



OLD-HOUSE
JOURNAL

MAY/JUNE 1993 • \$4
CANADA \$5


MAY/JUNE 1993 • \$4
CANADA \$5



Charleston Shutters

POST- HURRICANE REPAIRS

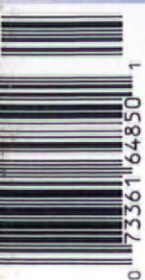
TECHNIQUES & TECHNOLOGY



Retaining Walls
Plank Houses
Wood Consolidation

Finishing Embossed Walls Lathe-Turning Stone

***** 5-DIGIT 94401
#M/E0014E096 6#30261Z C9
KEITH MEDERDO STA M/J 96
STAN MALEO #BAJZNM3





**DEWALT® BRINGS
THE CLEAN-CUT LOOK
TO POWER TOOL
ACCESSORIES.**

High performance and industrial quality. What you get from DeWalt power tools is available in a complete line of power tool accessories. They'll fit all major brands of power tools, and give them the extra power and precision you expect from DeWalt.

Take the DeWalt Thin Kerf Carbide Blade. It's as much as 25% thinner than standard carbide blades to ensure a fast, smooth cut. But unlike most thin kerf blades, its precision-ground carbide teeth and tempered plate will stand up to the most demanding jobs.

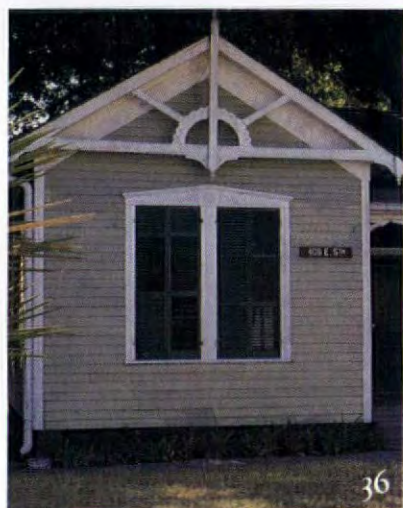
DeWalt® Accessories. They'll give your finished work just what it needs, the clean-cut look.

DEWALT®
GUARANTEED TOUGH.™



OLD-HOUSE JOURNAL

Volume XXI, Number 3



36

Houses Without Frames

A look at pre-20th century techniques for building with vertically and horizontally laid planks, and why these lesser-known — and sometimes hard to believe — houses were put together.

BY STEPHEN B. JORDAN

42

Charleston Shutters/Shutter Sourcebook

After Hurricane Hugo battered Charleston, South Carolina, a variety of polyester consolidant methods were used to repair historic shutters. In Part II, a review of the stylistic history, nomenclature, and maintenance for shutters, with sources.

BY ROBERT J. ALBRECHT & KURT HABEL

51

Lathe-Turned Stone

Learn how turning full-sized columns and balusters from solid stone on a homemade lathe is not only possible, but practical.

BY JACOB ARNDT

56

Anything Goes II

A further look at exterior paint colors for 20th-century Romantic Revival houses, this time highlighting answers for the "stucco question."

BY JOHN CROSBY FREEMAN

60

The Magic of Lincrusta

After a brief history about this unique material, decorative finisher Monnich shows how to make it masquerade as leather, metal, and other stunning surfaces.

BY JONI MONNICH

66

The House That Didn't Belong

When a formal Greek Revival building is wedged in a historic commercial alley, there's an old-house living mystery to be solved.

BY STEVEN JOHNSON



ON THE COVER: A shutter-lined breezeway connects this c. 1732 Georgian-style house to Church Street in the Charleston, South Carolina, Historic District. Photograph by Kelly Culpepper.

DEPARTMENTS

6 Editor's Page *"Power" Tools.*



PAGE 6

8 Letters

Sources for compo and tin corners, and uncovering original linoleum.

22 Ask OHJ

Preventing root invasion and where to find star washers.

PAGE 22



26 Good Books

A useful booklet on post-Victorian garden structures.

28 Outside the Old House *The basics for building retaining walls.*

34 Reading the Old House

Defining the difference between cottages and bungalows.

68 Restoration Products

Asphalt shingle roofing, traditional paint colors, and an Arts & Crafts wax polish.

74 Restorer's Notebook

Wallpapering with a paint roller and a third hand for hanging chandeliers.

76 House Plans *An I-house farmhouse, a Craftsman cottage, and outbuildings.*

98 Remuddling *Obtuse Addition*

100 Vernacular Houses *The Cumberland House of Tennessee*



PAGE 28

RESTORATION SERVICES, 86; EMPORIUM, 88; PRODUCTS NETWORK, 94; ADVERTISERS' INDEX, 97

Subscription service (800) 234-3797; Back issues (\$4.95/copy); (508) 281-8803; Advertising: (508) 283-4721. We are happy to accept editorial contributions to Old-House Journal. Query letters that include an outline of the proposed article are preferred. All manuscripts will be reviewed, and returned if unacceptable. However, we cannot be responsible for non-receipt or loss — please keep copies of all materials sent. ©Copyright 1993 by Dovevale Publishers. All rights reserved.



OLD-HOUSE JOURNAL

VOLUME XXI, NUMBER 3

EDITOR
Gordon H. Bock

ASSISTANT EDITOR
Lynn Elliott

CONTRIBUTING EDITORS
John Leeke
Sanford, Maine

J. Randall Cotton
Philadelphia, Pennsylvania

James C. Massey and Shirley Maxwell
Strasburg, Virginia

DESIGN DIRECTOR
Patrick Mitchell

DESIGN ASSOCIATE
Inga Soderberg

PRODUCTION ASSISTANT
Claire MacMaster

CIRCULATION DIRECTOR
Rosalie Bruno

FULFILLMENT MANAGER
Ellen M. Higgins

CUSTOMER SERVICE
Pamela Martin
Nanci Virgilio

NATIONAL SALES MANAGER
Becky Bernie

SALES ASSISTANT
Cassandra Smith

ASSISTANT TO THE PUBLISHER
Joanne Christopher

EDITOR-IN-CHIEF
Patricia Poore

PUBLISHER
William J. O'Donnell

Old-House Journal (ISSN 0034-0178) is published bimonthly for \$24 per year by Dovevale Publishers, The Blackburn Tavern, 2 Main Street, Gloucester, MA 01930. Telephone (508) 283-3200. Subscriptions in Canada \$34 per year, payable in U.S. funds.

Second-class postage paid at Gloucester, MA and at additional entries. POSTMASTER: Send address changes to Old-House Journal, P.O. Box 5807, Boulder, CO 80322-807.

Printed at the Lane Press, S. Burlington, Vermont

PRINTED IN U.S.A.



No. 704 Nouveau lavatory shown above with the No. 144 Deco faucet.



No. 805 Slipper tub shown above with the No. 423 hand-shower/tubfill unit. Brass, chrome or white porcelain feet.



No. 811 tub with solid oak ring, No. 424 tubfill/shower fitting and shower curtain ring, shown above.



No. 413 solid brass tubfill/handshower with 60" hose, shown at left.

NOTE: All Sunrise faucets are available in powder-coated solid brass, uncoated solid brass & chrome plate. Any handles may be used with any faucet.



No. 403 Classic tubfill., above.

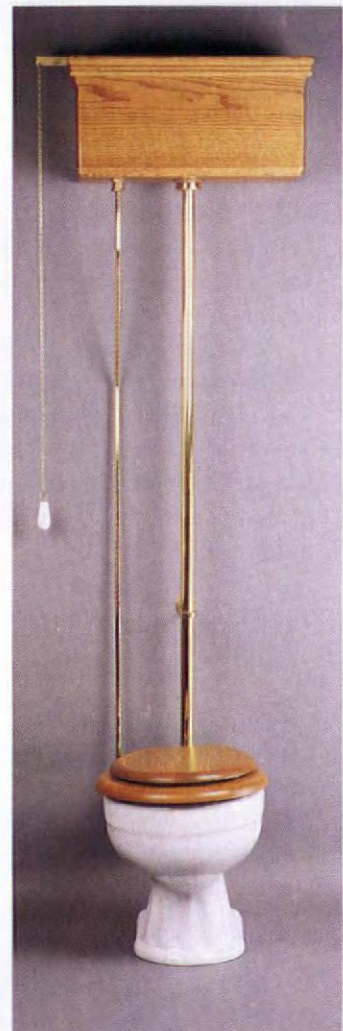


No. 121 Widespread faucet, above.

No. 401 In-Wall shower/tubfill with center diverter shown with No. 18 cross handles. Shown at right.



No. 806 double ended tub, shown above with solid brass feet.



No. 901 Classic Victorian Pull-chain Toilet above, with solid oak seat and tank.

SUNRISE SPECIALTY

5540 Doyle Street Emeryville
California 94608
Phone: 510-654-1794
FAX 510-654-5775

EDITOR'S PAGE

"Power" Tools



SOME FRIENDS OF MINE JOKE about their favorite "power" dress shirts. We've all got clothes like these. They're high-quality sweaters or suits or dresses that fit well and look great. Because these clothes are comfortable and sharp, they give us a special edge. We wear them when we want to look our best, on a job interview, say, or a date. I've got a few "power" shirts too, and for old-house work I've got certain "power" tools.

My "power" tools are the implements I rely on to produce a job with speed and precision. They're what I reach for when I have to do the work right the first time around — which is usually the case with tricky processes or final finishes. "Power" tools don't have to be expensive or mechanized (in fact, many of mine are old hand tools) and they often look the same as ordinary tools. Yet "power" tools deliver that same extra margin of performance as a "power" shirt. As they used to say in the Western movies, they're "big medicine."

To me, a razor/utility knife is a "power" tool, especially when it has a new blade. Though designed for wallboard and carpet, this tool is so keen I use it for cutting and shaping light or thin woods, as well as scoring lines and taking out an occasional small screw. My sharpest chisels and planes are also "power" tools. Because the steel hones well they're easy to use, and because they don't dull rapidly I work more efficiently. Their effect is kind

of like wearing ten-league boots.

Another "power" tool is a top-of-the-line paintbrush. It will cut edges perfectly without any masking and spread paint or varnish silk-smooth with nary a bristle-mark. A properly balanced hammer, of course, is every-



"Power" tools — the ones with that special quality — give more to a job.

body's "power" tool. At an early age most of us realize the uncanny concentration of force and accuracy the right hammer brings to driving, shaping, or just tapping.

Not that "power" tools can't run on electricity or air — far from it. On many outdoor projects, I find my battery drill is my ever-present assistant. It bores holes, drives and removes screws, and tightens nuts; it is light, strong, goes anywhere, and never quits

on the job. The fact that it makes all these operations possible when I'm up a ladder or in an outbuilding enhances my ability to get things done. A well-tuned table saw qualifies too. A saw that is "right-on" every time makes rips that are clean and true and cuts miters that fit together at a precise angle without gaps. Moreover, it is safer to use. Fighting the work because the blade binds, or going back over a cut at close quarters to make it right, is an invitation to injury.

In this Techniques and Technology issue, the focus is on specialized methods for manipulating wood, stone, and paint. These three materials are found in almost every old house, but here we look at how they have been — and still can be — utilized in extraordinary ways: using planks to build houses, for example, or turning stone to make columns, or enriching lincrusta and stucco with paint.

Seeing an above-average project through to completion means developing new skills and getting the most from the materials you're working with, especially the tools. Tools that perform well not only make the job easier and produce a better product, they're essential if craftsmanship is to reach its highest levels. Take care of your "power" tools, and they'll take care of you.

Golden Rule

the standard of quality since 1860

SCHWERD'S

wood columns



No. 140 Scamozzi



No. 141 Roman Ionic



No. 142 Greek Ionic

COLUMNS

—Schwerd columns are durable. Our 120+ years of experience in manufacturing wood columns has proven that the durability of a wood column depends upon the strength of the joint and the quality and thickness of the wood. Schwerd column construction was developed to meet each specific requirement. The wood is thoroughly seasoned Northern White Pine. The pride of craftsmanship and skilled techniques acquired by 120 years of specialized experience is applied. The resulting product is a "Schwerd Quality Column" specified by architects with complete confidence. Both standard and detail columns can be furnished from 4 in. to 50 in. in diameter and up to 35 ft. in length with matching pilasters.

If you are one of our old customers during the many



No. 150 Roman Corinthian



No. 152 Temple of Winds



No. 144 Modern Ionic

years since our beginning in 1860, you know our product; if not, send us your inquiries and orders and join our list of satisfied customers. ■ **SEND FOR OUR FREE CATALOG** ■ Schwerd's complete aluminum bases for 8, 10, 12, 14, 16, 18, 20,

22, 24, 26, 28, and 30 in. dia. columns.

Schwerd's-Aluminum ventilated plinth and aluminum turned member base are manufactured of thick metal and are recommended for all exterior columns in the above diameters to provide a maintenance-free, seamless base which is guaranteed against deterioration for a lifetime.



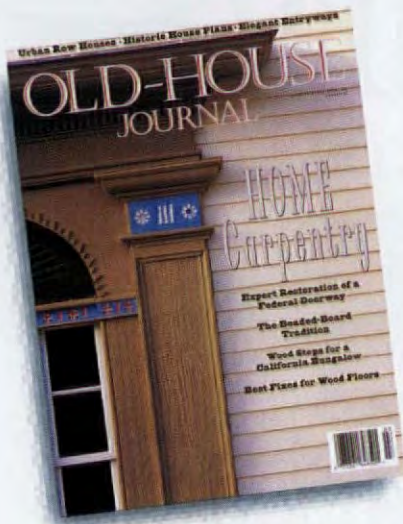
A. F. SCHWERD MANUFACTURING COMPANY

telephone: 412-766-6322

3215 McClure Avenue

Pittsburgh, Pa. 15212

LETTERS



Patina Preservation

Dear OHJ

WE READ WITH INTEREST THE ARTICLE "Beaded Boards" by Liz Pritchett in the March/April 1993 issue. When the discussion turned to preserving the patina, we sat up and paid attention. We have a house full of 80-year-old beadboard with some damaged boards and new woodwork additions. The old "orange" varnish has aged to a very dark orangey-brown. Stripping and revarnishing the whole interior, including the beaded wainscoting, is not a prospect we relish. [We're trying to figure out] how to keep the drudgery to a minimum — there's enough already — and still come out with uniform finishes throughout the house.

— KEN AND PEGGY LINDOW
Houston, Texas

Look for an article on blending old and new woodwork in 1994.

— THE EDITORS

Returning to Traps

I ENJOYED YOUR ARTICLE "A LESSON IN Traps" in the September/October 1992 issue. Enclosed is a photo of a P-style trap found in the basement of our old house. The top of the trap is inscribed: The Meyer Sniffen Co., LTC. It has been removed, cleaned up,

and will be reinstalled as soon as I find time to complete other repairs necessary to the waste system.

— CHUCK DIEHL
Alameda, Calif.

An Old-House Addict

I JUST RECEIVED THE OHJ YEARBOOK SET (1980-1989) with great glee and have spent the last week devouring them. (Although I was very disappointed to find that the 1983 yearbook was sold out.) Every time I hit a problem with my lovely bungalow, I turn to your excellent magazine and usually find an answer. Thanks for the help and encouragement that you give to all of us old-house addicts.

— CHRISTINE HODGSON
Edgefield, South Carolina

Kudos on Compo

WHAT A DELIGHTFUL SURPRISE TO FIND composition ornament on the cover of the January/February issue. While we have always felt pride in the variety and versatility of these pieces, it is sometimes difficult to convince others.

Five years ago, we discovered many stored boxes of unused wood compo-

sition, which was made by John Walters and Sons in Kitchener, Ontario, during the 1920s and '30s. Since a catalog didn't accompany our find and there was little order inside the boxes, each newly opened box yielded wonders. I am still in awe of the intricate detail to be found on these mouldings.

We have seen all but one of your cover pieces. Our customers have used the stock for everything from ceiling ornaments to jewelry and Christmas decorations. So here's an addition to your suppliers list: Artefacts Architectural Antiques, 17 King St., St. Jacobs, Ontario, Canada N0B 2N0; (519) 664-3760.

— CHRIS BLOTT
Artefacts Architectural Antiques
St. Jacobs, Ontario

Cat Trap

WE MISSED YOUR REQUEST FOR "CAT Tales," but were struck by the cat-in-the-eaves adventure as a variation on ours. When my father-in-law died, the search for his very "scaredy-cat" Bert was fruitless. Only by moving the cat food daily was my husband, Peter, able to determine that the attic was his



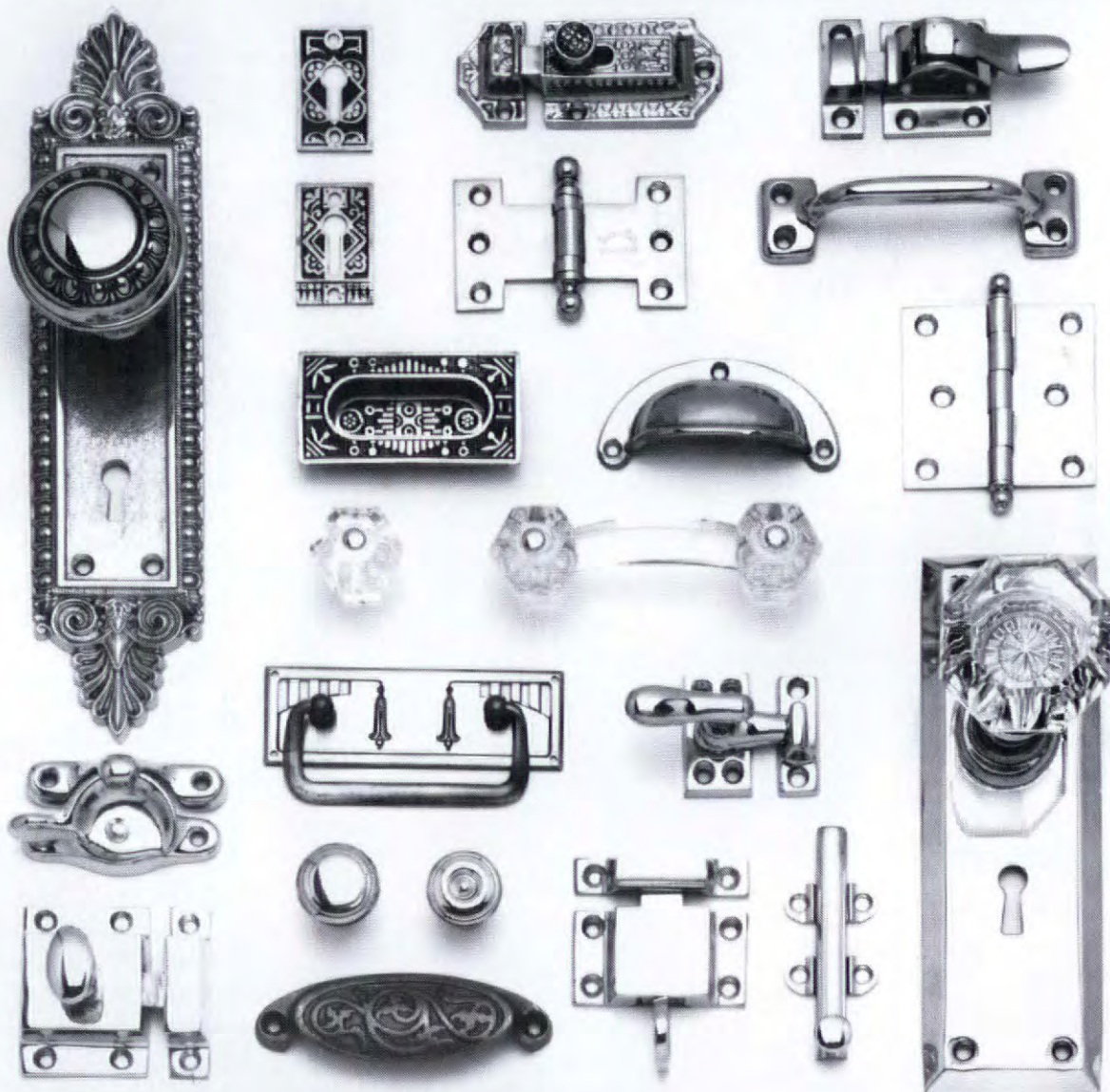
First patented in 1886, this P-style trap is still in working condition.

Since



1916

Crown City **HARDWARE CO.**



Restoration Hardware

WE OFFER THE MOST COMPLETE SELECTION OF RESTORATION AND DECORATIVE HARDWARE AVAILABLE TODAY. OUR COLLECTION CONTAINS ALL PERIODS AND ALL TYPES OF HARDWARE FOR DOORS, WINDOWS, CABINETS, AND FURNITURE. OUR PRODUCTS ARE MADE FROM ONLY THE FINEST QUALITY MATERIALS INCLUDING BRASS, IRON, CRYSTAL, PEWTER, AND NICKEL. WITH OVER 227 PAGES CONTAINING OVER A THOUSAND HARDWARE PIECES, IN ADDITION TO 17 PAGES OF RESTORATION AND PRODUCT INFORMATION, OUR CATALOG IS THE MOST THOROUGH RESOURCE OF ITS TYPE. VISIT OUR SHOW ROOM, OR TO OBTAIN THE CATALOG, SEND *\$6.50 TO:

CROWN CITY HARDWARE CO., 1047 N. ALLEN AVE. DEPT. J 93., PASADENA, CA 91104

*Please allow 6-8 weeks for delivery.

**Something old ...
Something new ...
from Vande Hey-Raleigh.**



In response to customer demand, the cold weather tile experts have developed a startling new architectural roof tile guaranteed to perform as admirably now as it has since its introduction many years ago.

The new STAGGERED roof tile perfected by us is a replication of a tile used way back when . . . only much better because of our unique manufacturing and installation procedures.

The STAGGERED roof tile is available in our shake, slate or brush tile series in any of 20

standard colors or custom colors to match ANY REQUEST . . . no matter the age of the tile.

Our roof tiles are like NO other. NO maintenance. NO growth. NO creatures or bugs can live on/among them. And NO fire. Ever. Concrete can't burn.

The mid-west's tough weather is easily tamed by our tiles. No worries — ever — about freeze/thaw cycles. And, only our roofs complete any building statement. We are perfection.

Call or write for free catalogs and installation manuals.

VANDE HEY  **RALEIGH**

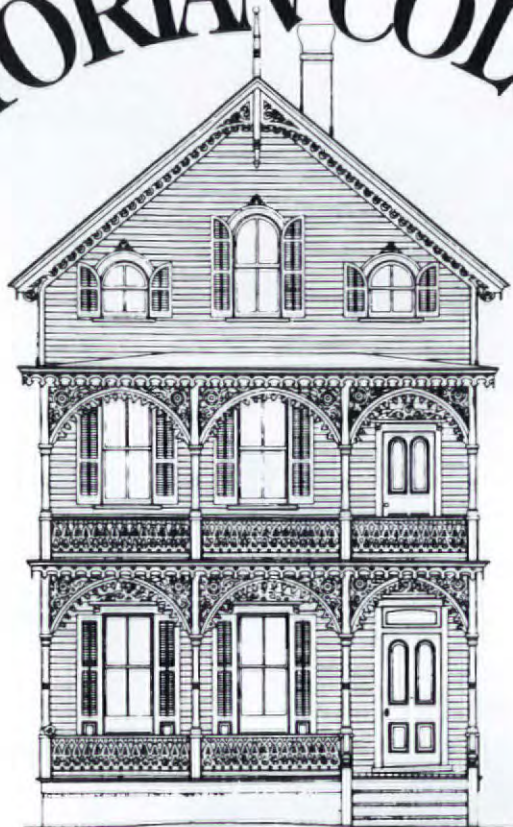
1665 Bohm Drive

Little Chute, WI 54140

414-766-1181

EXCLUSIVE!

VICTORIAN COLORS



FROM

FULLER-O'BRIEN PAINTS

The essence of colors in their dramatic yet subtle tones have been captured in the exclusive palette of 70 distinctive hues representing the Cape May Victorian Color™ presentation.

Available now in both exterior and interior finishes from velvet flat to sparkling gloss.

Nostalgia is right for you... for restoration or proven color styles to highlight your contemporary home.

The *past* has never been so *modern* with Victorian colors from Fuller-O'Brien.



FULLER O'BRIEN PAINTS
South San Francisco, CA 94080
South Bend, IN 46628

LETTERS

home. Since his brother had agreed to adopt Bert (if he could be caught), the chase was on. Peter cut a trap door in the closet, set up a trip wire attached to the cat box, and secured all eave access. The next day, the box was tripped and the door was closed, but there was no Bert. After installing a slide bolt that went from the bottom of the trap door to a drilled hole in the floor, the line was tripped again and Bert was found cowering in the closet corner. We delivered him to his new home where, at 16, he has adjusted to a new social life.

— THERESE KLAUSER
Berwyn, Ill.

Catty Comment

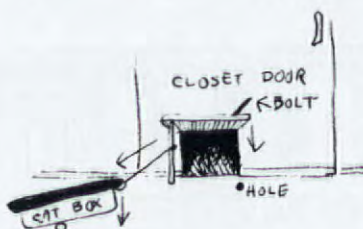
CAT TALES? WHAT IS THIS FLUFF? I subscribe to your publication for infor-

mation on old houses. If I wanted to see cat stories, I would subscribe to a pet "throw-away" magazine.

— NAME UNREADABLE
St. Louis, Missouri

Healing Peeling Ceilings

YOUR MAGAZINE IS A GREAT HELP IN maintaining my vintage 1909 Prairie-style home. The January/February



An illustration of the elaborate "cat trap" devised by the Klausers.

article on peeling ceilings was put into service when a 3' section of the entryway's calcimine ceiling fell off during heavy rains. Wind-driven rain allowed moisture into the house via a roof-mounted evaporative cooler. Using the steamer method you described, removal of the calcimine coat was completed in one day by two people. The cracks were then repaired and sanded. After using a sponge to dapple on the paint, the texture was restored. Results? Great!

— NELLE LETHERS
Riverside, Calif.

Linoleum Uncovered

IN 1987, MY HUSBAND AND I PURCHASED an American Foursquare built in 1910. We had just received the Septem-

L I N C R U S T A[®]
A N A G L Y P T A[®]

EMBOSSED WALLCOVERINGS

Made in England since 1877, these luxurious papers provide a tasteful and practical alternative to more conventional wall treatments. Over 75 different patterns for walls, ceilings, wainscots, and borders. Easy to install, they accept a wide variety of finishes. Pattern book provided for a modest deposit. Color brochure on request.

Architectural binder: \$15.

1-800-522-7336



HARDWARE+Plus, Inc.
701 E. Kingsley Road • Garland, TX 75041





BY APPOINTMENT TO H.M. THE QUEEN
MANUFACTURERS OF PAINTS & WALLCOVERINGS
CROWN BERGER LTD. DARWEN, LANCs.

THE FINISHING TOUCH CONTEST

Presented by

Crown Berger Ltd. / Old-House Journal

Grand Prize: a Trip to England

Join our British Celebration

Have you restored your house, renovated a room, installed a ceiling, dado, or frieze using the embossed wallcoverings from England called Anaglypta® and Lincrusta®?

If the answer is Yes, then the Old House Journal and Crown Berger Ltd. exclusive manufacturer of Anaglypta® and Lincrusta®, invite you to enter THE FINISHING TOUCH, a competition celebrating these historical British wallcoverings.



A Brush Up in British History

Discover historic Britain yourself. VIRGIN ATLANTIC AIRWAYS will fly you and a friend round-trip to London on its award-winning non-stop 747 service from New York, Boston, Miami, Orlando or Los Angeles. Then spend 2 nights (Bed and Breakfast) at the luxurious Welcombe Hotel & Golf Course at Stratford-Upon-Avon, a magnificent Jacobean-style building that is situated on property that once belonged to William Shakespeare.



THE FINISHING FORMULA

To enter, please submit the following:

1. Slide(s) or photograph(s) of residential installation featuring Britain's renowned embossed wallcoverings.
2. Name, address and telephone number.
3. Date installation was completed.
4. Materials used and recipe techniques.
5. Name of designer and/or architect if applicable.

Completed entries should be mailed to: **THE FINISHING TOUCH**, c/o Old House Journal, 2 Main Street, Gloucester MA 01930 and must arrive by Friday, June 18, 1993. Winners will be announced in the September/October issue of Old House Journal.

Installation can feature the wallcoverings in either a historical context or a modern adaptation. Criteria includes the appropriateness of the installation, quality of design of the restored area and finishing techniques. Installations are not limited to one room. Entries will be judged by a panel of experts including a well-known decorator, a historic interiors expert and an Old House Journal editor on Monday, June 21.

CONTEST RULES

- Judge's decision is final.
- All travel arrangements subject to availability. Winner responsible for transportation to nearest Virgin Atlantic U.S. Gateway City. Other restrictions may apply.
- Employees of Crown Berger Ltd, Old House Journal, Virgin Atlantic or related Agencies are not eligible for entry.
- One submission per person is permitted
- Old House Journal reserves the right to print submitted material.
- Entrants must be 18 years of age or older.

LETTERS

ber/October 1992 issue when we began to remove two of the cupboards in our kitchen. Once removed, we discovered a section of the original flooring remained underneath the cupboard. Imagine our excitement at this discovery! The small portion that we uncovered looked almost identical to the photos of sample flooring that were included in the "Linoleum" article. Enclosed is a photo of what we found. This is the first time during our renovation that we have discovered any evidence of what a room might have looked like. Unfortunately, except for the woodwork being in almost original condition, there was little left to tell us about how



A c.1910 piece of inlaid geometric linoleum is uncovered behind a cupboard.

each room may have looked. OHJ consistently keeps us going as we restore our home to its original splendor.

— SUSAN LALLI-ASCOSI
Kennett Square, Penn.

Brits Light the Way

IN 1980, WE WERE LUCKY ENOUGH TO find (at a reasonable price) an antique Bristol crystal chandelier large enough for the dining room. Unfortunately there was one piece missing. This was a curved, barley-twist rod with a shepherd's crook end, which is common in crystal fixtures. What made it unusual was the reverse curve in the stem — the shepherd's crook spiral curved up and inward instead of down and outward. We checked every local source for crystal parts. No one had ever seen such a piece, much less a replacement.

Last Spring, on a trip to London, we decided to spend some time tracking chandelier parts. Eventually, we

A style that's never out of date



the old "tin" roof...traditional charm and beauty

The old "tin" roof never grows old in style... just in the generations of service it gives. Its charm is ageless, its popularity with architects and builders in both new and remodeling projects has remained strong.

The tin roof...it's actually terne metal manufactured by Follansbee Steel... will give your house a long-lasting and traditional charm not possible with other roofing materials. We'll be happy to send you additional information.

Painting Terne

Terne must be painted immediately after application according to specifications. The first coat is to be TerneCote I, the primer, followed by a finish coat of TerneCote II. Follansbee manufactures TerneCote and it is available in 11 standard colors. It can be purchased through your local distributor or from Follansbee Steel.

For more information, call us toll-free
800-624-6906

FOLLANSBEE

FOLLANSBEE STEEL • FOLLANSBEE, WV 26037
FAX 304-527-1269

OUR PRODUCTS CAN'T BE BEAT



... neither can our prices.

FREE CATALOG



RENOVATOR'S



Everything For Today's Homes For Less!

For our **FREE CATALOG** call or write
Renovator's Supply, Renovator's Old Mill, Dept. 9598
Millers Falls, MA 01349
Call us at: **1-800-659-2211**

Name _____

Address _____

City/State/Zip _____

Telephone _____

LETTERS

were directed to George and Peter Cohn, a firm specializing in the sale and restoration of antique chandeliers. The Cohns were most helpful, but could not supply the missing piece. However, they directed us to Blue-Crystal (Glass) Ltd. This firm has made a new replacement of the missing arm using a photocopy of an original for size, shape, and curvature. The new arm is an excellent piece of work. The cost was substantial, but the investment saves a valuable antique fixture.

I believe that your readers would be interested in both companies. Their addresses are: Blue Crystal (Glass) Ltd, Units 6/8, 21 Wren St., London, WC1X 0HF England; (071) 278-0142, and George and Peter Cohn,

Unit 21, 21 Wren St., London, WC1X 0HF England; (071) 278-3749.

— WILLIAM M. WORDEN
Detroit, Mich.

Cornering A Market

IN A PREVIOUS ISSUE [JANUARY/FEBRUARY 1992], "Ask OHJ" answered a question about galvanized tin corners for cedar lap siding. Coach House in Arthur, Illinois, was the company. I contacted them and was [told] that Tool World had bought the machinery. So I subsequently made contact with Tool World.

I needed a tin corner for $\frac{3}{4}$ " x 10" western red cedar siding installed with 8" exposure. Numerous calls did not produce a correct product.


I turned for help to a local lumber

yard and found that with an order of many thousands of pieces (mine was a small order of 100 pieces) the correct corners could be obtained. Should anyone need a small quantity of these hard-to-find corners contact Rick at T & S Lumber, 21600 Miles Rd., North Randall, OH 44128; (216) 662-1100.

Keep up the flow of information OHJ!

— DAVID GOLDMAN
Gates Mills, Ohio

CORRECTION: In the article "Beaded Boards" [March/April 1993], the craftsman identified as Paul Kebabin in the photos was actually Woody Scoville.



Hand crafted period cabinetry. Call or write for the nearest sales representative. Design portfolio available for \$10.00.

The KENNEBEC Company

Telephone 207-443-2131 Designers & Cabinetmakers One Front Street Bath, ME 04530



ANGLYPTA® & LINCRUSTA®

Authentic embossed, paintable wallcoverings. Easily applied and reasonably priced. Excellent hiding ability: a perfect renovation product. Over 85 wall, ceiling and border patterns from which to choose.

For Local Sources Call:

Bentley Brothers
2709 S. Park Road
Louisville, KY 40219
800-824-4777
(In KY 800-828-0271)

Classic Ceilings
902 East Commonwealth
Fullerton, CA 92631
800-992-8700

**Fein "Triangle"
Sander Eliminates
Hand Sanding
Now At New Low Price!**



With the NEW Fein "Triangle" Sander, time consuming, sore finger, bloody knuckle sanding is a thing of the past.

Imagine using a power tool to sand all those areas where before, you had to fold up a piece of paper and "finger sand."

You know all those difficult to sand areas; inside & outside edges, closed corners, coves, spots, glue marks, seams, moldings, intricate profiles and so on.

With the Fein "Triangle" Sander, you can sand right up to, into and along edges & corners without dulling the edge or altering the profile.

How it works

Unlike ordinary sanders, the Fein "Triangle" Sander doesn't rotate. Instead it "oscillates" (a back and forth movement) at a blurring 20,000 times a minute. The movement is only 1° from side to side at the tips of the pad.

New Low Price

We've gotten the price down as low as possible, with a new list price of only \$275! (It was \$365.00 in 1992).

The Fein "Triangle" Sander takes the drudgery out of hand sanding and frees up hours of your valuable time.

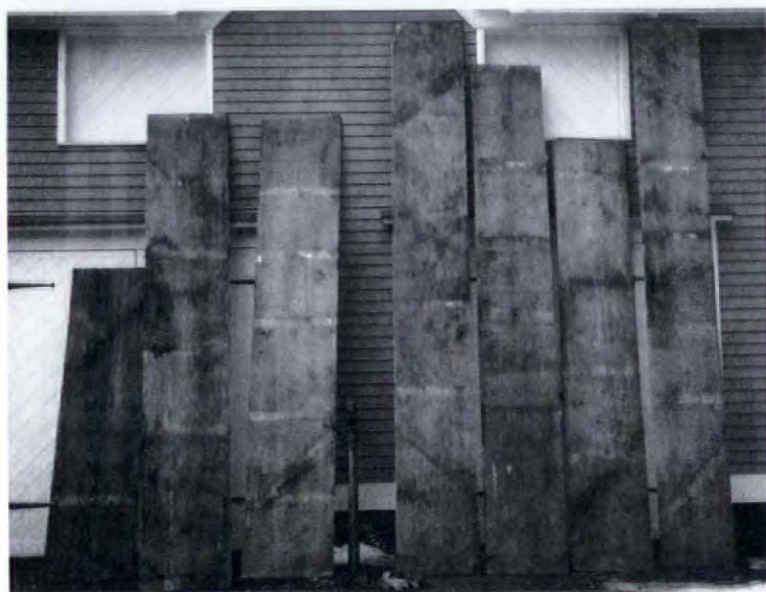
It's easy to get more information, simply call:

**800-441-9878
FEIN Power Tools Inc.
3019 W. Carson St.
Pittsburgh, PA 15204**

©Fein Power Tools, Inc. 1993



ANTIQUE WIDE PINE FLOORING



Largest inventory in the Northeast.

Antique Pine up to 27" wide • Antique Oak up to 20" wide

Antique Chestnut up to 20" wide

Heart Long Leaf Yellow Pine 14" wide

Panelling, doors, wainscoting, antique hand hewn beams, complete antique houses and barns available.

Antique Oak & Chestnut

For price lists, call

**North Fields Restorations, Rowley, Mass
(508) 948-2722**

Free Polishing, Plating or Lacquering

Send us one of your hinges, doorknobs or window hardware, no matter what condition. We'll strip, polish, replate (with brass, nickel or chrome) or lacquer one sample piece of your hardware (even one coated with paint) FREE just to introduce you to our custom metal refinishing service. Mail or UPS your piece, plus \$2 for return shipping. We're certain you'll find us perfect for your older home.

Call us about plating registers, plumbing fixtures, lamps & chandeliers.

Strassen Plating

*3619 Walton Ave. • Cleveland, Ohio 44113 • Phone or FAX (216) 961-1525
Hours 8am-8pm*



Bright Ideas.

Brilliant new offerings from **HARDWARE+Plus** include entry and interior door sets, cabinet pulls and latches, hooks and accessories.

Classic form and modern function harmonize beautifully in solid, polished brass.

Door sets fit both mortised and pre-drilled doors... equally suited to restoration and nostalgic applications.

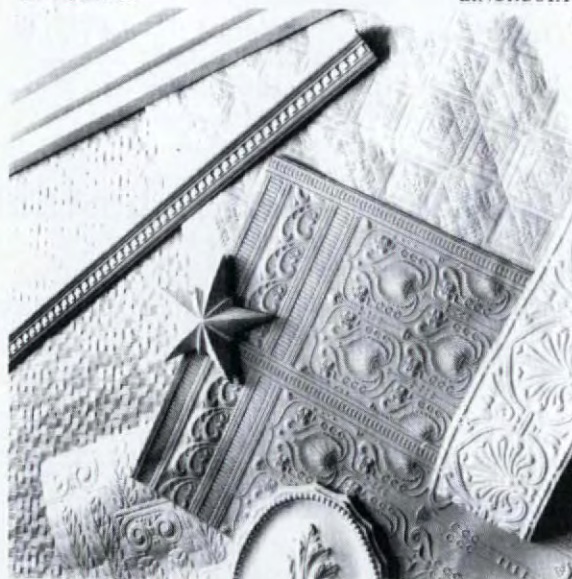
Available for a limited time at a savings of 25%.

Call 1-800-522-7336
for a free brochure.
Reference ad: 593

H **HARDWARE+Plus, Inc.**

ANAGLYPTA®

LINCRUSTA®



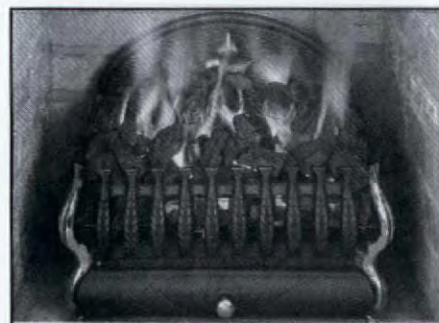
EMBOSSED-RELIEF WALLCOVERING
ARCHITECTURAL ORNAMENTATION

CROWN CORPORATION, NA

Mile Hi Crown Inc.

THE DESIGN CENTER AT THE ICE HOUSE
1801 Wynkoop Street • Suite 235
Denver, Colorado 80202

(800) 422-2099 FAX (303) 292-1933 (303) 292-1313



Authentic English Gas Coal Fires

THE ULTIMATE FIREPLACE EXPERIENCE
IS NOW AVAILABLE IN AMERICA!

- Perfect for giving Historic Homes the authentic coal fire look and heat.
- Burns energy efficient natural gas or propane; easy installation and use.
- Elegant cast iron grate craftsmanship.
- Many different styles and sizes to fit any chimney. Starting at 16" tapered.



CALL OR WRITE FOR FREE COLOR BROCHURE:
P.O. Box 351 • Athens, Georgia 30603
(PH) 706/353-8281 (FAX) 706/353-8312

VINTAGE WOOD WORKS

Many Years Ago we announced
"The Renewed Availability" of our
solid wood Victorian & Country
Architectural Details!

Over the Years ... you've
asked for related items, such as
our complete in-stock selection of
interior & exterior **TURNINGS**.

We Added ... Quality Posts,
Balusters, Railings, Finials,
Newels, et cetera, as
shown in our latest

**ILLUSTRATED
OLD-FASHIONED
MAIL ORDER
CATALOG**

**\$2. BY RETURN
MAIL**

(includes: Spindles, Signs,
Cut Shingles, Shelves,
Headers, Corbels, a
Gazebo, plenty
of How-To's,
& much
more!)

GABLE DECORATIONS

were an instant success when we
began offering many designs to fit any
standard roof pitch. Easy ordering is fully
explained in our Catalog.

Over the Kitchen Sink ...

became a choice location as
our custom-length **SPANDRELS**
brightened your kitchens, bedrooms,
baths, parlours, dens, foyers, & porches.

Plain Cased Openings?

Not since you discovered our
multitude of handcrafted
BRACKETS & MOULDINGS!

... And Windows?

Convey your romantic
outlook with our custom-
length **CORNICES**.

**WE TAKE GREAT
pride in our work, &
we GUARANTEE
your happiness!**

**SOLID WOOD
PROMPT SHIPMENT**

We love "bringing back yesterday
in quality & service!"

Thanks for all the wonderful years!!

The Folks at
VINTAGE WOOD WORKS
Hwy. 34 • Box R, #2486
Quinlan, TX 75474

©VWW 1991



A Stroke Of Brilliance™

*Authentic
American colors
look fresh &
natural today*

*Quality finishes in historically
inspired colors from Benjamin
Moore Paints.*

Inside: Choose authentic historical colors for walls, trim and accents that reflect the dignity and warmth of past generations. Use them naturally, in traditional or colonial settings, or as inspiration for your own style. *Outside:* You'll find documented 18th & 19th century color combinations that restore the charm of yesterday, with finishes formulated to provide maximum protection today.

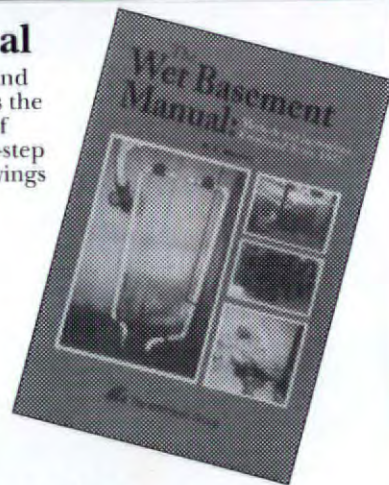
See your Benjamin Moore dealer for courteous service & expert advice, to help you create a personal look that is historically correct.

Solve Your Damp or Flooded Basement Problems!

The Wet Basement Manual

In this easy-to-read 62-page book, New England construction contractor A. E. Maurice shares the lessons he's learned during nearly 50 years of working as a water control specialist. Step-by-step instructions and full-page easy-to-follow drawings cover such topics as:

- Leaking basement windows
- Leaks around fireplaces
- Inside vs. outside drain systems
- Sump pump chambers
- Dry wells
- Leaking walls in finished basements
- Different foundation materials
- Installing French drains



Order Your Copy Today. Only \$14.95 (plus shipping & handling)

Call Toll Free 1-800-323-3550, ext. 219

Have your VISA, MasterCard, or Am/Express card ready,
or write Customer Service, requesting an Order Form.

Guarantee: If you are not satisfied, return book to us within
15 days and your money will be refunded.

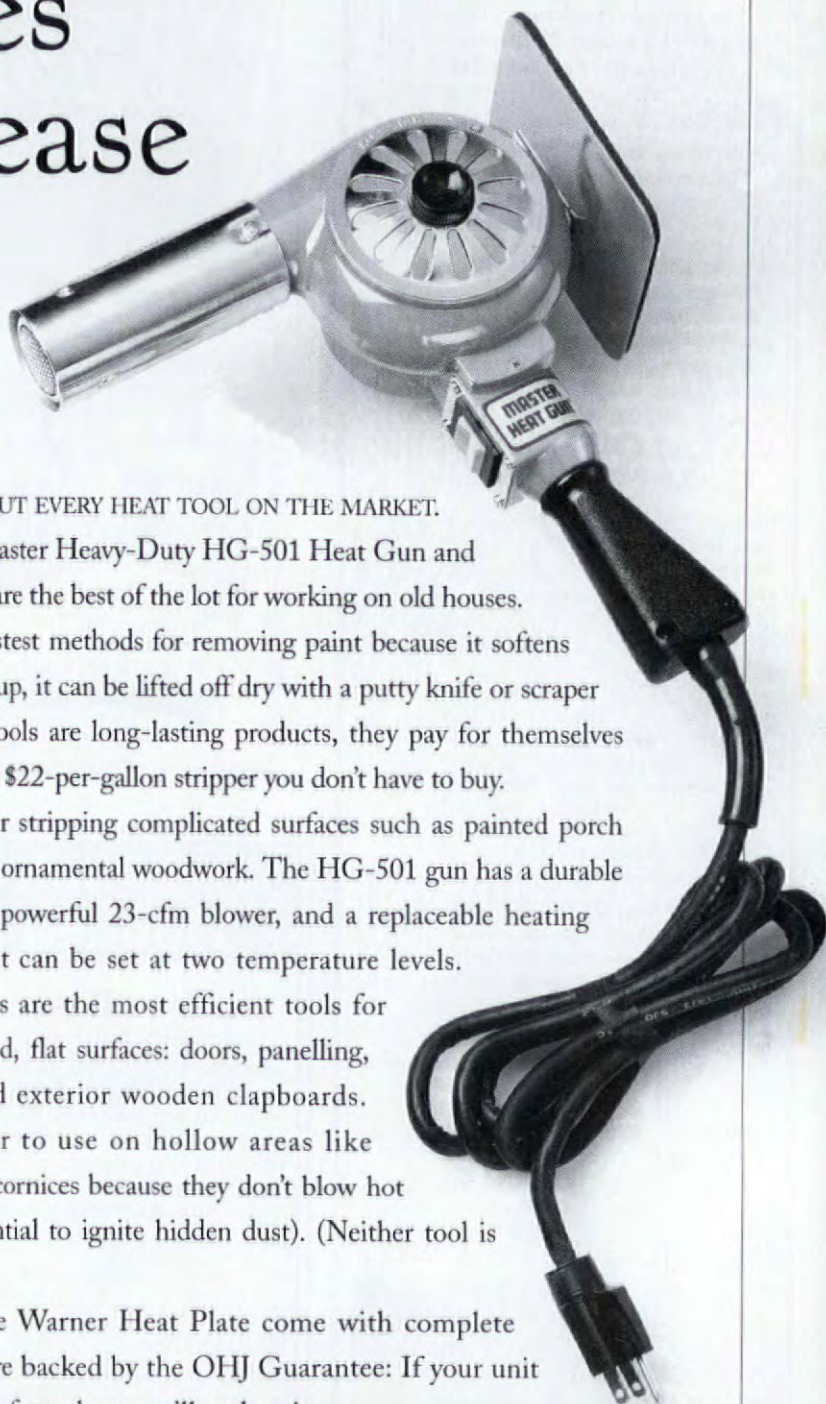


The Aberdeen Group

426 S. Westgate Dr., Addison, Illinois 60101
Telephone: 708-543-0870

MO-29

Sometimes elbow grease just isn't enough.



WE'VE TRIED JUST ABOUT EVERY HEAT TOOL ON THE MARKET. In our opinion, the Master Heavy-Duty HG-501 Heat Gun and the Warner Heat Plate are the best of the lot for working on old houses.

Heat is one of the fastest methods for removing paint because it softens many layers at once. As the paint bubbles up, it can be lifted off dry with a putty knife or scraper as you move along. And because these tools are long-lasting products, they pay for themselves when you consider the savings on \$18-to \$22-per-gallon stripper you don't have to buy.

Heat Guns come in handy for stripping complicated surfaces such as painted porch parts, mouldings, or other ornamental woodwork. The HG-501 gun has a durable aluminum body, a powerful 23-cfm blower, and a replaceable heating element that can be set at two temperature levels.

Heat Plates are the most efficient tools for stripping broad, flat surfaces: doors, panelling, baseboards, and exterior wooden clapboards.

They're also safer to use on hollow areas like partitions or exterior cornices because they don't blow hot air (which has the potential to ignite hidden dust). (Neither tool is recommended for removing varnish.)

Both the Master Heat Gun and the Warner Heat Plate come with complete operating and safety instructions, and are backed by the OHJ Guarantee: If your unit should malfunction within two months of purchase, we'll replace it.

Use the order form to purchase either or both heat tools. The HG-501 Heat Gun costs \$89.95; Heat Plate, \$59.95.

OLD-HOUSE
JOURNAL

Wood Restoration System



This rotted – and irreplaceable – woodwork...



...can be easily and permanently restored...



...sanded, nailed, stained or painted.



10" rotted bottoms of these load-bearing columns...



...were completely sawed off and replaced with...



...WoodEpox, which outperforms and outlasts wood.

The New Standards To Restore & Replace Wood

Specified by the U.S. Government, national restoration centers, museums, architects, contractors and other professionals, Abatron's restoration materials handle virtually any wood repair problem. Results are guaranteed by years of incredible performance and our service.

LiquidWood®

Deep penetrating wood consolidant. High-strength and strong adhesion, clear, transparent, low viscosity. Regenerates and waterproofs wood by hardening after penetrating. Can be brushed or poured on. Ideal for rotted windowsills and frames, columns, doors, furniture, sculptures structural and decorative components of any size in/outdoors.



WoodEpox®

The most versatile, STRUCTURAL & decorative wood substitute & no-shrink adhesive putty used in any thickness to replace, repair, extend or fill wood and other materials in structures, frames, furniture, boats, components, sculptures, in/outdoors. Can be sawed, nailed, planed, stained, painted. Often stronger than the original, unaffected by water, weather and termites. A NEW STANDARD IN WOOD RESTORATION.



Abatron's 5-can Wood Restoration Kit contains LiquidWood A and B, WoodEpox A and B, and Abosolv solvent.

Available in pint, quart and gallon sizes.

VISA, MASTERCARD, & AMERICAN EXPRESS ACCEPTED



Call 1-800-445-1754
IN ILLINOIS 708-426-2200



ABATRON, INC.

33 Center Drive, Dept. OHJ, Gilberts, Illinois 60136

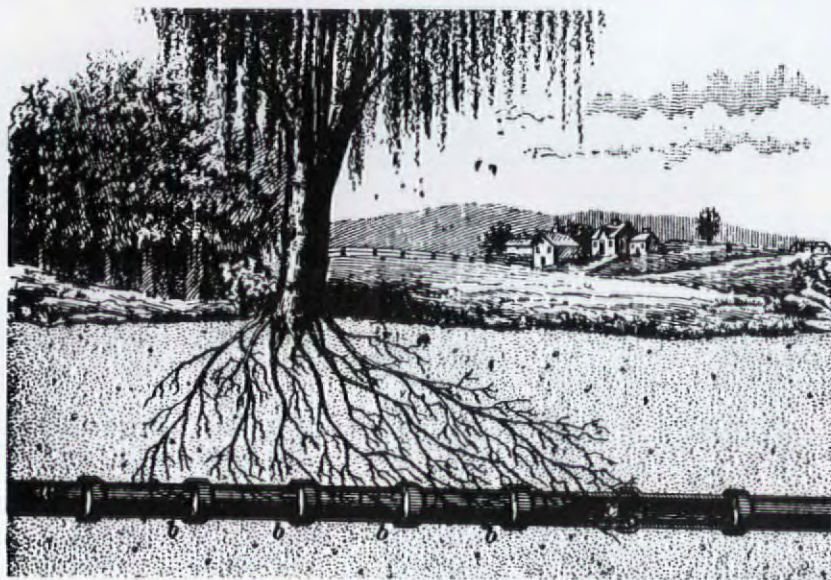
Since 1959, manufacturers of: Structural adhesives and sealants
Protective and waterproof coatings – Seamless floors – Grouts for pitted and spalled surfaces
Terrazzo systems – Expansion joints – Anchoring grouts for posts, precasts and structures
Underwater patching compounds – Resins for fiberglass and composites
Caulks – Crack injection resins

ASK OHJ

Root Invasion

Q OUR 1883 HOME IS HAVING A sewer crisis. Heavy roots from five ancient maple trees have invaded our vitrified-clay system. We have had many sewer-rooter jobs and have flushed with a root-kill product containing copper sulfate. To our dismay nothing works more than a few months. Because sewer replacement is expensive, we are looking for alternatives. Will chemicals work if used often? Is our only other option to take our trees down?

—BOB AND LAURA KOZMOUD
Sheboygan, Wisconsin



Tree roots grow towards water sources and can find their way into earthenware drain pipes through deteriorated joints.

A YOUR PROBLEM IS NOT THE trees, but old drain pipe with deteriorated cement sealing the joints. Flushing often with chemicals may keep the roots in check, but the cost and inconvenience will continue to add up. Even if the root invasion is eventually stopped, the leaky pipe can clog with sand and mud. Better to replace the earthenware pipe with PVC, which is virtually impenetrable to tree roots. Replacement runs from \$500 to a few thousand dollars, depending on the length of the line and the type of soil. If a backhoe in your yard is objectionable, the line can be dug by hand (which takes longer but costs about the same). Tree removal is expensive, too, and sacrifices the maples without guaranteeing a fix. Root growth may continue for years after the trees are gone.

the opposite side and connects to an identical washer to keep the side walls from kicking out. I believe reproductions of these washers are still available, but have not been able to locate them. Can you help?

—ALLAN LOUERING
Greenland, New Hampshire

A THESE TERMINALS, ALSO CALLED wall washers, star anchors, and tie-rod ends, were part of original structural design systems used through the early 1900s. Usually cast iron or wrought iron, they were made in a variety of local decorative designs — some as elaborate as starfish — and often ornamented with initials or building dates.



A star and tee anchor device.

When used for repair, their bearing surface is not great (and therefore of dubious value on masonry buildings), but they can be very attractive. A good source for reproductions is G. Krug & Son, Inc., 415 West Saratoga Street, Dept. OHJ, Baltimore, MD 21201; (410) 752-3166. Manufacturers since

1810, this forge uses 15 original patterns, including 5-point and 6-point stars, diamonds, circles, and sunbursts, and can also duplicate a customer-supplied piece. Their washers range in size from 8" to 20". Prices range from \$20 to \$85.

Pressing Information

Q I HAVE BEEN TOLD THAT THE designs on our cherry interior woodwork were pressed in with a roller after the wood was soaked in water. Can you tell me anything about this material? It's not common in our area and may have been imported by the Swiss man who built our home.

—DONNA AYER
Rockport, Ind.

A EMBOSSED MOULDINGS ARE machine-made "carvings" that have been common in millwork catalogs since at least the

[Continued on page 24]

Star Search

Q ENCLOSED IS A PHOTO of a star washer on the side of a late 1800s agricultural building. This is part of a rod-and-turnbuckle device. The rod extends through the building to

CONCRETE RESTORATION SYSTEM

*Our easy-to-use
products save
your time,
your money . . .
your concrete*

- **PERMANENT**
- **STRUCTURAL**
- **CHEMICAL RESISTANT**



ABOCRETE bonds broken sections, rebuilds missing parts, repairs deteriorated surfaces.



ABOWELD bonds, patches and reshapes stairs and vertical surfaces. Will not slump.



ABOCOAT coats, protects, beautifies.

Restores:

Floors • Driveways
Steps • Columns • Walls
Patios • Decks • Garages
Post anchors • Pools
Sculptures • Sidewalks
Docks • Warehouses



ABATRON, INC.

Since 1959

33 Center Drive,
Dept. OHJ
Gilberts, IL 60136

For more details call:

800 / 445-1754

In Illinois: 708/426-2200

Fax: 708/426-5966

ASK OHJ



The embossed cherry moulding on this door and casing are machine-made designs.

[Continued from page 22]

1890s. The manufacturing process employs heat and pressure to create a relief design by passing carefully milled lumber under a heated embossing wheel. Correct temperature is critical. If the wheel is too hot it scorches the wood; if too cold, the results are poor. Individual items, such as rosettes, are usually stamped on an embossing machine.

Often used in widths under 3" on furniture and cabinetwork, embossed mouldings offer an affordable alternative to the real thing. Since they have long been popular in Europe (where the technique probably originated), your mouldings may, indeed,

have been imported. One source for carved and embossed decorative mouldings is Bendix Mouldings, Inc., 37 Ramland Road, South, Dept. OHJ, Orangeburg, NY 10962; (800) 526-0240. They supply crown and chair rail mouldings, rope and beaded mouldings, and wood ornaments and rosettes. Another source is American Custom Millwork, Inc., 3904 Newton Road, PO Box 3608, Dept. OHJ, Albany, GA 31706; (912) 888-3303. They can supply the mouldings and service from custom design to on-site supervision.

General-interest questions will be answered in print. The Editors can't promise to respond to all questions personally, but we try. Send your questions to: Questions Editor, Old-House Journal, 2 Main Street, Gloucester, MA 01930.

Erie Landmark Company Plaques

- ❖ Custom lettered bronze markers ❖
- ❖ For indoor-outdoor use ❖

- ❖ National Register Plaques.....starting from \$35.00
- ❖ Custom wording.....starting from \$95.00
- ❖ All sizes, from Medallions to Roadside Markers ❖
- ❖ Graphics and Logos Reproduced ❖ Time Capsules ❖
- ❖ Discounts to Historical Societies ❖ Metal Photo Images ❖

Call or Send for FREE Brochure:

Toll Free: 1-800-874-7848 ❖ Fax: 703-818-2157

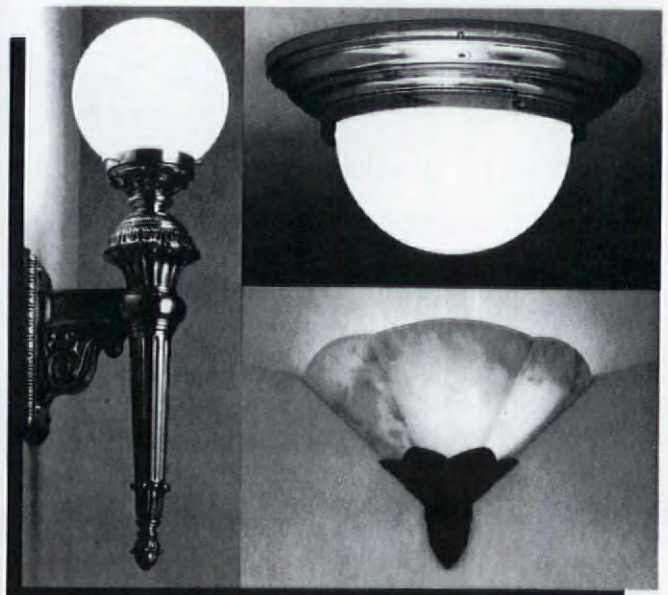
Erie Landmark Company
4449 Brookfield Corporate Dr.
Chantilly, Virginia 22021-1681



Satisfaction Guaranteed

Please allow 6-8 weeks for delivery

New Lights



Urban Archaeology

285 Lafayette Street New York, NY 10012, (212) 431-6969
Montauk Highway & Halsey Lane Bridgehampton, NY 11932
(516) 537-0124



Quartersawn Clapboard Siding and Building Materials including Wide Pine and Hardwood Flooring

Quartersawing produces
a vertical grain clapboard.

- Twists and warps less
- Wears more evenly
- Bonds paint and stain better

Also featuring...

Olympic Machinecoat™

Exterior Finish
for all types of siding.

Allows priming or finishing
prior to installation
with 10 year warranty:

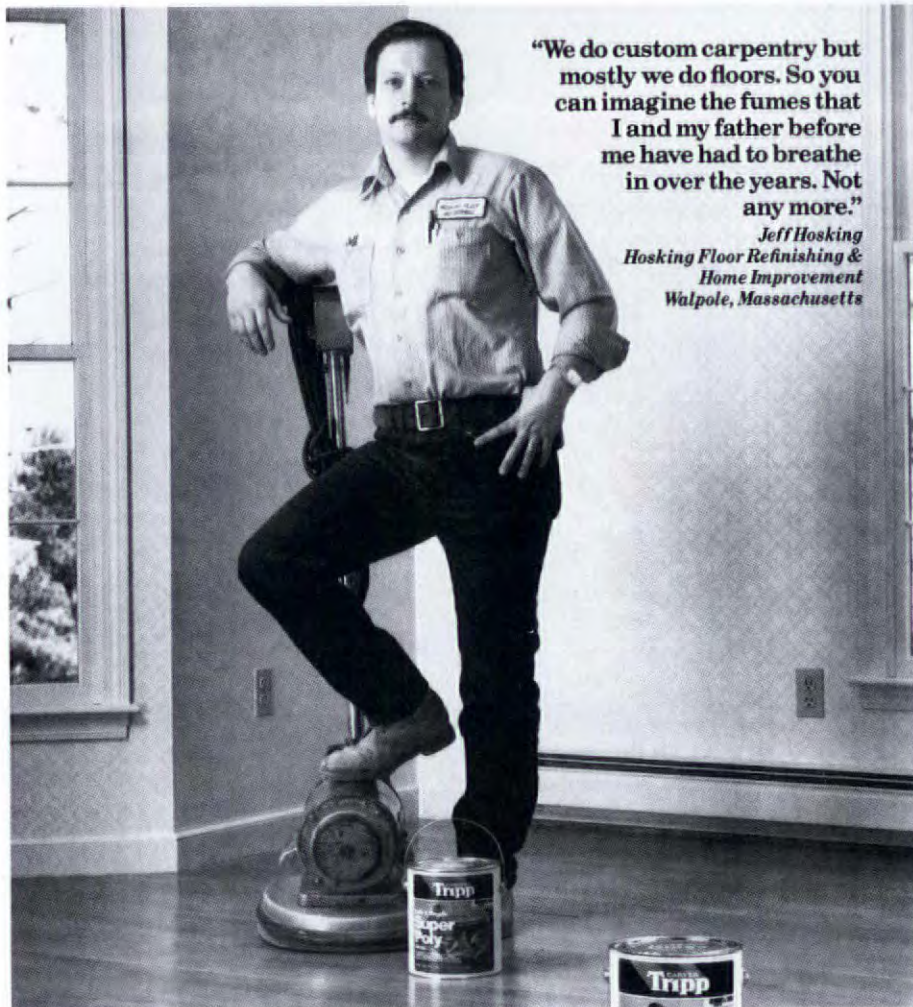
- Crack, Peel and Flake Resistant
- Washable
- Non-Yellowing
- No Chalk Washdown

**Granville Manufacturing
Company, Inc. • Est. 1857**

Granville, Vermont 05747

802-767-4747

Call or Write for Free Brochure



"We do custom carpentry but
mostly we do floors. So you
can imagine the fumes that
I and my father before
me have had to breathe
in over the years. Not
any more."

*Jeff Hosking
Hosking Floor Refinishing &
Home Improvement
Walpole, Massachusetts*

BALDWIN

Lexington Design
mortise lock handleset
with knob and oval plate
trim inside - polished brass
\$210.00 prepaid in U.S.A.
Miss. residents add 7% tax.
Visa & Mastercard accepted

Call toll-free 800-821-2750
Ask for the Hardware
Department

Addikson
HARDWARE CO. INC.

126 E. Amite St., PO Box 102,
Jackson, MS 39205

**Environmentally Responsible
Water Based Polyurethane**

Safe & Simple™

- | | |
|--------------------|-----------------------|
| ■ No toxic vapors | ■ Dries crystal clear |
| ■ No solvent fumes | in 30 minutes |
| ■ Nonflammable | ■ No solvent odor |
| ■ Water based | ■ Easy water clean up |

For more about the full line of Carver Tripp water based wood finishing
products, write "Environment," Dept OHJ, Parks Corporation, Somerset,
MA 02726.



HOMESAVER® CHIMNEY LINERS

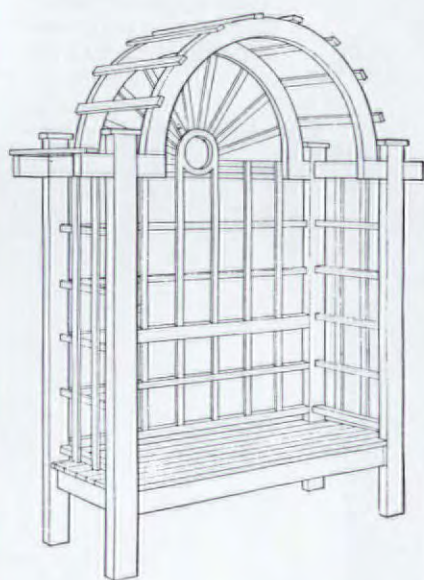
FOR RESTORING GREAT OLD CHIMNEYS ON GREAT OLD HOMES

Lifetime warranty for woodburning applications. UL Listed. Call or write for a
FREE brochure and the name of an installer/dealer in your area. 1-800-437-6685,
ext. 500; 9:00 A.M. to 5:00 P.M. Central Time, Monday through Friday.

HomeSaver Chimney Liners, P.O. Box 664, Fairfield, IA 52556



GOOD BOOKS



Garden furniture, like this combination pergola and seat, can "transform yards into beautiful gardens."

Wonderful Wooden Garden Structures

Pub: Hammer Press c/o Envision Tech, Inc., 318 W. Margaret Lane, Dept. OHJ, Hillsborough, NC 27278; (919) 732-6313; 1992, 26 pages (b & w photos and illustrations). \$18.74 ppd., softcover.

OWNERS OF POST-VICTORIAN houses, who want to add period garden structures to their landscapes, can harvest a bumper crop of design ideas from *Wonderful Wooden Garden Structures*. Printed when wooden garden structures first became popular in America, this little booklet is a reproduction of a 1926 Southern Forest Products Assn. publication (originally titled

Beautifying the Home Grounds) that contains over 200 line drawings and photographs. Lattice was an economical way to beautify gardens, so the book has acres of graceful archways, rose-covered trellises, and shaded garden houses and pergolas. A number of ornamental patterns for outdoor furniture and lattice gates and fences are also there for the picking. The illustrations are clear and simple to understand without specific dimensions (which are omitted because each design will have to be adapted to its location). *Wonderful Wooden Garden Structures* is an excellent resource for anyone restoring or creating a 1920s or '30s garden.

—L.E.

Cartouches
Friezes
Centerpieces
Brackets

Niches
Cornice
Grilles
Mouldings



We offer over 1500 handcrafted plaster ornaments for the building industry. Custom reproduction is also available.

The Fischer & Jirouch Co.
4821 Superior Ave.
Cleveland, OH 44103



Bus. Tel. (216) 361-3840
FAX Tel. (216) 361-0650

Antique Bathtubs and Pedestal Basins



Authentic, turn-of-the-century bathtubs and pedestal basins.

Brass, copper or chrome plated feet and accessories available.

Classic bathroom fixtures custom finished in colors of your choice.

Shipments made anywhere in U.S.

Satisfaction guaranteed.

DuraGlaze

2825 Bransford Avenue
Nashville, Tennessee 37204
615-298-1787

A LOVE OF THE HEART...

America's premier flooring manufactured from antique heart pine timbers

J.L. Powell & Co. Inc.
(919) 642-8989 • (800) 227-2007
600 South Madison Street
Whiteville, N.C. 28472

Do you know what Marvin said when I told them I wanted a bay window that would keep my kitchen cooler in the summer?

NO SWEAT.



At Marvin, our recipe for making windows isn't like everyone else's. We make them one at a time. To your exact specifications for size, shape, style and features.

So don't think you have to settle for an off-the-shelf window for your one-of-a-kind needs. Just tell us what you want, and we'll cook something up for you.

For a **free** copy of our 96-page catalog featuring the entire line of made-to-order Marvin windows and doors, mail the coupon or call **1-800-346-5128**. In Canada, 1-800-263-6161.

Send to: Marvin Windows, Warroad, MN 56763.

Name _____
Address _____
City _____ State _____
Zip _____ Phone (____) _____

**MARVIN WINDOWS
ARE MADE TO ORDER.**



**ONLY ONE BRAND OF PAINT WAS AUTHENTIC
ENOUGH TO RESTORE COLONIAL WILLIAMSBURG
TO ITS ORIGINAL STATE.**

Only Martin-Senour paint is authorized to reproduce the authentic colors of Colonial Williamsburg. So naturally, it's the paint that continues to bring Colonial Williamsburg to life. If you want to recreate this authentic look in your own home, go to your Martin-Senour dealer. Only he can sell you the original.



Johnson Paint Co.
355 Newbury St.
Boston, MA 02115
617-536-4244

**MARTIN
SENOUR
PAINTS**

Your Martin-Senour dealer.
Why trust your paint to anyone else?

© 1994 Martin-Senour Paints

OUTSIDE THE OLD HOUSE

Building Retaining Walls

by William W.H. Trowbridge

WHEN I MENTION TO someone that I build stone walls, they often say, "Oh, stone walls, that's a real art!" I usually reply, "Not when I do it." Calling my walls art would make Phidias or Bernini groan in their graves. Building stone walls is a skill that can be learned. Your first wall may not be particularly pretty, but if you follow a few rules at least it will be strong.

A retaining wall holds back tons of earth. This is a lot to ask of a wall so it has to be thick. The visible part is a facade, backed by and tied into a mass of rock and gravel, which does most of the job.

The enemy of a retaining wall is water, and thus must be kept away from the back and base of the wall. Freezing water expands, and if it is allowed to sit against a facing stone, it will push that stone out of place within two years. To keep facing stones in place, separate them from the earth with $\frac{3}{4}$ " stone. The fill underneath acts as both a drainage trench to protect the base stones and



a cushion to absorb the motion of frost heaves. As a general guide, have the width of backing behind the wall equal to $\frac{2}{3}$ the height of the wall. In

(left) Choose and lay base stones carefully on a bed of $\frac{3}{4}$ " stone. (below) This 19th-century foundation is falling apart because the joints all line up. Instead, each course of stones should have overlapping joints.

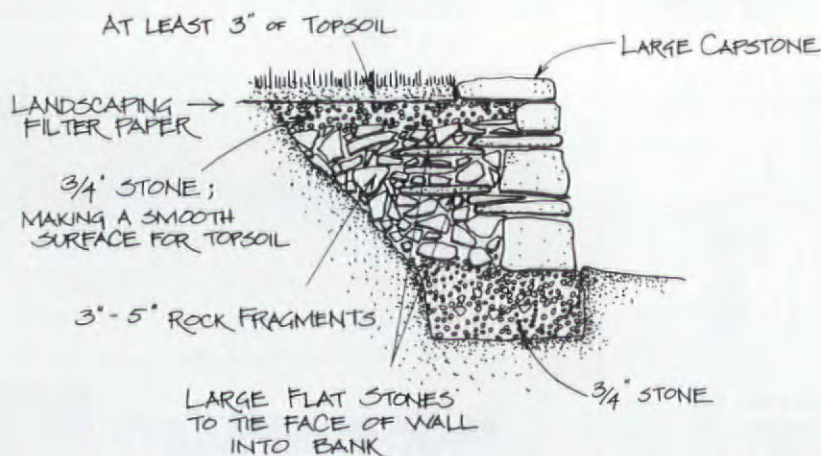


addition to using chips and debris from stone wall construction, I often order truckloads of $\frac{3}{4}$ " to $\frac{5}{8}$ " stone fragments from a local quarry to use as backing. Since the backing will be covered, color isn't important. It can be granite, limestone, traprock, or whatever is local and cheap.

Construction and Tools

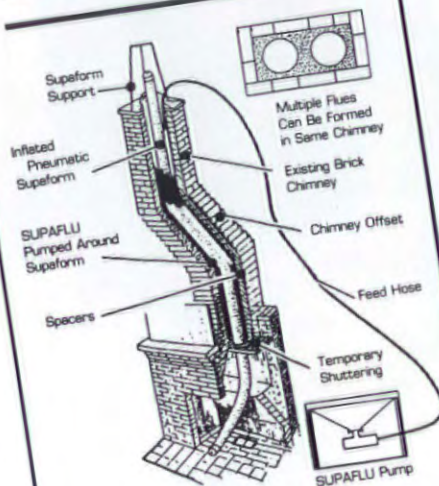
TO START A WALL, DIG A FOOTING trench 2' wide by 1' deep and fill with a layer of $\frac{3}{4}$ " stone to within 1" of ground level. Pound in stakes and stretch a line of mason's cord 6" above the ground as a guide. Line up the bottom stones carefully. These should be some of your largest stones, with straight edges in front. Lay the stones so the tops are level to each

[Continued on page 30]



Construction with proper drainage behind and underneath will protect a retaining wall from potential water damage.

Supafu Makes Old Chimneys Better Than New Chimneys.



Because Supafu retains the original charm and craftsmanship built into so many older chimneys while providing a new margin of safety, performance and durability older chimneys never knew, Supafu gives new life to some of our most historic chimneys. That's why when home restoration experts run into chimney problems, their solution is Supafu. Whether your chimney is historic, or just very, very used, Supafu can make it like new. Your Supafu dealer is in the Yellow pages.

National Supafu Systems, Inc.
P.O. Box 89, Walton Industrial Park
Walton, NY 13856
1-800-788-7636



supafu

ALL STEEL RADIATOR ENCLOSURES FOR HOMES, OFFICES, CHURCHES, INSTITUTIONS



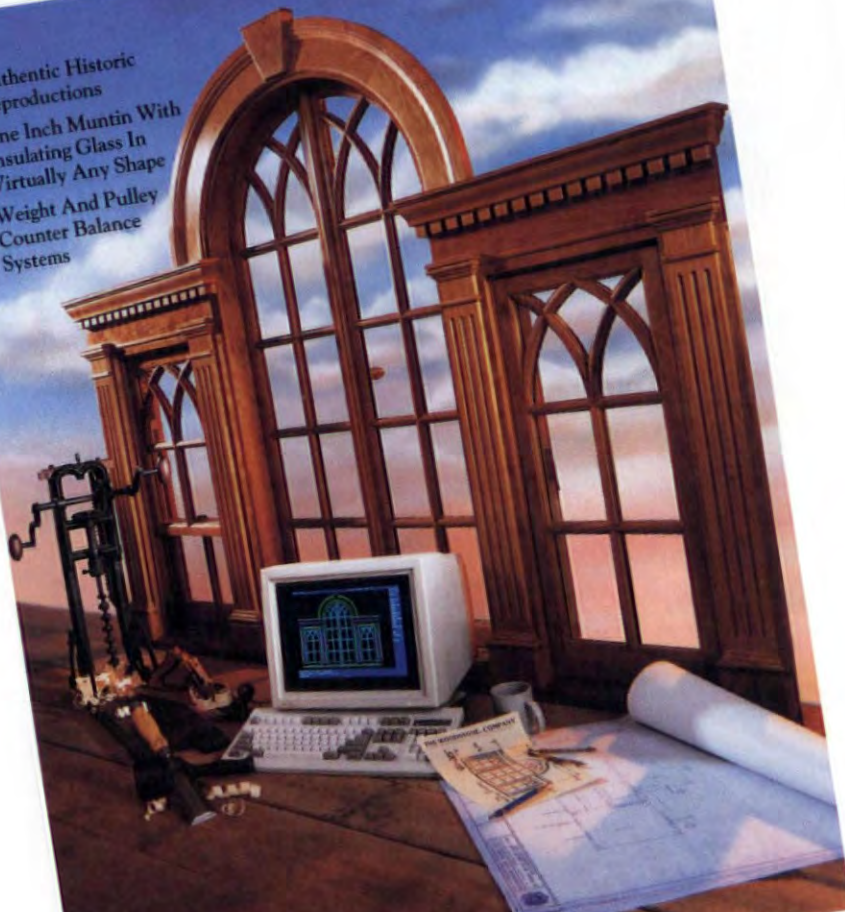
FROM \$21⁸⁵

BUY FACTORY DIRECT & SAVE • EASY TO ASSEMBLE
MANY STYLES & COLORS • BAKED ENAMEL FINISH
Send \$1.00 for Brochures. Refundable with Order.

MONARCH Dept. OHJ
2744 ARKANSAS DRIVE, BROOKLYN, N.Y. 11234
(201) 796-4117

TRADITIONAL & CONTEMPORARY WOODEN WINDOWS & DOORS

- Authentic Historic Reproductions
- One Inch Muntin With Insulating Glass In Virtually Any Shape
- Weight And Pulley Counter Balance Systems



Woodstone® is a registered trademark of the Woodstone Company

W·O·O·D·S·T·O·N·E

For brochure: Please send \$3.00 for shipping and handling
DEPT OH, BOX 223, WESTMINSTER • VERMONT 05158
(802) 722-9217 • FAX (802) 722-9528

Nothing Works and Lasts Like Tuff-Kote!

For tough "old house" repair jobs, use Tuff-kote & Tuffglass Fabric.

- Seals basement & foundation cracks.
- Repairs windowsills & gutters, restores weathered wood.
- Stops roof leaks, seals chimneys and flashings.

Tuff-Kote's waterproof patch stays flexible, moves with your house — won't shrink or crack.

TUFF-KOTE CO., INC. 210 Seminary Avenue, Woodstock, IL 60098
Wherever paint is sold...or call 1-800-827-2056 to order

Quality Home Repair Products for over 40 years



MAY • JUNE 1993

OUTSIDE THE OLD HOUSE



A finished retaining wall, complete with large capstones and granite steps.

[Continued from page 28]

other — this will make it easier to lay the next stones across the joints. (Save some of the big, flat stones, though, for the top of the wall.) If this part of the work is done well the rest of the job will be easier, and the line of the entire wall will be neater. A very good rule to follow is: *One over two and two over one*. This insures that the wall will be tied together well.

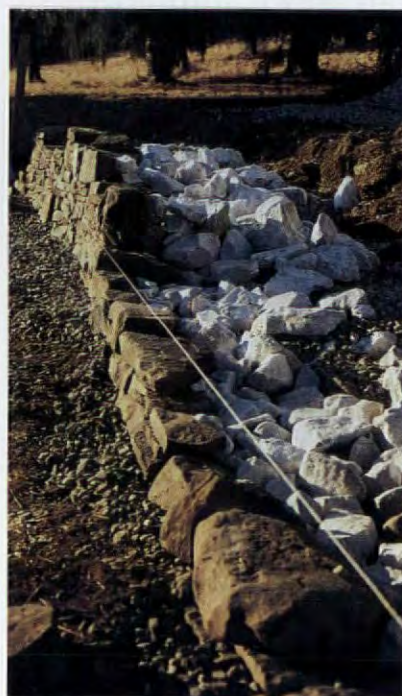
Dry stone walls are held together by the friction between the stones. Weight upon the stones below keeps them from sliding apart, and the wider the overlapping surfaces, the tighter they hold. Wedge-shaped stones contact more surface area with the other stones around them than round or chunky ones. For this reason, broad, flat stones should be used for leveling the facing stones.

Put in a long stone every 4' or so that reaches well into the backing of the wall. This will act as an anchor, holding the face of the wall into the material behind. You might also lay some large flat stones in the backing to give the structure more unity.

Use an 8 to 14 lb. mason's sledge (a sledge hammer with a straight edge on one side) to split rocks into flat

pieces. You should also have a 3 lb. hammer with one tapered side. This is useful for splitting smaller stones to get wedge-shaped chinkers and can be used for striking a chisel. Have a brick hammer handy at all times to break up stones for chinkers and to knock unwanted projections off for a better fit. For finer work, use two chisels: one with a 2" blade (also called a tracer), and one with a point. Use the tracer for splitting a stone along the grain. Use the point for chipping across the grain or for general removal of material.

You may want to break a stone at a precise point. To direct the impact cleanly through the stone, lay it on a larger stone and strike exactly above the point of rest. This is a handy technique for smaller stones of 3" to 4" (or as little as 1" across), which would otherwise shatter unpredictably. Always



Since no one will see it, use cheap stone rather than nice fieldstone for backing. Here 5" to 8" limestone rip-rap came from a local quarry for \$25 per ton.

wear gloves and eye protection when working stone.

Finishing Touches

WHEN YOU STILL HAVE ABOUT 1' TO GO, pick out the big stones you want on top. Then start measuring other stones to get the capstones up to the right level. For the top of a wall I always try

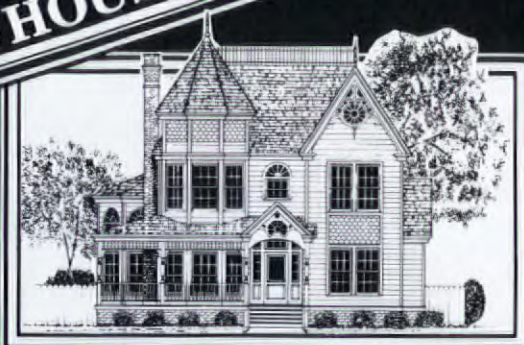
[Continued on page 32]

Fixing a Falling Wall

IF THERE IS A TUMBLED WALL ON YOUR PROPERTY THAT YOU WANT TO SET RIGHT, save yourself time and take the whole thing apart. Spread the stones out on the lawn so you can see them all, dig a 1' footing trench, and start the wall again from the bottom. If the bottom facing stones are still in good position and just the top layers need repair, dig the earth away from behind the bad stones and knock them back into position with a sledge and a block of wood. Have a trusting friend hold the block of wood against the stone to be moved and tap or smack the block until the stone is right. Refill the back of the wall with $\frac{3}{4}$ " stone.

IF YOU LOVE OLD HOUSES

**We have the
house plans
you've been
looking for !**



Our beautiful portfolios unite yesterday's exteriors with today's floor plans. Each one contains 48 authentic designs. Working blueprints are designed for energy efficiency and economical construction. Order today!

VICTORIAN and FARMHOUSES contains 48 authentic designs.

COLONIAL HERITAGE features Georgian and Federal designs.

LOUISIANA COLLECTION has raised cottages and plantation homes.

CLASSIC COTTAGES contains a variety of designs under 2000 sq. ft.

Each portfolio \$16.00
Any 3 portfolios \$40.00

Any 2 portfolios \$28.00
Any 4 portfolios \$48.00



Historical Replications, Inc.

P.O. Box 13529, Dept. OH53
Jackson, MS 39236

1-800-426-5628
In MS 981-8743



Ready-Laid™ antique heart pine flooring.

*The Joinery Is Making
History With A Floor That's
Easy To Install.*

The tools are centuries old. So are the timbers. And through The Beauty Of Recycling™, The Joinery Company is using them to make history with something brand new: Ready-Laid™ antique heart pine flooring.

- Authentic antique heart pine flooring that's pre-fitted, pre-laid, and needs no commercial sanding
- Pre-squared ends and laser-straightened edges
- Packaged in easy-to-handle nested bundles
- Kiln-dried to insure dimensional stability

Give us a call at (919) 823-3306. We'll tell you more about our Ready-Laid™ antique heart pine, and help you make a little history of your own.

Send \$5 for our portfolio and price list, or \$25 (refundable with your order) for samples of 16 fine woods. Credit card orders accepted.

**THE
JOINERY CO.**
Antique Heart Pine Flooring
Dept. OH • PO Box 518 • Tarboro, NC 27886
(919) 823-3306

VICTORIAN WALLPAPERS

- Handprinted Borders, Friezes, Ceiling Papers & Coordinated Wall Fills.
- Available Directly from our Studio by Mail Order.
- In-house Design Service.
- Color Catalog with Binder: \$10.00

BRADBURY & BRADBURY
ART WALLPAPERS
P.O. BOX 155-C • BENICIA, CA. 94510
(707) 746-1900

NOW AVAILABLE!
Edwardian / Arts & Crafts
Collection
Call for Details

OUTSIDE THE OLD HOUSE

[Continued from page 30]
to use stones at least 8" thick. Smaller stones on top look like leftovers.

SUPPLIERS

Bon Tool Company

4430 Gibsonia Road,

Dept. OHJ

Gibsonia, PA 15044

(412) 443-7080

Stone mason hammers, chisels, chippers,
tracers, and wedges. Free catalog.

Remay, Inc.

P.O. Box 511, Dept. OHJ

Old Hickory, TN 37138

(800) 321-6271

Manufacturers of TYPAR® Landscape Fabric.

Available at home and garden centers, and retail
nurseries. Call for nearest distributor.

Large capstones make the wall more solid and gives it a sturdy appearance. They also provide good bases for flowerpots, sculpture, and sitting.

Use $\frac{3}{4}$ " stone for the back of the wall as much as possible. Larger stones will allow earth to filter down, and smaller pieces might freeze as a unit. If you do use larger stones, throw in some chips to fill in the gaps.

Top off the backing of the wall with $\frac{3}{4}$ " of $\frac{3}{4}$ " stone. Over this lay landscaping filter paper, scribing it to fit against the back of the facing stones. The paper ensures the final layer of topsoil will not wash down among the wall stones - modern-day protection for the wall you have assembled using the same techniques as artisans from ancient times.



Landscaper's black filter paper is placed over the backing of a wall ready for topsoil.

WOOD MANTLES
CAPITALS
BRACKETS
MEDALLIONS
PLASTER CORNICES
WOOD MOULDINGS
COMPOSITION & WOOD FIBER ORNAMENTS

Established 1893
DECORATORS SUPPLY CORPORATION
312/847-6300
3610 S. MORGAN ST. • CHICAGO, IL 60609

MODERN VENTILATION

**NOW AVAILABLE
WHITE
MIDGET LOUVERS**

Two styles in four sizes at extremely attractive prices. Ideal for residential construction. Control Moisture, Vapor, Damp Rot, Corrosion and excessive heat. Easy to install without screws or nails.

**MIDGET LOUVER
COMPANY**
800 MAIN AVENUE
NORWALK, CONNECTICUT 06851
PHONE (203) 866-2342
FAX (203) 847-7147

LIGHT FIXTURE FABRICATION



WE CUSTOM BUILD TO
ARCHITECTS & BUILDERS
SPECIFICATIONS.

CONANT CUSTOM BRASS
P.O. Box 1523TB
BURLINGTON, VT 05402
802-658-4482

You Can Save Up To 50% On Home Heating Cost

And never have to buy fuel, wood, oil, gas, kerosene ever again.

REPLACE OLD & INEFFICIENT HEAT

Hydro-Sil is a unique zone heating system that can **save you hundreds of dollars** in home heating costs. It can replace your electric heat, oil or gas furnace. Your kerosene heaters and woodstoves.

Your benefits with Hydro-Sil

- Slash Heating Cost - Up to 50%
- Lifetime Warranty - no service calls
- Safe for children & furniture
- Clean - no fumes - no smoke
- U.L. Listed
- Preassembled - ready to use
- No furnaces - ducts - chimney
- Portable (110V) or permanent (220V)
- Whole House Heating or Single Room
- Room by Room Control

Hydro-Sil works like this: inside the heater case is a sealed copper tube filled with a harmless silicone fluid that will never spill, leak, boil or freeze. **It's permanent. You'll never run out.** Running through the liquid is a hydroelectric element that, when the thermostat is turned on, quickly warms the liquid. The silicone liquid with its heat retention qualities continues to heat after the Hydro element shuts off, **saving you money.** The heat radiating from the tube is directed into a gentle convection flow that delivers warm, comfortable heat into the room. It's just that simple. The principle is the same as hot water heating and provides the same comfortable benefits.

Credit Orders-Toll Free 1-800-627-9276 (M/C-VISA)

Or Mail To: Hydro-Sil

PO Box 662, Fort Mill, SC 29715

SEASONAL DISCOUNT AVAILABLE NOW



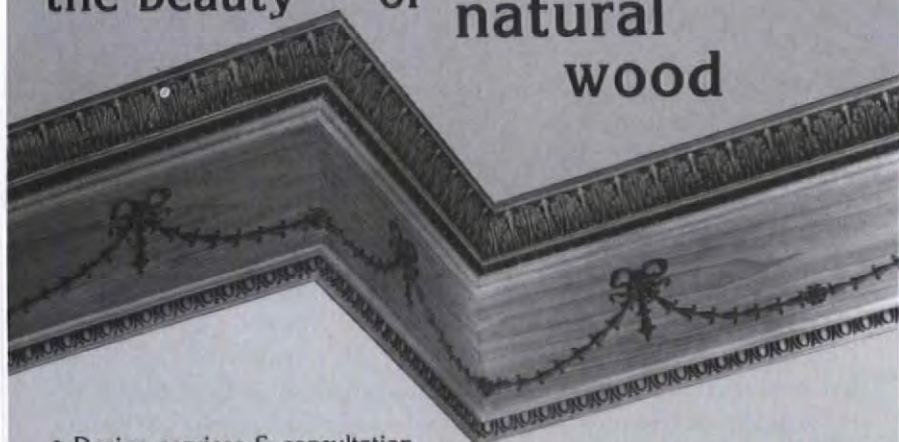
TWO MODELS TO CHOOSE FROM:

PORTABLE 110 V or PERMANENT 220 V

220 Volt Permanent	Approx. Area To Heat	Discount Price	Quantity
8' 2000 watts	300 sq. ft.	\$239	
6' 1500 watts	250 sq. ft.	\$219	
5' 1250 watts	200 sq. ft.	\$199	
4' 1000 watts	175 sq. ft.	\$179	
3' 750 watts	150 sq. ft.	\$169	
2' 500 watts	100 sq. ft.	\$149	
110 Volt Portable			
6' 1500 watts	250 sq. ft.	\$189	
4' 1000 watts	175 sq. ft.	\$179	
3' 750 watts	150 sq. ft.	\$169	
4' Dual Watt 750-1500 W		\$199	
S.C. & N.C. add sales tax		\$	
\$15.00 shipping per heater		\$	
Total Amount		\$	

Acct No. _____ Ex. _____
Name _____
Address _____
Phone _____

Authenticity, Craftsmanship, and
the beauty of natural
wood



- Design services & consultation
- Embossed wood mouldings — straight or curved
- Available in all species of wood
- Custom designed & crafted interiors
- Doors • Mantels • Gun cases
- Raised paneling • Circular stairs
- Custom cabinetry • Entryways
- Supervision from design to installation

CATALOG AVAILABLE — \$5



AMERICAN CUSTOM MILLWORK, INC.

3904 NEWTON ROAD • P.O. Box 3608

ALBANY, GA 31706

(912) 888-3303 • (912) 888-6848 • FAX (912) 888-9245

U.S.A. — WORLDWIDE

Number One in America



Quality products that really work.

KLEAN-STRIP, DIV. W.M.BARR & CO. • 1-800-238-2672

READING THE OLD HOUSE

Is That a Cottalow or a Bungalottage?

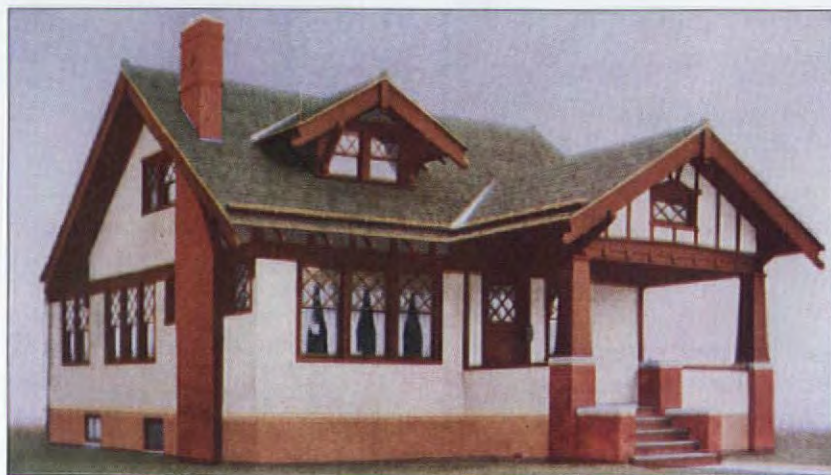
by James C. Massey and Shirley Maxwell

HERE'S A PHOTO OF A typical, well-maintained small house that the owners think of as a cottage. Yet today, as well as in the sales hype of the 1920s, such a house is also frequently called a "bungalow," or even a "cottage bungalow." The unassuming design, with its vaguely Arts & Crafts bracketed eaves and lightly clipped gable-end roofs, would look right at home in one of the many builder's catalogs and plan books of the period. But is this house a bungalow or is it a cottage?

Henry H. Saylor, whose 1911 book *Bungalows* pretty much sums up the subject, managed to think of at least ten different types of American bungalows, and the term seems to have been popularly applied to just about any house that had a front porch and was less than three stories high. To Saylor — and to us — it's the low, front-sweeping roof, the "low, snug, earth-hugging mass," and the rambling floorplan of the bungalow that distinguish the type and tie it to its Bengalese origins. It's a close call but, to our eyes, this house is a bit too vertical and too compact in feeling for a bungalow, but



A telltale sign of a cottage: This house's upright compactness.



Note the horizontal floorplan and the low-pitched gable roof on this early 20th-century bungalow.

just about right as a cottage.

It's easy to understand how the terms cottage and bungalow came to be so readily intertwined. Both are small, rather low houses (one- or one-and-a-half stories), designed to use interior space in an economical manner. Both are also meant to imply good taste at an affordable cost. Each came to national ascendancy in the early 20th century when the United States was busy building inexpensive houses for a huge and growing population.

The basic differences probably stem from the fact that the bungalow was originally designed for a hot climate, and the cottage for a colder climate. The first bungalows had to fight heat and glaring sunshine; hence the deep porches and wide, low rooflines. Although cottages often do have porches, they are clearly design extras and not necessary to the definition of the building as a type. Cottage interi-

ors are also likely to be less open than in a bungalow of the same size, with more rooms that can be closed off. This being a free country, however, bungalows may be found in Minnesota and cottages in Florida.

Perhaps we should emphasize here that neither the bungalow nor the cottage is a house style. Both are basic house types, which can be dressed up to fit a number of styles, from Prairie School to Arts & Crafts to Colonial Revival to Mediterranean. Still, the bungalow (with its ties to colonial India) suggested well-tempered exoticism, while the cottage offered the traditional values of England, Europe, and early America (as embodied in the Cape Cod house). None of this late-20th-century nitpicking, however, changes the fact that in the 1910s, 1920s, and 1930s, "cottage" and "bungalow" were virtually synonymous in the popular mind.



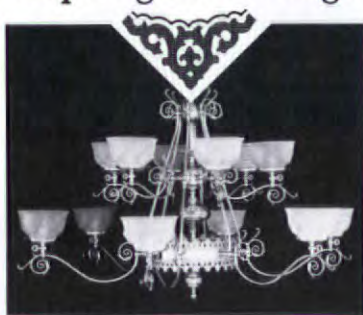
LOG HOUSES. . .and other
18th & 19th century build-
ing materials salvaged from
old houses, grist mills, and
barns:

- hand hewn logs •
- flooring •
- windows •
- doors •
- hardware •

Sylvan Brandt

653 Main Street Lititz, PA 17543
(717) 626-4520
Fax: (717) 626-5867

Superb grace of design.



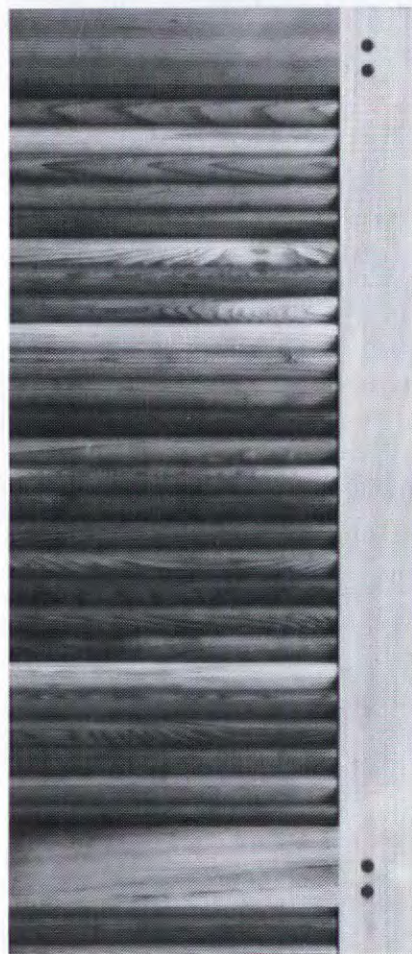
Send \$5 for our full color catalog.
(catalog fee refundable with order)

251 s. pennsylvania avenue
po box 469, centre hall, pa 16828
814-364-9577

*Victorian
Lighting
Works*



DOES THE WORD POLYSTYRENE MAKE YOU SHUDDER?



Don't compromise authenticity.

Using clear, old growth
western red cedar, Vixen
Hill crafts a shutter that out-
performs pine and plastic in
looks and life. Joints are
mortise and tenon with teak
locking pins. Both panels
and louvers are of generous
dimensions ensuring lasting
beauty for generations.

For a detailed brochure
featuring our 5 traditional
styles in both standard and
custom sizes contact:

Vixen Hill Mfg., Main Street
Elverson, Pennsylvania 19520
Telephone (215) 286-0909



The Vixen Hill Cedar Shutter

*The very last shutter
you will ever need.*

RESTORE OR BUILD
with timeless reproductions
METAL COMPONENTS—Cast of Iron and
Aluminum or Forged from steel.

General catalog with over 1200 design selections
available for \$10.00

LAWLER MACHINE & FOUNDRY CO., INC.
PO Box 320069, Birmingham, AL 35232

SWEETS/FILE NO. 05600/LAW

6/93



Houses With

THE UNCOMMON TECHNIQUE OF PLANK CONSTRUCTION

by Stephen B. Jordan

MOST HOUSES BUILT OF WOOD RELY ON A TYPE of frame for structural support — but not all houses. Besides widespread and well-documented systems such as the balloon frame or platform frame (see “The Structure of Wood-Frame Houses,” March/April 1992 *OHJ*), there is the far less familiar family of building techniques that uses no true frame: plank construction. Fueled by the last century’s demand for quick, inexpensive housing, plank houses appeared anywhere there was a local source for timber and a sawmill to supply cheap lumber.

Plank house construction techniques varied widely with the builder and location, but all used planks — square-sawn lumber 2" to 4" thick and at least 10" wide — to build a wall. There were two basic methods. Vertical plank construction stood the planks up vertically like soldiers or pickets in a fence; horizontal plank construction stacked the planks horizontally like cards. Both methods are structural and could support a house without a frame made of heavy timbers or dimensioned studs.

Information on these techniques is scarce and examples are hard to find, not suprising given that the building’s shape or style is no tip-off to its construction. In fact, most old-house owners only discover their house is built with one of these offbeat methods when they begin major repairs or open a wall for insulating. For folks who’ve had such an experience, this article will try to shed more light on the nature of these interesting buildings.

Vertical Plank Construction

VERTICAL PLANK BUILDING IS FOUND IN TWO GENERAL types of houses. The most common and earliest ver-

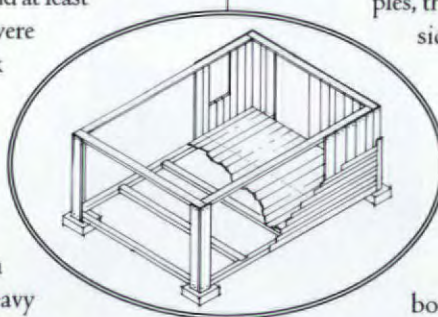
sions were used to fashion walls in hewn-timber frame houses without studs (and sometimes without braces). To such a timber frame the builder would attach wide, random-width boards, 1½" to 3" thick, that ran vertically from plate to sill through one or two storeys. From the 17th century to the early 19th century, locally milled planks were fastened to the sill and plate with wooden pegs. Later, inexpensive cut nails replaced pegs.

In better examples of vertical plank walls, sills and plates are rabbetted, ploughed, or sometimes mortised to receive the planks. This sophisticated joinery-type attachment provided a stable wall that was flush with the timber frame. On later, less substantial exam-

ples, the planks were simply nailed to the outside of the sill and plate. After the house was framed, windows and doors were cut in and clapboards or shingles were easily nailed to the exterior wall for cladding. Inside, lath for plastering was attached directly to the planks, but in many cases wallpaper was applied directly to the bare board wall or over a layer of muslin. Partition walls inside the building were also made with planks. Since the rough cornerposts were visible and prominent, they were often encased in finished lumber and

decorated with a chamfered or beaded arris (the sharp edge where the post faces meet). Unembellished posts were painted or covered with wallpaper.

Later versions of vertical plank construction entirely omitted corner posts, relying on the planks rather than heavy corner timbers to support the weight of the structure. In this method, the plank lumber was often increased to 3" in thickness. Since heavy timber sills and plates were still part of this technique, old-house enthusiasts disagree as to how the walls were erect-



Planks alone hold up simple “box frame” houses.

hout Frames



Lost clapboards bare the structural secret of this Ovid, New York, house: walls built solely of vertical planks.

ed. Some believe the heavy timber plate was lifted into place on the previously positioned wall. Others maintain that the entire wall was assembled on the ground and then lifted into place with ropes and poles. In support of the first method, one 19th-century pattern book author directed his readers to erect the corner planks, brace them, and then hoist the plates up to be attached.

Although this system of supporting walls and roof with planks seemingly defies all common sense and good construction practice (walls are thin and wind bracing, for example, is negligible), existing examples remain sturdy and in good repair. Standing buildings that date to the 17th and 18th centuries clearly document the use of vertical plank building throughout the northeastern United States and in Canada. However, as the population expanded West and South in the 19th century, this simple form of construction traveled not only as part of the builder's skills, but also in popular architectural pattern books and trade magazines. Among the many references to this

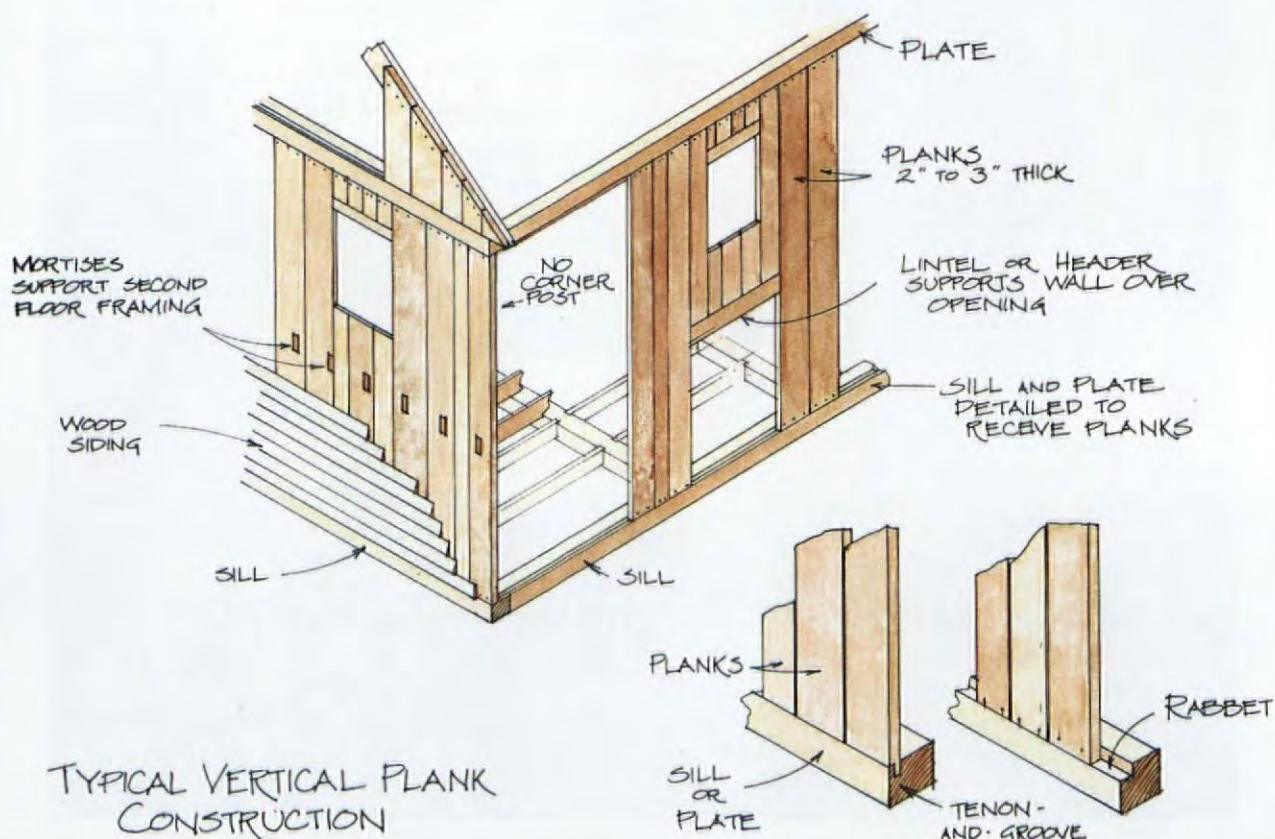


Planks in the 1856 Charles Applegate house in Yoncala, Oregon, rise as one piece for two storeys.

method were those by Gervase Wheeler in *Homes for the People in Suburb and Country* (1855). As late as 1887, George Palliser recommended the plank method for a three-room settler's cottage in *Palliser's New Cottage Homes*.

Often known as "box frame" or "boxing framed" houses, industrial revolution-era examples of vertical plank construction are noted all over the southern United States, California, and in the Pacific Northwest. Here, the

technique was popular for inexpensive tenant and farm housing. Numerous Texas examples from the last half of the 19th century, and as late as the 1930s, were constructed of dimension lumber that, unlike early eastern examples, could have been shipped in by rail. Indeed, there is evidence that whole "box frame" houses built for oil and mining boomtowns were once moved to site on flatcars. The walls of these one-storey houses were often constructed with wide 1" planks simply nailed to the faces of sills and plates (see drawing, page 36). Battens covered the joints in planks, or they used tongue-and-groove planks



TYPICAL VERTICAL PLANK CONSTRUCTION



with horizontal clapboards nailed to the exterior. As in the earlier northeastern houses without corner posts, southern and western examples were constructed without additional structural framing and erected in a similar manner. The technique was still viable well into this century and used as late as the 1940s for hundreds of World War II temporary buildings.

Horizontal Plank Construction

THE SECOND AND LESS COMMON type of plank construction is the horizontal or "plank-on-plank" method. A strictly 19th century technique, plank-on-plank construction depended on an abundant source of lumber and inexpensive nails. The method was simple: 1" planks sawn about 6" wide were stacked and nailed one on top of the other to form a dense, solid wall. Overlapping the boards at corners, as



Random-width planks — some the diameter of a tree — also partitioned interiors.

in a box joint, tied the walls together and added stability. Partitions were meshed with the main walls in much the same way by lapping-in alternate planks. To avoid the expense of lathing while creating a void for plaster keys, the boards were usually stacked to create an alternating or staggered pattern of one board inset and the next projecting forward in an offset. The same effect could be achieved by ordering half the lumber 6" wide and the remaining half slightly narrower. By laying up the wall with the exterior sides flush, the interior side had the same alternating pattern as in the staggered method. Although the expense of lath was saved, this method required considerably more material for the plaster rough coat.

Since an experienced carpenter was not needed to provide a complex frame, the plank-on-plank house was



Siding off, the vertical planks supporting this house without corner posts become clear. Note the joist pockets near the windows.

an excellent method of construction for the novice house builder. Furthermore, unlike heavy timber posts and beams, each unit of a plank-on-plank structure could be easily lifted and installed in place by one man and a helper.

Objections to the plank-on-plank method were the wasteful use of lumber and nails and the slow rate of erection — about one vertical foot per day. Since the many interstices between boards were vulnerable to wind and vermin, most builders recommended a rough coat of plaster or parging on the exterior wall prior to installing cladding. In addition, the system had structural problems, with walls prone to bowing and bulging.

While vertical plank construction is seen as a reasonable extension of timber frame practices, the plank-on-plank method, although similar to log house construction, is often viewed as a local oddity. This method,

Only battens were used to close in the planks of this "box frame" house near Ripley, Tennessee.



however, was endorsed by well-known authors like Orson Fowler who referred to the technique as "board-wall" construction in *The Octagon House* of 1853. Fowler's explicit instructions and commentary extolled the virtues and savings of plank-on-plank building, a technique he had used in his Fishkill, New York home. Other examples, including industrial structures such as silos, mills, and storage buildings, are noted across the northeastern United States and Ontario Province in Canada. Plank-on-plank houses pop up as far west as Wisconsin, and as far south as Texas.

Living with Plank Houses

PLANK CONSTRUCTION OF ANY BREED IS NOT INDICATIVE OF A particular architectural style. My first encounter with plank building was in a large Gothic Revival home. During an architectural survey, I was told by a retired carpenter, "That old house doesn't have any studs in the walls." The mystery

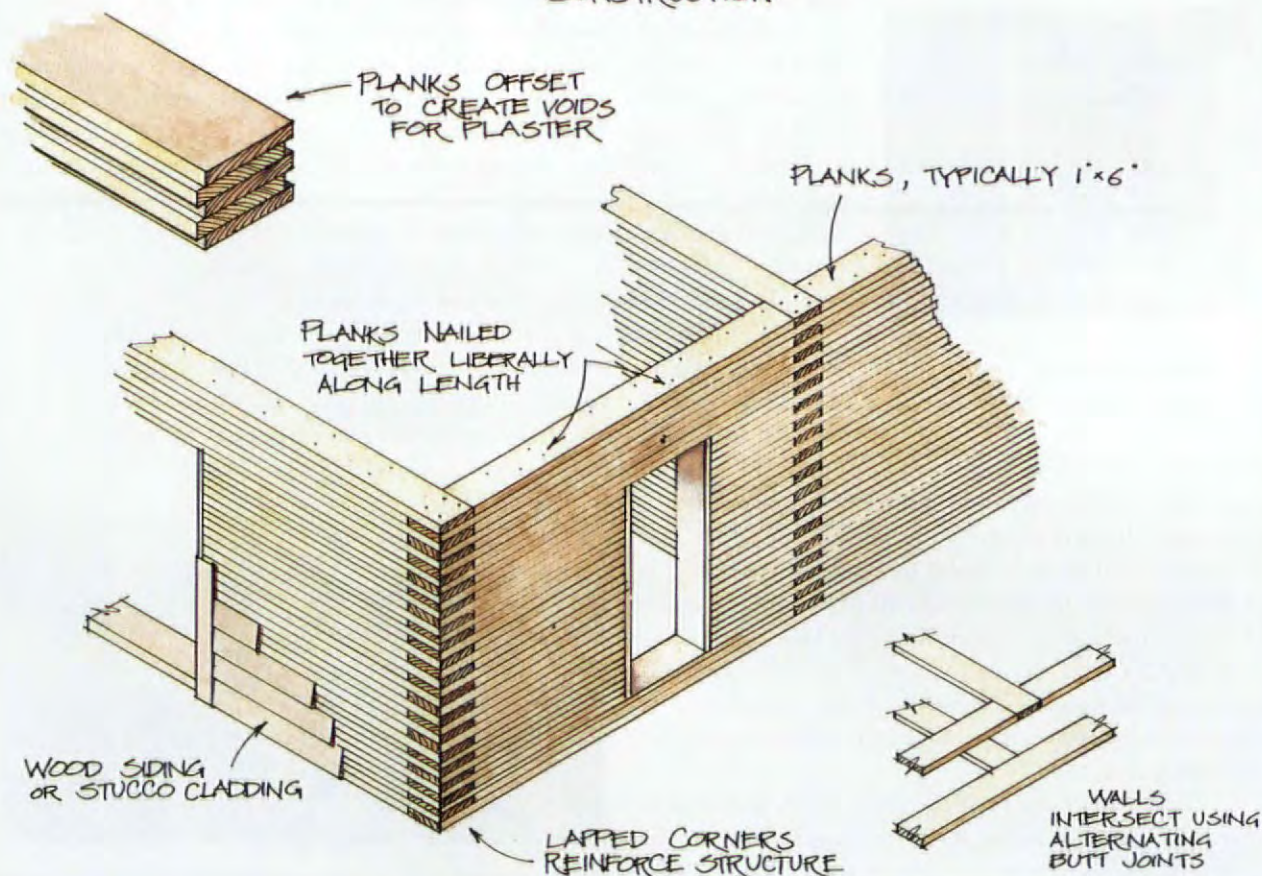


Viewed from the outside, there are no signs this 1845 Danby, New York, house is built with plank-on-plank construction.

turned out to be vertical plank construction. Later, while disassembling a timber frame house, I discovered a room that had been the original plank homestead, but was subsequently enshrouded by a stately Greek Revival structure.

Most homeowners are never aware their house is plank construction. Unsuccessful efforts to retrofit insulation or add wiring or plumbing are often the first indication the house is not built in a conventional way. Besides

HORIZONTAL OR PLANK-ON-PLANK CONSTRUCTION



the absence of a wall cavity, some clues that your house might be built with vertical planks are: 1) extremely thin (about 3") walls; 2) prominent posts in every corner; 3) wide, vertical planks visible from the attic on the gable ends. Plank-on-plank construction can be deceiving since walls tend to be closer in thickness to typical timber or stud framing. Nevertheless, gable ends visible from the attic will generally reveal the telltale stacked planks.

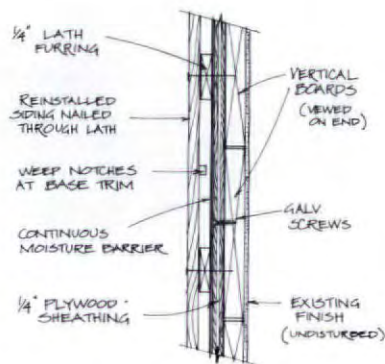
When asked how to insulate a plank house my usual answer is: Don't. Most methods are extremely disruptive or damaging to original materials and detailing. If insulation is added to the exterior, cladding must be removed and openings furred out to accommodate the increased wall thickness. If the roof overhang is extremely shallow, this additional thickness interferes with the original building's proportions. Adding insulation to the interior walls is also problematic if rooms are small. Precious space is lost on each perimeter because surfaces must be furred out to accommodate the insulation. Loss of original materials or details may be inevitable.

Since most heat loss is through the ceiling and leaky doors and windows, try simple measures first. For example: 1) superinsulate the attic floor; 2) install quality wooden



The 1890s home (above) of short story writer O. Henry in Austin, Texas, is a handsome "box frame." Suggested improvements included adding a thin space under the siding (right) for insulation.

THERMAL UPGRADE IDEA



storm windows; 3) seal all exterior cracks with a paintable caulk; 4) apply weather stripping to doors and windows; 5) take advantage of all possible passive solar measures.

Plank houses appear in many parts of North America and, if OHJ readers' comments are any indication, are more common than previously realized. I'd enjoy hearing from anyone with further information on these fascinating buildings.

A look in the attic may provide clues about construction. These horizontal planks in the gable end explained the whole house.



Steve Jordan is the Rehab Advisor for The Landmark Society of Western New York.

THE AUTHOR WISHES TO THANK Mary Joan Simmons Kevlin for use of her 1982 Cornell University graduate thesis, *Radiographic Inspection of Plank House Construction*. Thanks also to Philip Dole, Professor of Architecture Emeritus, University of Oregon; Bob Coffee and George Hammond, Coffee, Krier, Schenck Architects, Austin, TX; Tere Kinsey, Texas Historical Commission; Charlie Pomada of Ithaca, NY; and Norman Brown of Danby, NY. For additional reading see: *Building with Wood* by John I. Rempel; University of Toronto Press, 1980.



CHARLESTON SHUTTERS

A Study in Repair Technique • By Robert J. Albrecht

REMEMBER HURRICANE HUGO? YOU CAN'T FORGET it if you lived in Charleston, South Carolina. Hugo slammed into the charming old city in the fall of 1989 and ripped it apart, causing billions of dollars worth of damage. Even today, though the city looks better dressed in its new cover of slate, tin, and paint, major repair projects are still underway.

In the Historic District, most of the sturdy 18th- and 19th-century homes survived the disaster remarkably well, except for some inevitable exterior damage. One feature impressed me as testimony to these old homes' durability — their functional shutters. In the Historic District, shutters often comprise as much as 25% of a building's facade. Although definitely appealing to the eye, many shutters are far from ornamental: Some Charlestonians actually use them. The shutters provide basic security, privacy while maintaining ventilation and, perhaps most important, storm protection. Hurricane warnings are not rare on the South Atlantic coast, and no one

takes them lightly. When the warnings come, the less fortunate scurry around with ladders and sheets of plywood (if indeed any plywood is available in the face of a storm) to board up their windows. Lucky owners of buildings equipped with workable shutters simply close and bolt them from inside.

Hurricane Hugo was a storm of such magnitude, however, that many shutters were badly damaged or torn loose entirely. Justifiably proud of their historic buildings, the owners were reluctant to replace the shutters with new ones off the shelf. Some stock shutters are lighter, or not as well made. They are often unavailable in cypress (a heavy, decay-resistant softwood), and non-existent in uncommon sizes. Conversations with local joiners yielded nightmarish estimates for custom-made duplicates; at any price, first-growth cypress was not to be found.

For our project, the restoration of the shutters belonging to John Laurens, President of Preservation Consultants, Inc., we opted for repair rather than replacement. We began with an examination



Raised-panel shutters serve the dual traditional roles of protecting and complementing the variety of windows on this historic Charleston home; (opposite) No nailed-up backwards window dressing here, good construction and repair keeps these exterior shutters working.

of the shutters and found the old-time joinery to be excellent, the wood members thick and sturdy. The original-growth cypress had performed commendably for over 100 years in harsh exposure. The deterioration of the wood was actually limited to only a few areas on the shutters. As you might guess, these areas were critical — the joints,



(above) The horizontal edge of the hinge retarded drainage, and condensation behind it contributed to wood rot. When it was necessary to add to previously hardened filler (below), we roughed up the surface thoroughly with a knife or nail and coarse sandpaper.



and the attachment points for hardware. The joints had opened slightly over the decades and allowed water to seep in. The exposed endgrain of the members acted like straws “sucking” water into the wood through capillary action.

Polyester Resin or Epoxy?

AFTER EXAMINING THE OPTIONS, I DECIDED TO REPAIR THE shutters with fiberglass-reinforced polyester resin. Years ago when I first began using epoxies to restore deteriorated wood, I thought about the time in the 1950s when my father applied polyester resin over the bottom of an old canvas canoe. The canoe bounced over rocks for decades. I had often worked with polyester resins on boats and autos and wondered about the possibilities on architectural wood. After experimentation, I found that polyester resins can be used successfully; the secrets are in the proper thinning of the resin, and thorough priming with the thinned resin.

I have conducted many different types of bending and breaking tests on all types of wood repaired with polyester resin, in both extreme and mild cases of rot, and each time the results have been equal or better to the performance of wood “dutchman” repairs.

Epoxies are often used in these situations with good results. But three additional reasons weighed in my decision against them for this job. One, filler epoxies are hard to find in stock, and penetrating consolidant epoxies always need to be ordered. Two, epoxies have a long setup time. This extends the duration and difficulty of a job. Three, epoxies are more expensive, often three times as much as the polyester resins. This should not be a primary reason for choosing polyester, but is worth considering in cases where polyester will be more than adequate for the repair.

Polyester resin is readily available at most hardware, auto, and marine supply stores. Costs average \$25 per gallon for a two-part resin kit, \$15 per gallon for polyester filler (auto body putty), and \$10 per gallon for acetone (a solvent for the resin). You will also need a natural bristle brush, flexible plastic trowels (for ease of application and cleanup) and a “cheese grater” file, which can all be purchased where the resin is sold. Keep in mind that these chemicals are powerful. Be sure to handle them with reasonable care. I work in a well-ventilated area, use a dust mask when sanding, and wear rubber gloves.

Preparation for Repairs

THE PAINT ON THE SHUTTERS HAD TO COME OFF TO SEE ALL the defects and gain access to the wood. Stripping a shutter with a century’s worth of paint layers on it is no job for elbow grease alone. We took them to a professional furniture stripper who agreed to clean them for \$25 each. We chose spray-type application rather than vat-style to minimize absorption of the stripping agent by the wood.

Residual caustic left in exterior wood will self-strip paint for years to come, so I checked the pH. (I used Alkacid™ test paper from Fisher Scientific, Chemical Mfg. Division, Fair Lawn, NJ.) Although I was told the refinishing shop would neutralize the wood before delivery to us, my first test on the returned shutters showed a strongly alkaline result of pH 10. The refinishers then offered to treat them with muriatic acid (31% hydrochloric acid).

To test pH, make a small puddle on the wood with water that has tested neutral. Then wipe the excess off, apply the test paper, and compare it to the chart furnished by the manufacturer.





As the first step in restoring movement to stuck vanes, we tapped one side of the frame apart and gently worked the vanes out of their sockets.

After an application of ten parts water to one part muriatic acid, the wood tested acidic.

We abandoned the finishing shop to its own devices and fell back on an old home remedy: a solution of white vinegar and water. Our common sense was rewarded with a pH reading of 6, close enough to neutral (pH 7). After all the stripping, rinsing, and treating, we allowed the shutters to dry a week or two in a sheltered area. (If moisture gets trapped under new paint, it can cause premature paint failure. Re-check the pH before painting; it might

change slightly as the deep moisture migrates out.)

The shutters were now shaved and showered. The first carpentry task was to square them into shape. Shutters with vanes are like screen doors: without panels or diagonal braces they tend to droop into parallelograms and can't be closed. We



We used a hand-held drill bit to ream the old paint out of the vane holes, and cotton swabs to prime and to paint them. This provides a smooth bearing surface and protection from trapped water.

used a hacksaw blade to clean the joints, then carefully worked the entire shutter back to square.

Restoration with Polyester

NOW THE DECAYED AREAS OF THE WOOD WERE READY TO BE restored. The most important part was to soak the polyester as far back into the fibers and voids as possible. As it comes in the can, the polyester resin's viscosity is too thick to allow this. We thinned it 25% with acetone, and added a little more catalyst than normal to the mixture because the acetone slows hardening. (Note — styrene

monomer, "resin thinner", can be used to thin polyester resin, but it is hard to find and expensive, and will not bring the resin to the same viscosity as acetone will.) This part of the process is similar to soaking with consolidant when using epoxy and I have had excellent results using the resin in this manner.

We laid the shutter flat on a work table (no need to fight gravity) with the less deteriorated side up, and put with paper under the shutter to keep resin from sticking to the table. Using a natural bristle brush, we primed the cracks and voids with thinned resin until the wood couldn't soak up any more.

Then we switched to using unthinned resin to fill small holes and cracks. Without waiting for the resin to harden, we mixed the polyester filler and applied it to the prepared areas. We found that we didn't have to worry about bulges or irregularities; they were easily shaped with the file when the filler reached a rubbery condition before



Several vanes in our shutters had lost corners or chunks, or were cracked down the middle. We successfully "glued" cracks together, and rebuilt missing parts with the resin. We added filler and filed, again and again, until the original shape was achieved.

completely hardening. (Hardening can be accelerated with sunshine, a heat lamp, or a hair dryer.)

We turned the shutter over and repeated the whole process on the "bad" side. Doing the "good" side first cut the chance of losing resin through leakage. When some did leak out, we simply moved on to another area until the first application partially hardened. On both sides, we were sure to fill any joints that had opened from wood shrinkage over the years.


Deteriorated dowels and tenons were also successfully restored with the resin. On areas where we had doubts about the strength, we worked some fiberglass mat or cloth down into the resin during the process. We made sure to treat the exposed ends of all wood members to reduce future water absorption.

In other cases, pieces of the frame itself were miss-



Stripped shutters revealed their problem spots. On this one, standard repair attempts of plugging screw holes with wood had failed and left holes, some as large as 1/2" in diameter.

ing. The way we handled this type of repair was to construct a simple form, from posterboard and tape, in the shape of the missing part. We taped the form to the existing frame and poured the resin in, exactly like a miniature concrete pour. On large pieces we embedded one or more strips of fiberglass cloth in the resin, much like wire mesh in concrete. We found it more efficient to pour the resin in gradual stages rather than all at once.

When the resin work was complete, we let it cure for 24 hours. The final shaping was done by sanding and routing, just as if the new polyester section were wood. We primed and painted the shutters carefully, to avoid gumming up the vanes, and remounted the hardware. We wound up with a neat and sturdy job of prosthesis, worthy even of the wonderful old homes of Charleston. May they live through the fiercest winds to come. 

Special thanks to: Mr. John Laurens and all the other fine folks of Charleston.



A prime coat of thinned resin consolidated the damaged wood and provided a strong surface for the filler to adhere to.

EPOXY VS. POLYESTER RESINS

What's the Difference?

At first glance, it's hard to tell these two apart aside from cost. Epoxy and polyester are both synthetic resins: non-volatile, water-resistant, organic compounds with excellent adhesion and chemical resistance. Both are available in a variety of two-part systems for repairing wood and metal. However, they are derived from completely different chemical groups. Chemistry aside, here are their practical differences:

Cost: Epoxy resins are fairly expensive at \$40 to \$60 per gallon; polyester resins range from \$15 to \$30 per gallon.

Mixing: Epoxies must be mixed thoroughly for proper hardening. Polyesters don't require as thorough mixing.

Working/Curing Time: Epoxies have a wide range, from very fast to very slow, but tend to take longer than polyesters and often require warmer surface temperatures; most polyesters cure very quickly.

Type of Bond: Epoxies form a weld-like bond, and excel in adhesion to non-porous surfaces; polyesters form a secondary bond.

Shrinkage: Epoxies have a reputation for shrinking less than polyesters.

Flexibility and Hardness: Depending on the particular product and manufacturer, both types of resins can be formulated to provide excellent flexibility and hardness, but epoxies are available in a much wider range of formulations.

Shelf Life: Epoxies tend to have a longer shelf life, polyesters keep an average of less than one year.

Other: Epoxies generally can withstand a broader temperature range. Polyesters, however, often have better corrosion resistance.

Check with the manufacturer for specific product uses and limitations.

HISTORY • HARDWARE • HOW-TO TIPS

SHUTTER SOURCEBOOK

BY KURT HABEL



A BRIEF HISTORY

OFTEN MAINTAINED PURELY FOR DECORATION, window shutters and blinds originally served important functions. When closed, they protected house interiors from the elements and intruders. Shutters in northern climates were used primarily for extra insulation from the cold. In the South, however, blinds were designed to beat the heat. Frontier houses often had shuttered windows due to the scarcity of glass.

Early American shutters played the same role as doors and were often heavy, single-board, or battent-type (made with matched boards) that could be bolted and barred. They played a defensive role longer in the Southwest, where most were hewn out of heavy boards and often chiselled with ornate patterns. In the latter half of the 18th century, panelled shutters and louvered blinds began to appear. By the 19th century, designs matched the changes in window shapes. For example, bi-folds solved the problem of covering larger windows. Palladian and round-top windows created a need for curved stiles, and pointed Gothic windows required pointed shutters.

Prior to the 19th century, shutters were custom-made



Blinds became common for second-floor ventilation, while solid shutters maintained privacy and security below.



Shutters were often homemade from several boards joined on the back by horizontal battens.

by local carpenters and cabinetmakers using hand tools. With technological advances came more sophisticated shutters. Woodworking machines made the mass-production of moveable slats possible, and blinds became commonplace to provide ventilation. For those who could afford the convenience, interior styles became popular. Shutter hardware also increased in complexity (some designs required 40 items per pair), while reducing the difficulties of opening and closing shutters.

In the Victorian era, the importance of functional shutters began to decline. Up North, better plaster, multiple fireplaces, and new steam and hot water heating reduced the need for closing windows with shutters. Storm windows could block the cold without blocking the view. Vacation homes, however, still required working shutters for off-season security. Although woven-wire screens advanced ventilation at the turn of the century, blinds remained essential for temperature control in the South.

Shutter paint colors also reflected the transition to a more decorative role. The traditional black and dark green, common during the Colonial and Greek Revival periods,



These unusual double-width blinds may have been installed to shield carpets, paintings, and delicate textiles from sunlight damage.

were replaced by a great variety of color in the Victorian era.

In the 20th century, post-Victorian houses continued to be built with shutters, but many were tacked on simply for decoration. After World War II, combination storm windows made functional exterior shutters in the North less practical, but working blinds have endured as useful architectural elements in the South.

PAINTING AND MAINTENANCE TIPS

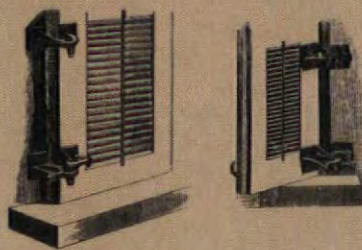
THERE'S NO NEED TO SHUDDER AT THE THOUGHT of shutter maintenance. Here are some simple tips that can save you time and trouble on a project involving one pair or 101 pairs.

- 13 Devise a system and label your shutters as you remove them. Carve or stamp the number in an inconspicuous spot, and record the number on a map of each side of the house.
- 14 Be prepared for birds, bees, and bats behind shutters. Residue on walls can indicate hiding places. Keep a can of hornet-bomb handy and note that most sprays will stain asphalt shingles. Early morning is the best time to remove inhabited shutters.
- 15 If slats, hardware, or other elements are missing, look for these pieces on the ground beneath the window, especially behind bushes.
- 16 Loose slats can be bowed back into place without disassembling the shutter. Secure with a 4d or 6d nail driven through the stile. Missing slats can be replaced with salvage from other blinds or lattice. Use a knife, coping saw, or sandpaper to shape the ends.
- 17 Helpful tools for hand-scraping slats are a carpenter's

SHUTTER GLOSSARY

13 TYPES

Shutter: A hinged or sliding system of boards serving as a moveable window cover. Can be made from a single board, a series of boards secured to battens, or panels set into a mortise-and-tenon frame. When closed, shutters block light, heat, cold, inclement weather, and intrusion.



Blinds with self-fastening hinges.

Blind: Often used interchangeably with shutter; window cover constructed with stiles, rails, and louvers (also called slats or vanes) designed to protect the window while allowing ventilation. Louvers can be fixed or moveable (rolling).

Venetian Blind: A blind with moveable slats; former name for adjustable exterior louvered shutters; usually refers to interior blinds which can be pulled up together by means of cords.

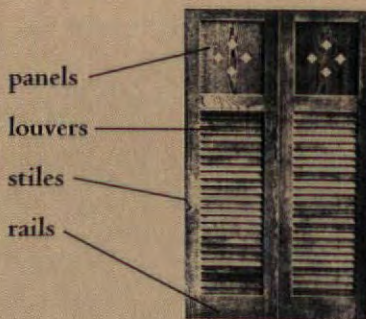
Indian Shutter: A misnomer, this term is commonly used in reference to interior panel-frame shutters, designed for privacy and insulation. Interior shutters built to fold into a recess (shutter box) provided for them in the window jamb are called box shutters.

Dutch Shutter: Shutters built in two sections (top and bottom) which operate independently.

Shutterette: A modern term for bi-fold interior blinds.

Jalousie: European term for a louvered blind. Occasionally used today in reference to interior bi-fold blinds.

14 PARTS



panels

louvers

stiles

rails

drawknife or an old kitchen knife with the blade stuck in a wood handle. Use an ice pick, awl, or screwdriver to pick out corners.

✚ For quick repair of loose rail-and-stile joints, square the shutter on a worktable, then drill a 1/4" hole through the joint and insert a glue-slathered dowel. Or, drill a shank hole and use a large brass wood screw then countersink and putty.

✚ Missing yoke pins can be replaced with rustproof staples driven in with needle-nose pliers.

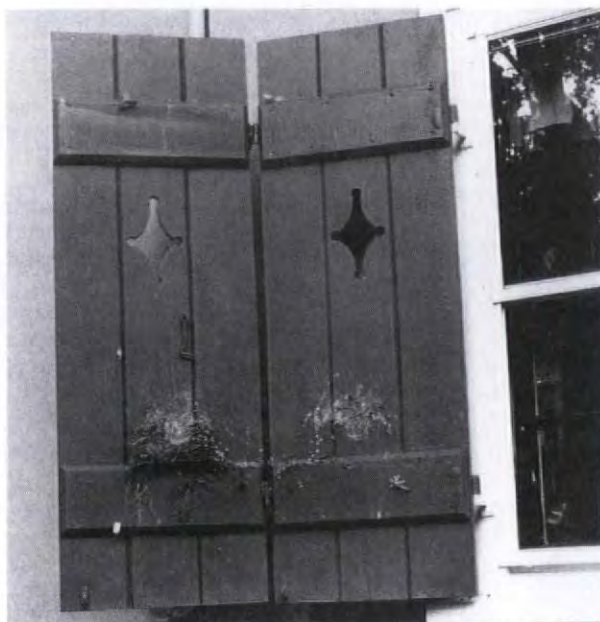
✚ To clean shutters before painting, take them to a high-pressure, do-it-yourself car wash.

✚ Prepare a storage spot for freshly painted shutters. If you lack a garage, barn, or shop space, use your lawn. Lay out a drop cloth, string a taut rope above, and lean the shutters against the line to dry. (Note: plastic tarps turn green grass yellow if left down too long. Also, avoid shutter-painting on a windy day.)

✚ For best primer penetration, mix one pint of Penetrol™ to 1 gallon of oil-based primer. Tint the primer to aid in one-coat coverage by a dark topcoat.

✚ Spraying is by far the quickest way to get paint onto fixed-slat shutters. Spray them leaning against a covered fence or stepladder. Use a dry brush to pull out drips and sags and work the paint into the wood.

✚ Paint the shutter's backside first. Start with the slat-ends



Birds and other critters often nest behind shutters.

and jab paint into the corners with a brush. This will ruin a good brush so don't use your best.

✚ For extra water protection, tack a strip of lead or copper flashing across the top rail and stile ends of the shutter. 🏠

✚ HARDWARE

Hinge: Attaches shutter to structure, or pairs of shutters to each other. Tremendous variety of styles



butt hinge



locking hinge



gravity hinge



book hinge



bulk strap hinge

and designs allow the shutter to pivot fully out of the window opening and lay flat against the wall, and also facilitate removal. Styles range from narrow shutter butts, to wide-swinging H hinges. Advanced shutter hinge designs include self-locking and gravity-locking features to hold the shutter in position.

Pintel Hinge: The fixed pin on which a removeable shutter leaf hangs; its mate is a pintel sleeve.

Shutter Dog, Turn, or Turn

Buckle: An S or dart-shaped fastener mounted to a wall or window sill to hold a shutter open, usually attached with a lag screw or drive nail.



shutter dog

Blind Fast, Fastener, Holdback: A spring-like device, either a moveable latch or curley-Q wire, mounted to the bottom of a shutter which clicks onto a back catch when opened, and a sill catch when closed.



sill catch

fastener



shutter bar

Shutter Bar: A pivoted bar for holding shutters closed.

Shutter Bolt: A sliding deadbolt which locks shutters closed.



shutter bolt

Shutter Lift: A handle fixed to a shutter for convenience in opening or closing.

Shutter Worker: A crank which opens and closes shutters from indoors, often incorporating a blind adjuster which holds the shutter or blind in a fixed position.

Yoke Pin: The pin or staple which secures a moveable louver to the centerpost of a blind.

SUPPLIERS LIST

CUSTOM SHUTTERS

American Heritage Shutters
2345 Dunn Avenue, Dept. OHJ
Memphis, TN 38114
(800) 541-1186
Exterior and interior; custom finishing.

Beech River Mill Corp.
Old Route 16, Dept. OHJ
Center Ossipee, NH 03814
(603) 539-2636
Exterior and interior; hardware.

The Coldren Company
PO Box 668, 100 Race Street, Dept. OHJ
North East, MD 21901
(410) 287-2082
Exterior, from original patterns; hardware.

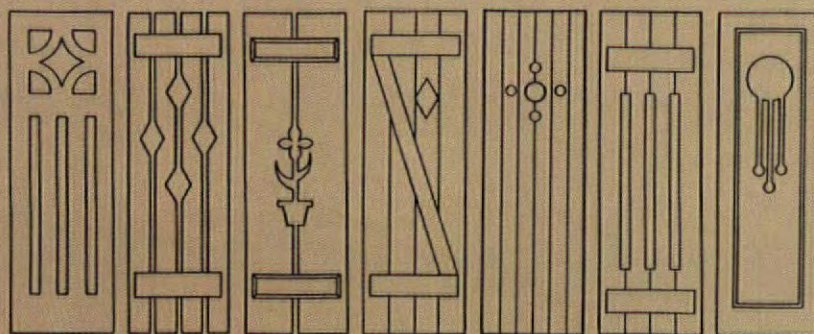
Devenco Products, Inc.
2688 East Ponce de Leon Avenue
Dept. OHJ
Decatur, GA 30030
(800) 888-4597
Exterior and interior; traditional joinery.

**Palmer Creek Hand-Hewn
Wood Products**
PO Box 3313, Dept. OHJ
Santa Rosa, CA 95402
(707) 578-0870
*Exterior and interior, using antique hand tools;
can supply hardware.*

Rem Industries
Box 504, Dept. OHJ
Northboro, MA 01532
(508) 393-8424
Exterior and interior; exterior hardware.

The Shutter Depot
Route 2, Box 157, Dept. OHJ
Greenville, GA 30222
(706) 672-1214
*Exterior and interior, all types; unfinished or
custom painted; hardware.*

Shutter Craft
282 Stepstone Hill, Dept. OHJ
Guilford, CT 06437
(203) 453-1973
*Exterior and interior; panel cutouts; unfinished
or custom painted; hardware.*



Classic blind designs from the 1930s.

Ray Tenebruso, Cabinetmaker
2842 Gaston Road, Dept. OHJ
Cottage Grove, WI 53527
(608) 839-4518
Exterior and interior; traditional joinery.

Vixen Hill Cedar Shutters
Main Street, Dept. OHJ
Elverson, PA 19520
(800) 423-2766
Exterior; traditional joinery.

Woodpecker Products, Inc.
1010 North Cascade, Dept. OHJ
Montrose, CO 81401
(800) 524-7055
Exterior and interior.

INTERIOR SHUTTERS
Maplegrove Restorations
PO Box 9194, Dept. OHJ
Bolton, CT 06043-9194
(203) 742-5432
Colonial and Victorian raised or recessed panel.

Stanfield Shutter Company
3214 South 300 West, Dept. OHJ
Salt Lake City, UT 84115
(801) 467-8823
Panel and louver, fixed and moveable.

ANTIQUE SHUTTERS
The Bank Architectural Antiques
1824 Felicity Street, Dept. OHJ
New Orleans, LA 70113
(800) 274-8883
Antique and custom-made; cypress; repairs.

Monroe Coldren & Sons
723 East Virginia Avenue, Dept. OHJ
West Chester, PA 19380
(215) 692-5651
Restored originals and custom-made; hardware.

STOCK HARDWARE

Acorn Manufacturing Co.
457 School Street, Box 31, Dept. OHJ
Mansfield, MA 02048
(508) 339-4500
Forged iron shutterdogs and hinges.

Addikson Hardware Co.
126 E. Amite St., PO Box 102, Dept. OHJ
Jackson, MS 39205
(800) 821-2750
Specialists in fine decorative hardware.

Ball and Ball
463 West Lincoln Highway, Dept. OHJ
Exton, PA 19341
(215) 363-7330
Stock or custom; can repair or copy originals.

Crown City Hardware Co.
1047 North Allen Avenue, Dept. OHJ
Pasadena, CA 91104
(818) 794-1188
*Holdbacks, hinges, and shutterbolts in brass
and iron.*

CUSTOM HARDWARE


Kayne & Son Custom Hardware
76 Daniel Ridge Road, Dept. OHJ
Candler, NC 28715
(704) 667-8868
*Hand forged and cast; iron and brass; repairs and
reproductions.*

Windy Hill Forge
3824 Schroeder Avenue, Dept. OHJ
Perry Hall, MD 21128
(410) 256-5890
Hinges, slidebolts; holdbacks in stock; restoration.

LATHE-TURNED STONE

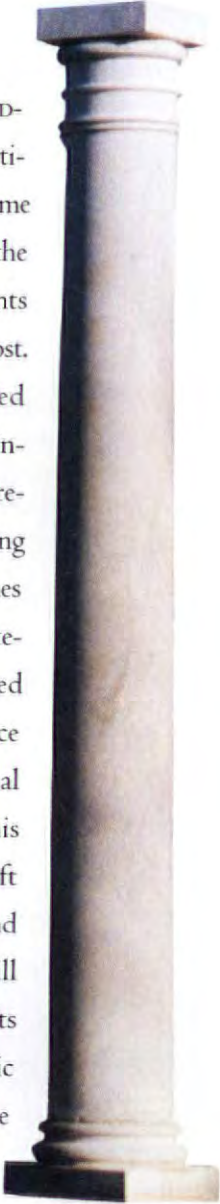
Making Columns and Balusters from Raw Stone

BY JACOB ARNDT



STONE HAS A WAY OF GIVING SUBSTANCE AND STATURE TO A BUILDING. Round or fluted columns that support a porch or portico help introduce the facade. When balusters and finials frame an entrance walkway or a second-storey deck, they give the structure rank and presence. Unfortunately, architectural elements made of stone can be difficult to replace when they are damaged or lost.

Substitute materials, such as cast concrete or extruded polystyrene, are frequently used to replace architectural stone in-the-round. At street level, though, these imitations sometimes create structural or aesthetic problems. At other times, the building owner may simply insist on using real stone. In these cases it becomes necessary — and to my mind preferable — to match existing deteriorated stone with new stone. When these elements are turned columns, balusters, finials, and pedestals, it is possible to reproduce them on a specially made lathe. The cost of fabricating the real thing is in some cases comparable to the cost of substitutes. This is especially true with limestone, a very uniform and relatively soft material that yields evenly to the stone dressing tools — chisel and point. And it is likely that the stone restorers will encounter will be limestone or an equally soft stone. We have had good results turning dolomitic and even bisant limestone (with its characteristic voids and inconsistencies), though these stone types are brittle and take a little practice.



*Solid limestone columns shaped as one piece
on a user-built lathe.*

Although we're accustomed to thinking of lathes as high-tech, micro-tolerance machines that cost thousands of dollars, the essentials are simple. The only special components for a stone lathe are a variable-speed electric motor, some commonly available bearings, and 1" diameter steel pins. A hardened-steel or carbide bit on a traveling tool rest does the cutting; putting a Dremel tool or deburring device onto the same rest will rout fluting details.

All of the hardware is easy to find. There is no need for three-phase electricity or other industrial-grade equipment, and you can set up near the job site or use your available shop space. Because balusters, finials, or pedestals are more likely to need replacing than columns, weight is not often a major concern. On occasions when it is, chain hoists do the trick. Chances are, the stone you'll be replacing was turned by a quarryman or rough mason on a simple device similar to the one described here.

Ordering Materials

START WITH A BLOCK OF STONE SAWN FOUR SIDES TO ROUGHLY the diameter of the original. It doesn't hurt to send a sample of the stone to the quarry so the quarrymen can extract from the area that matches best. Let them know you are turning the stone and that it must be free of fissures and other impurities. The stone for 12"-diameter columns were ordered cut at 13 1/4" x 13 1/4" x 9' from a quarry in Bedford,

Indiana, that supplies almost all building limestone. Estimate 135 lbs. per cubic ft. if ordering Indiana limestone. Your local mason or masonry supply yard should be able to tell you where other matching stone is quarried. Try your mason's supply for small-dimensioned stone. They may have 6" x 6" square stock available for balusters and pedestals, or they'll know where to get it in a timely way.

Before the square-cut stone arrives at your shop, be prepared with a suitable bench. For a 1,200-lb. column, I used 2x6 lumber for a solid work surface and doubled it up to make 4x6 legs. Then I nailed on 3/4" plywood gussets for braces. Make it sturdy. The stone turns a rather leisurely 80 rpm, but you want to feel comfortable standing next to it and working — sometimes aggressively during the initial stages — to "waste off" excess stone.

Have a hoist on an I-beam handy at the shop if you have large columns to turn. Set the bench under an overhead I-beam track for easy loading and off-loading of the finished piece between truck and bench. I-beams are so reasonably

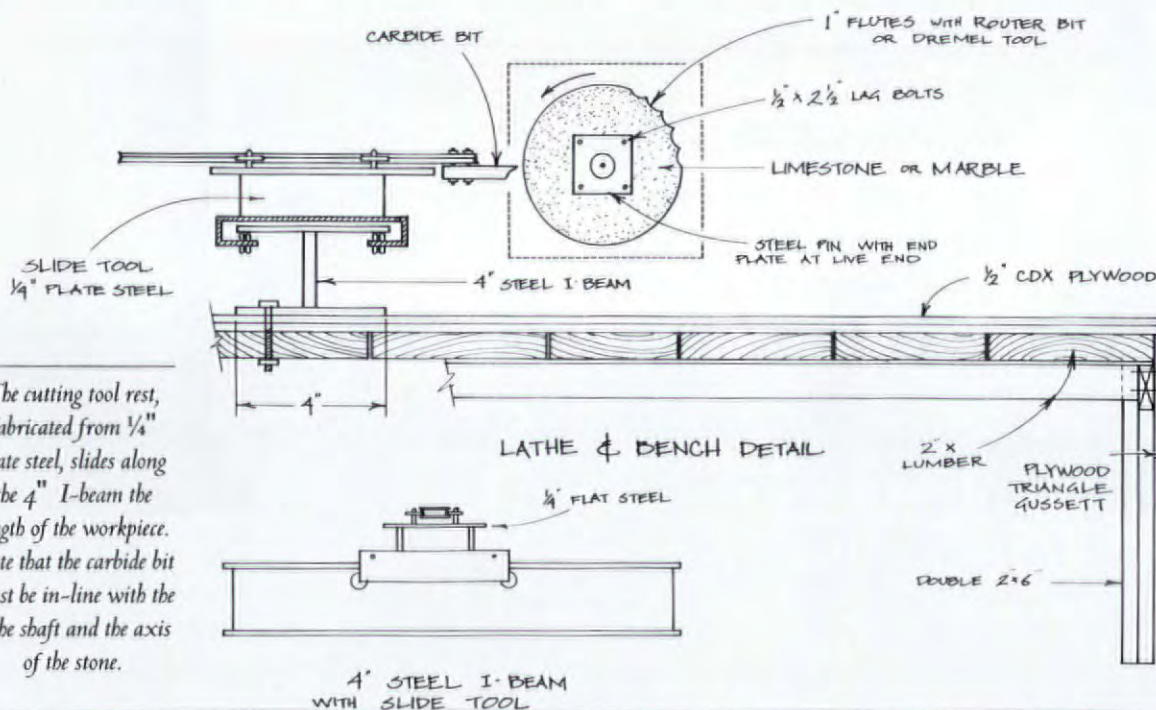
priced that you won't want to bother with other lifting and positioning devices such as a fork lift or rolling dolly.

Shopping for Hardware

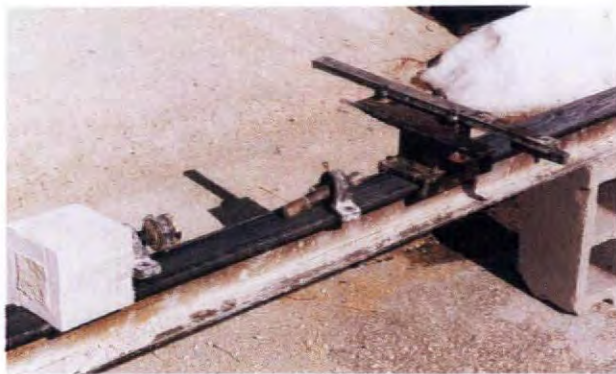
FARM OR POWER TRANSMISSION EQUIPMENT SUPPLY COMPANIES will have the hardware necessary to put together the turning portion of the lathe. Study the detail of motor, steel



The drive train of the lathe: electric motor (at left in photo); right-angle reduction drive (under motor); Lovejoy coupling (center); steel shaft mounted in pillow block (right).



The cutting tool rest, fabricated from 1/4" plate steel, slides along the 4" I-beam the length of the workpiece. Note that the carbide bit must be in-line with the lathe shaft and the axis of the stone.



Details of the tool rest (bit faces camera), the I-beam slide track, and two pillow blocks with steel pins — the custom-made parts of the lathe.



The motor/coupler assembly as well as the pillow blocks must be raised to the correct height (lumber works well) for the bit to cut properly.

shaft, Lovejoy coupling, and pillow blocks to become familiar with the mechanical hardware. A pair of pillow blocks (bearings set inside of cast-iron mounts) will be needed to accommodate the 1" steel shafts that hold the stone on center at both ends. On the same shelf as the pillow blocks you will also find a Lovejoy coupling, a rubber-fingered device that acts as a buffer between the motor and the heavy stone.

Next, locate a variable-speed electric motor with about 250 ft.-lbs. of torque that turns from 12 to 80 rpm. The variable-speed motor drives the Lovejoy coupling that receives the 1" shaft. The shaft is embedded in the stone and is supported by the pillow blocks. Before mounting the motor on your bench, acquire a 4" I-beam and secure it parallel to the stone as a tool rest. The beam will be the tool guide or track for the cutting bit.

Get help from a local welder or tool-and-die mechanic to set up a rolling tool rest. This device will hold the cutting tool and allow you to slide it along the I-beam. If your mechanic is handy with welding plate steel and minor fabricating, have him do the job of fitting rollers and steel together, as in the machine shown here (see photo above). You will find that small job-shop personnel are invaluable help once they get past their bias for close tolerances and precision machining. You only want the stone to be round: basic round.

Assembling and Lining Up

IT IS VERY IMPORTANT THAT THE CUTTING TOOL RESTS PERPENDICULAR to the stone at the same height as its axis. The cutting bit should be an extension of the stone's radius — that is, positioned so that it is always perpendicular to the midpoint as you slide the cutting tool along the length of the stone. If the cutting point hits lower than center, the tool

will be dragged under the turning stone; if it hits higher than center, the tool will fail to cut at all.

The height of your I-beam and sliding tool rest will be determined by the height of your stone, which is raised just enough to clear the bench and turn freely. Naturally then, the Lovejoy coupling, pillow blocks, and motor position must be high enough to give the stone this clearance —



At first, it is faster to saw and chisel off high points to achieve the rough-round cylinder (note reference circle drawn on end).

at least 9" above the bench for a 12" square column. On our lathe, the motor and pillow blocks were shimmed to height using readily available 2x lumber and plywood. It becomes apparent just how far you'll need to raise the motor and pillow blocks above the bench surface once you bore holes in the stone for the end-shafts.

Depending on the size and weight of your stone, bore holes 4" to 7" deep in each end to mount the 1"-diameter steel shaft pins. Secure the pins with cement (regular hardware-variety anchoring cement works fine) and use Acryl 60 bonding agent in the mix to improve adhesion. For the motor-driven end, weld a steel plate to the pin and anchor

that into the stone with $\frac{1}{4}$ " lag screws cemented into $\frac{3}{8}$ " holes (see drawing). When drilling holes for the pins, avoid off-center wobble by getting the pins in straight with a framing square or other guide.

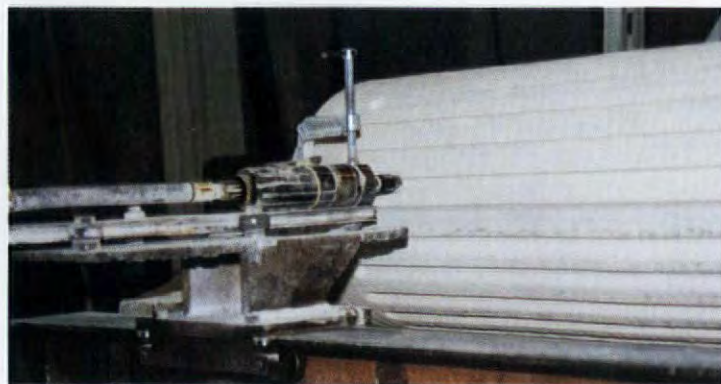
Position the pillow blocks after making sure everything is in-line and parallel to your I-beam slide track. Lag-screw them into place. Turn the stone manually to make sure it is spinning freely. Then mount the motor and Lovejoy coupling, and you're ready to turn the stone.

Turning and Truing

YOU MAY BE DISAPPOINTED TO LEARN THAT THE LATHE ACTUALLY does only about the last 10% of the work to make a piece round. Before you begin turning, chisel away the high spots to shape the stone into a rough cylinder — always being careful not to go too deep.

Begin the shaping process by cutting a circle template from construction paper to match the diameter of the stone you need. Then trace the circle onto one end. Imagine that circle having depth through the length of stone to form a cylinder. Snap a chalk line along the length of the stone to mark the base of the corners that you want to remove. Stay $\frac{1}{4}$ " away from the finished cylinder, or where the curve begins. For your initial draft, use the 2" chisel and a hammer to waste away these 90-degree angles, being careful not to dig too deep and gouge into the round. Use the chalk lines as a reference to guide your work.

Once you have finished the first pass with chisel and hammer, the lathe can be used to mark the stone for initial round. Mark the stone with the cutting point to establish rough, then chisel some more until you're comfortable with the lathe's ability to take off the remaining waste in good time. At first your tool will strike perhaps two blunted corners, then three, then four, until you can use a wider point to take the piece to round. Initially, though, anticipate at least seven or eight passes of chiseling and then marking with the cutting point.



To create flutes, start with a saw kerf, then shape with a series of router bits ($\frac{1}{4}$ ", $\frac{1}{2}$ ", $\frac{3}{4}$ "), and finish with a 1" bit.



(top) Initially, the lathe is only used to mark the stone and establish round for the chisel work. (above) Later, the lathe is used continuously for final shaving of the workpiece to finish round.

You'll be most efficient if you ignore the lathe as a shaping tool and use it only to provide you with reference marks in the stone. Think round as you take away excess material with the chisel after marking. Be careful not to chisel too deep into the finish stock. When you have more scraping than bumping while turning the piece against the cutting point, you are ready to use the wider point and, finally, finish to round with the lathe.

Flutes, Entasis, and Ornamental Contours

ONCE YOU HAVE A ROUND CYLINDER YOU MAY NEED FLUTES, entasis (the gradual narrowing at both ends of the column), or ornamental contours for the finished piece. For flutes, mark the stone using the paper template made to establish the initial cylinder. Measure the distance across each flute on the original column and take note of the width of the rib between each groove. For 1" flutes on a 12"-diameter column, there are $\frac{3}{8}$ " ribs between grooves. The least confusing reference point is the center of the rib, so establish the distance from rib center to rib center around the column until you have them all marked in a complete circle. Make sure the center of each rib is equidistant around the column and use that line as your reference.

If your motor permits access, open the end and expose the flywheel so that you can use it as a kind of index. Note

the number of hand-turned revolutions it takes to reach the center of the next flute rib. It will save you much adjusting and measuring time if you count the exact number of revolutions per stop.

To make 1" wide flutes (grooves), first saw a kerf with a circular saw. This kerf will be the center of your flute. Set your blade depth to match the existing columns — probably a good $\frac{5}{8}$ " to give it definition. After sawing the initial kerf for each flute, set up your router on the tool rest and begin with a $\frac{1}{4}$ " router bit to open up the kerf. Next use a $\frac{1}{2}$ " carbide router bit, then a $\frac{3}{4}$ " bit, and finally a 1" bit to finish. To clean up the machine marks left in the groove, use a 1" diameter steel shaft wrapped with 80-grit sandpaper to hand-smooth the flute. Finally, use a belt sander to remove the machine marks on the flute ribs. Starting with a 12" x 12" x 9' block of stone, a 12" diameter limestone column with 1" flutes takes one man approximately three days to complete.

Be sure to finish the end of the flute detail on the column with each pass; don't plan to go back later to clean up and make them even. Remember, there are some 30 flutes in a 12" diameter column, and each complete treatment takes a couple of hours. Do not leave details for later. While you are indexed into position, finish each application.

For entasis, use a straightedge to measure the distance from maximum diameter the column tapers at the ends. Stay-




Detail work on balusters with ornamental contours is done by hand with chisels, rasps, and a grinder.

ing $\frac{1}{8}$ " from final depth, gradually reduce the ends of the column with the cutting bit, then ease off that depth as you slide the bit closer toward full diameter at the center of the column. Finish the gradual narrowing free-hand with an angle grinder, smoothing out the cutting marks and completing the entasis. Use a belt sander with 80-grit paper for the final operation.

Take a similar approach for ornamental contours in balusters. Gauge the deepest profile and give yourself corresponding reference marks on the slide tool guide. Repeat these marks at each prominent feature to match the contours of the existing balusters. In turning, the lathe point will get you to the gross depth and gross contour. Then use the wider blade and turn closer to final. In the end, experiment with files and abrasives to smooth the ornamental contours as the piece turns. Touch-up and finish work can be done with an angle grinder and belt sander.

When the time comes to install columns or balusters, it is convenient to leave the steel shafts embedded in the stone, especially for larger pieces. The steel shaft can be welded to iron I-beam headers and dropped into drilled pockets for structural stability. Also, the pins come in handy for hoisting the heavy columns into position. If capitals or plinths are part of the restoration project, the pins can be cut easily after the columns are put in place, and capitals then sandwiched into their proper position. Stainless-steel shafts should be used if they are to become a permanent part of the column or baluster.

I consider lathe-turned stone building components — pillars, balconies, pedestals, and finials — as replaceable as the informal geometric elements of early stone buildings. The comparatively small amount of extra effort required to reproduce monumental stone is justified by its contribution to the dignity and aesthetics of a structure (and the neighborhood). Furthermore, any mason who works on such a project will be excited when his skills are challenged. 

Once a column is finished, stainless-steel pins can be left in place to make handling and installation easier.



Jacob Arndt specializes in historic masonry in the Midwest: Northwestern Masonry & Stone, 5025 Sheboygan Ave., Madison, WI 53705.

ANYTHING - GOES -

PART II

Exterior Color Options for Romantic Revival Houses • By John Crosby Freeman, The Color Doctor

ANYTHING GOES" WAS ONCE THE MERCHANDISING ethic of American speculative builders. In the early decades of the 20th century, they fumbled and fondled their innocent audiences with amazing manipulations of architectural history that looked "right" and were priced right to sell.

Colonial house plans of the period might be Adamized, Georgianized, Dutched, Spained, or sent South. Sometimes they were given additional flavoring from the spice shelf of medieval revival architecture: a dash of Tudor half-timbering, a dollop of Cotswold exteriorized vestibule, a pinch of Victorian Gothic oriel or bay window. A bungalow roof or a Mediterranean piazza supplied extra taste. Reversing this design process yielded bungalows that were Colonialized by Palladian windows, Adam entrances, and neoclassical colonnades. So much variety resulted in many weirdly wonderful designs, but few examples of really ugly housing.

I use the term Romantic Revival for these Anything Goes houses. Sorting out the color options for buildings with such a melange — and sometimes a muddle — of exterior elements in historic styles takes an understanding of where the builders and designers were coming from, but this can be fun. Part I featured Bungalow, Dutch Colonial, and Foursquare houses sided with shingles and clapboards (May/June 1991). Here we'll look at Spanish Colonial and Tudoresque homes that make use of stucco.

COLORFUL STUCCO

COLOR HAS NOT ALWAYS BEEN USED TO SELL PRODUCTS. MEN, in particular, often resisted the notion, and Henry Ford's dictum about supplying "any color so long as it's black" is legendary. During the 1920s, however, fashionable Americans

— especially newly empowered women — voiced their joy of color in the marketplace. This forced building products during the Jazz Age to join the joyful noise of color. "The popularity of colored or tinted stucco surfaces," announced an ad for mortar colors, "is increasing rapidly." The Portland Cement Association encouraged this trend, and major paint makers promoted multicolor textured stucco effects using cement paints glazed and accented with tinted linseed oil.



Pigmented stucco promoted in a 1920s ad.

Blending glaze and accent colors on top of a ground color uses the same technique employed in "Tiffany Glazing," a finish fashionable for Romantic Revival interiors. Experimenting with today's quick-drying latex paints can produce a similar effect. In Tudoresque or Spanish Colonial homes, the major trim was stained or painted a near-black color to make it look weathered by the centuries. With this in mind, the ground color of stucco panels defined by this near-black half-timbering should be a light and slightly grayed tint of its complementary color. For example:

- Greenish-black trim is energized by a ground of pink, peach, coral, terra-cotta, old gold, or amber.
- Bluish-black trim is enlivened by a tan or beige ground.
- Deep maroon trim is excited by a green ground.
- Dark brown trim is stimulated by a ground of ochre, slate blue, or heather.

When blending, make the glaze color a slightly darker tone of the ground color; make the accent color an enriched tint of the trim color.

GLAZING EXTERIORS

BEGIN BY MASKING OFF THE TRIM PRIOR TO CLEANING AND repairing the stucco panels. In addition, seal the stucco with masonry conditioner to aid adhesion of the latex paint



The vaguely Spanish "Anything Goes" houses of the early 20th century drew on an eclectic vocabulary of Moorish, Byzantine, and Pueblo details. Along with tile roofs, stucco played a major role, especially when colored in coral tints.

topcoats. Then apply ground color in a semi-gloss or gloss latex paint to enhance its appearance in highlights. Follow the manufacturer's recommended timetable for recoating.

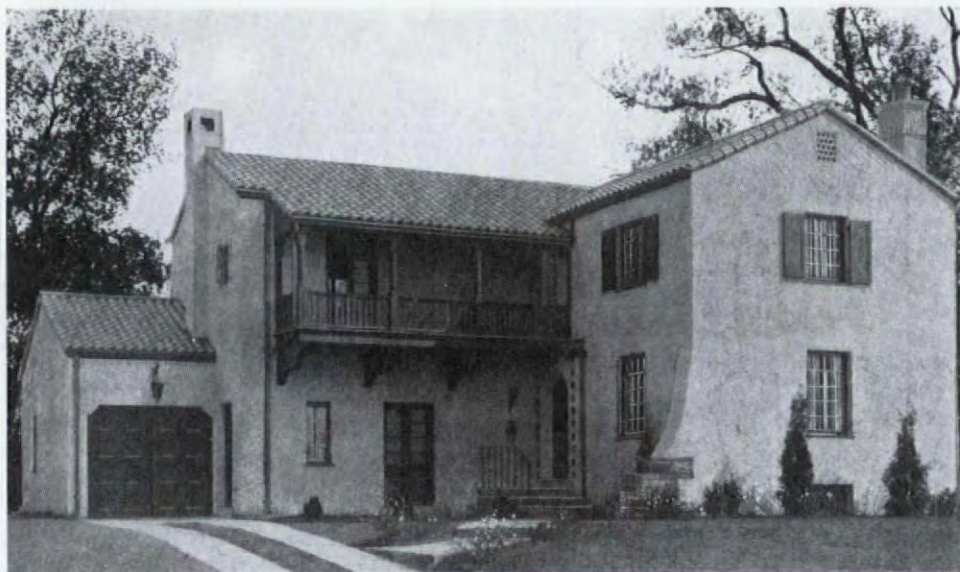
Satin finish paints are best to try for approximating the glaze and accent colors. First, randomly brush a few spots of accent color on some small areas towards the center of the stucco panel. Next, lightly load a brush, natural sponge, or wadded rag with glaze color. Apply the glaze from the outside edges of the panels towards their centers, allowing the accent spots and some random streaks of the ground color to peek through. As your applicator releases less paint, the glaze color will appear to fade towards the center into the ground color. Then, use clean, dampened cloths to wipe some of the glaze color off the lighter gloss highlights. With a clean, dry brush use a lop-sided figure-eight stroke to soften and blend the patches of color. Here's what today's quicker-drying latex paint requires:

- ☛ Don't paint in the sun or during a day that's hot and dry.
- ☛ Don't dawdle during blending.
- ☛ Don't water-down the paint. If you want to extend the wet-edge time, add latex paint conditioner (such as Floetrol by The Flood Company) available at most paint stores.

Finally, remove the masking tape from the trim and apply satin-finish paint in the near-black trim color. (Accidental flecks and dribbles on the stucco will aid the artistic effect!) The best panels will exhibit the fluidity and accidental quality of a watercolor painting. To add cunning to your hand, you might first practice this technique with watercolors on watercolor paper, followed by your paints on scraps.

THE HAPPY HACIENDA

THE BIGGEST CHALLENGE OF THE "THE ESCONDITO," FROM the *Home Builders Catalog* of 1928, is its vast square footage of textured stucco scarcely relieved by trim. The solution starts with dividing the ground color stucco found between trim lines and outer edges of walls into smaller, amorphous areas. If the boundaries of these areas were drawn with a pencil, the wall would appear to be covered with an elegant assortment of amoebas. Each of these amoeboid shapes would then be mottled with glaze and accent colors. The glaze color always will be darkest at the edge of an architectural feature and absent or lightest in the center of a mottled shape. Spots of accent color never appear for their own sake, only to enliven an area. When done properly, the walls will look



The unbroken expanses of stucco on "The Escondito" can create a palette for experimenting with color.

like they have been water-colored by an artist.

During the 1920s and 1930s, the least adventuresome schemes "antiqued" a ground color of ochre-based yellow, cream, ivory, or buff with a linseed oil glaze colored with an umber or sienna. Other schemes were grounded in a safe ochre, olive, or gray, and glazed with prussian blue and chrome green. The exception was stucco coral tint, which still sym-

bolized Spanish Colonial Revival in its homelands of Florida and California. Color illustrations of the period tend to look more pink-than coral. Most stucco coral colors were tints of burnt sienna. To find them in the color selector of today's paints, look for these grayed coral colors under such passwords as "coral," "hacienda," or any

oblique reference to the American Southwest or Spain. The romantic balcony of "The Escondito," which also functions as a canopy of the entrance stoop, would be painted a weathered wood color. A conservative color for windows, sash, and doors was ivory. More exciting schemes used a vivid orange, blue, or green, especially for shutters and blinds. Alas, today you can't find these accent colors in the ordinary spectrum of exterior colors. Look for them in your dealer's selection of industrial maintenance coatings.

COLORFUL ROOFING

THE HOUSE-CALL FOR COLORS WAS ANSWERED FROM THE top down. "In this day of color consciousness," a 1928 ad declared, "roofs can no longer sell which are drab or colorless."



"Double-Dipped" shingles, one of several '20s products.

Makers of asphalt, slate, asbestos-cement, and wood shingles showed consumers how to emulate artistic effects with puddles of product color. You can do it today by pre-coloring wood shingles with semi-transparent stains.

Proportion the shingles among three or more colors, avoiding bleached whites. Make, say, 60% a dark color, 30% a mid-tone color, and 10% light. Don't repeat these colors below the roofline, except on shutters and the darkest awning stripe.

If your Romantic Revival home retains its original asbestos-cement roofing, you can achieve a similar effect with paint. All it takes is careful cleaning, a coat of masonry sealer, and latex paint colors in a satin sheen. Apply right on the roof.

YE OLDE ENGLISH DUPLEX

THE "GRAYSON," FROM THE HOME BUILDERS CATALOG IS A sheet-cake 24' x 33' duplex apartment house frosted with shingles and decorated with half-timbering.

Multi-colored shingles in weathered grays might be appropriate for this house's roof, but not for its walls. Here an olive brown will subdue them to a bland background for the

Stucco color suggestions for the 1930s from a Sherwin-Williams brochure: (left) sea green with verdas green trim; (middle) white with Spanish blue trim; (right) cream with tobacco brown trim.



The functional form of the "Grayson" could be brightened by selectively emphasizing parts of the half-timbering with color.

decorative half-timbering. A dark green for the major trim would also be applied to any gutters and downspouts.

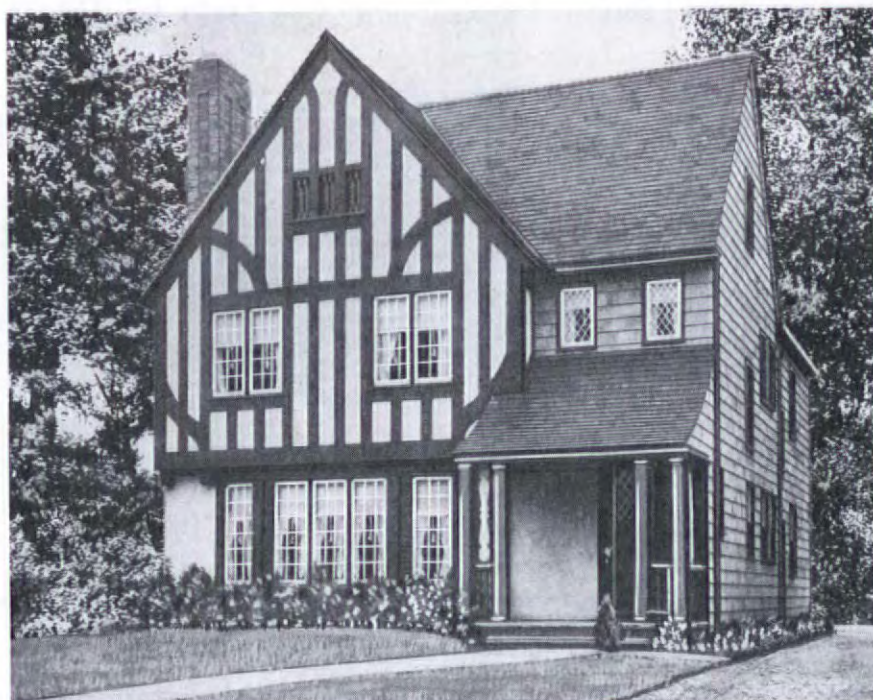
To my eyes, the only fun feature is the "spectacles" effect in the half-timbering. This is created by the face boards around the double windows joined by a "nose-piece" and the curved timbers apparently linked to them. This could be subtly emphasized by painting these boards with a secondary trim color that is a slightly lighter version of the major trim color. This also makes the closely spaced half-timbering appear less ponderous.

"Painting out" the sash in the half-timbered areas stops their competition with the patterns of the boards. Paint the double window sashes the secondary trim color and the attic sash the major trim color. As for the sash below, I would accent them with a dark red to emphasize the muscularity of the window casings and insinuate their support of the half-timbering above.

The stucco ground color and glaze color are variants of the shingle color. If you are adventuresome, blend in a dab or two of the accent red with the glaze color in each panel. Consider using the accent red on the latticed sash in the shingled areas of the balusters of the porch. Use the lighter trim color of the half-timbered area as the major trim color of the porch. Use the darker trim color for the hand- and foot-railings.

I try to follow four rules when I help owners of Romantic Revival houses revitalize them with color and design:

- Find out what you've got — Scratch, pry, peek, and peel



until you have a complete catalog of its profiles, textures, and materials.

- Reveal what you've got — Remove later diseases of aluminum, vinyl, and paint.
- Celebrate what you've got — For example, your personal taste may not include face brick with many patterns, textures, and colors, but it gives a historic uniqueness to your home so try to be proud of it.
- Do the best with what you've got — There are many authentic ways to enhance architectural details, shingles, and stucco with colors. Use those that please and you will experience the sensation of responsible liberty called "Anything Goes."

John Crosby Freeman is a color and design consultant specializing in Romantic Revival buildings (1601 Sheridan Lane, Norristown, PA 19403; 215-539-3010).

SUPPLIERS LIST

Benjamin Moore & Co.
51 Chestnut Ridge Road,
Dept. OHJ
Montvale, NJ 07645
(201) 573-9600
*Historical Colors Line; contact
for nearest dealer.*

Finnaren & Haley, Inc.
901 Washington St.,
Dept. OHJ
Conshohocken, PA 19423
(215) 825-1900
*Historic Philadelphia colors;
contact for nearest dealer.*

Fuller-O'Brien Paints
395 Oyster Pt. Blvd.,
Dept. OHJ
S. San Francisco, CA 94080
(415) 761-2300
*Cape May colors; contact for
nearest dealer.*

Martin-Senour Paints
101 Prospect Ave.,
Dept. OHJ
Cleveland, OH 44115
(800) 542-8468
*Preservation Palette; contact for
nearest dealer.*

FINISHING TECHNIQUES FOR THE MAGIC OF LINCRUSTA

"Want to cover your walls with the latest wallcovering or update those dingy, cracked plaster walls and especially ceilings? Then your material of choice is Lincrusta-Walton or Anaglypta."

AS THIS PERIOD ADVERTISEMENT REMINDS us, turn-of-the-century tastemakers considered the embossed wallcoverings called Lincrusta-Walton and Anaglypta to be "utopian" materials.

Both were extremely durable, making them ideal for high-traffic areas, notably dados in offices, hallways, and dining rooms. Once finished, they were washable and therefore considered sanitary, a highly touted trait. Most importantly, their off-white raw state could be finished to resemble any number of more expensive materials, including carved wood, stamped metal, and antique plaster — even tooled and gilded Cordovan leather.

Lincrusta-Walton and Anaglypta are still produced today. Only a few of the patterns are the originals, but many new designs have a period feeling. With some practice and patience, you can create those stunning decorative finishes for your period interior. These materials, so affordable, durable, and satisfying to finish, may become your material of choice, too! ■ LINCRUSTA AND ANAGLYPTA ARE BOTH VICTORIAN-ERA WALLCOVERINGS, AND

both are embossed in a variety of style vocabularies from Classical to Art Nouveau. But the materials are different in composition. Lincrusta-Walton was first produced in 1877 by the inventor of linoleum, Frederick Walton. Lincrusta is a linseed oil (*lin*) mixture with deep, solid relief (*crusta*). This mixture of linseed oil and fillers is put through an embossing machine under great pressure to create the sculpted pattern. Then it's backed and hung to dry. The result is a wall-covering touted as "indestructible" — a reputation it apparently lives up to, given the number of original examples still found (often when all else is gone).

BY JONI MONNICH



Durable, embossed Lincrusta and Anaglypta wallcoverings are purchased by the roll, unfinished.



**FREDERICK
WALTON**



Joni Monnich (above) is a professional paint decorator — and a former OHJ editor — working in the San Francisco Bay area and nationally; (510) 273-9777.



Classical friezes, applied at the top of a wall, are a popular use for Lincrusta.

Anaglypta, a similar material invented in 1887 by a Walton factory manager named Thomas J. Palmer, developed out of Lincrusta's enormous popularity. It also has a deep relief that it retains even when wet with wallpaper paste, but unlike its predecessor, Anaglypta is made from cotton pulp. The result is a lightweight, embossed material ideal for hanging on ceilings, over uneven surfaces, or even on rounded ones. A five-panel box of Lincrusta dado typically costs about five times as much as a roll (10 panels) of a similar Anaglypta dado. (For more historical background, refer to the October and November 1982 issues of *Old-House Journal*).

GETTING STARTED

INSTRUCTIONS FOR PREPARATION AND HANGING COME WITH the material, of course; use one of the recommended adhesives. After the wallcovering has been hung, let the adhesive dry for at least two to three days before you prime. (This is especially critical with Lincrusta because its linoleumlike surface is less permeable, and drying is slow.) Prime Anaglypta with a faster-drying latex (water-based) primer so as not to raise the nap of the paper. Prime Lincrusta with an alkyd (oil-based) primer. I highly recommend tinting the primer a pale color that is lighter than your base color. This contrast will enable you to spot any areas you might have missed, especially small recesses in the relief.

After priming, apply an alkyd base coat to the wallcovering in a shade appropriate for the finish you're trying to achieve (more on this later). I recommend applying both primer and base color with a brush. Although it's more time consuming, brushing allows greater control in making sure

that the relief is completely covered, even in the recesses; otherwise, raw material will absorb the final glaze coat, leaving dark spots or an uneven finish.

Onto the fun part: choosing a finish. No hard-and-fast rules apply, so let your imagination go. Think about house museums you've visited or photos you've seen in books and magazines: Was that *really* wood, leather, metal, or plaster on the ceilings or walls? Maybe it was an imitation, a faux finish like the one you're about to create.

After you've hung the Lincrusta or Anaglypta, take some remaining pieces to use them as "sample boards." Practice with colors and techniques on these pieces until you get the desired finish. Then move onto your prepared surface. I believe that anyone can create the finishes I'll describe below. If, however, you are trying to finish a long, continuous run, I do recommend enlisting the services of a professional paint decorator. These descriptions could also serve as guidelines or inspiration for a local craftsman.

BEGINNER'S TECHNIQUES

Simulated Plaster Ornament One of the easiest finishes, this technique requires nothing more than a quality artist's brush and patience. (It's an ideal activity while you're watching TV or Bogart movies.) It's most appropriate and visually effective when used on a frieze.

First, choose an appropriate basecoat — for example, paint the background pale lavender-grey or pale green-grey for a Colonial Revival or Edwardian feeling. After the base coat has dried, take an artist's brush and carefully paint the raised areas an off-white plaster color. When this technique is used on a frieze, you don't

have to get the "plaster" edges exactly perfect because of the height. At any rate, you'll find that the relief makes for an easy line to follow; it's just time consuming!

For an extra touch, pick out small details and highlight them with Dutch metal powders in a wax medium. These are offered in a wide variety of colors including several shades of gold, silver, and copper. Wrap a clean rag around your finger and dip it into the Dutch metal medium. Then rub or burnish the metallic powder onto the area you wish to accent — lightly rubbing usually does the trick. Personally, I like a little unevenness so that it has an aged look.

You can simply leave this shiny surface. My prefer-



Simple but effective: White paint on raised areas simulates plaster decoration; the beaded swags were "gilded" with Dutch metal.

THE BASICS: HOW TO GLAZE

FIVE OF THE FAUX FINISHES featured involve a glazing technique. Read the following information carefully *before* you start any of the decorative techniques.

Use good-quality 2 to 2½ inch china-bristle brushes, such as a Purdy or Hamilton. Invest a few extra dollars in your brush. Nothing makes this work more unbearable than having to stop and pick bristles out of a glazed area, leaving fingerprints behind. With proper cleaning, a good brush will last you a lifetime. Rinse the brush with mineral spirits as soon as you have finished, squeeze the thinner out with a rag — being sure to dispose of the rags properly so they don't spontaneously combust — and then wash the brush thoroughly with a mild soap and warm water, until no traces of thinner or glaze color can be seen or smelled.

After the base color has dried thoroughly, tint and mix your glaze color for the desired finish (see below for the formula). This is a two-brush process. Start by dipping the tips of the first brush's bristles into the glaze coat, just far enough to get a little bit of color on the brush. Then brush the glaze onto the embossed wallcovering, working the color into an area no wider than approximately 3 feet. Apply the brush strokes in random directions — not just horizontally or vertically. Once this is done, take the second brush and stipple the glaze-colored area. Stippling is a method of holding the brush straight up and down (perpendicular to the surface) and pouncing the glaze coat. The splaying action of the bristles moves the glaze into the crevices of the pattern and helps distribute evenly the glaze color. Stipple until all brush strokes have been removed, then move to the next adjoining section.

Glazing tips:

- ☛ Only a small amount of glaze color

is necessary for each section.

- ☛ Practice applying the same amount of glaze color to each section.
- ☛ Keep your wet edge ragged, not in a straight line. This will make it easier to hide seams between sections. Often you can use the pattern itself as a guide to a random edge.
- ☛ Work quickly. You'll need to finish and move onto the next section before the glaze sets up (begins to dry) in order to get a consistent texture.
- ☛ Begin work in a corner or at a break in the pattern.
- ☛ Don't stop work in the middle of an area. Continue until you come to a break in the pattern or a corner.

The formula:

- 5 parts mineral spirits/paint thinner
 - 2 parts boiled linseed oil
 - 3 parts glaze coat (such as McCloskey or Benjamin Moore brands)
 - 1 part Japan drier (see suppliers list)
- Colors-in-oil or artists oil in the appropriate colors

You won't need much — 2 to 3 cups of this mixture would generously glaze the walls of an 8 x 10 room. But at the same time, mix enough so that you

don't run out, because exactly duplicating the color in a second batch is tricky.

Mix the first four ingredients of the formula in a metal, glass, or heavy-duty plastic container. (Do not use a cardboard bucket.) Then add your pigment until the desired color is reached — keep checking on your sample board. Generally, for 2 to 3 cups of glaze, you'll need several tablespoons of your primary color (a medium-size tube is usually sufficient) with smaller quantities of secondary colors added to achieve just the right hue and value. Darker colors require more pigment. If you are trying to achieve a medium-dark to dark shade, be sure to start with a base color that isn't too light; make it at least of medium value. I prefer to use colors-in-oil or artist oils as opposed to universal tints. Be sure to stir frequently because the colors will separate and that could result in color inconsistency. One last tip: Of all the pigments, black is the strongest. So when trying to achieve a brown leather, for example, you might need a couple of tablespoons of burnt umber, maybe a ½ tablespoon of burnt sienna, but probably not more than a ½ *teaspoon* of black. Use it sparingly!



Even simply painted, the appeal of this c.1910 Lincrusta pattern is evident.

The primer, tinted buff, is finished with two coats of Dutch metal and an antiquing glaze.

ence, though, is to go a step further and soften the shiny effect with an antiquing glaze. To apply a glaze over the Dutch metal, first seal the metallic surface with a water-based gloss varnish and allow it to dry thoroughly. (I like to apply two coats so that I'm certain the entire surface has been sealed.) Then glaze and stipple the area with a raw umber/black glaze color. Allow it 24 hours to dry, then apply a protective varnish. Remember that for large, unbroken expanses such as ceilings, it's a good idea to call in a professional. At the very least, have a helper apply the glaze while you stipple and highlight. This way the glazed areas can be worked quickly to prevent seam lines.

ADVANCED TECHNIQUES

Simulated Antique Plaster Begin with a white base coat. Mix a glaze color tinted with a very small amount of raw umber and/or black. Brush on the glaze color and stipple as described in the glazing box on p. 63. To further suggest aged plaster, wrap a rag around your finger and gently wipe the glaze off all or some of the raised parts of the pattern. This accentuates the darker color gathered in the recesses of the pattern. Allow 24 hours for the glaze color to dry and then brush on a protective coat of varnish. Rubbed- or brushed-on Dutch metal gold accents add an even greater richness.

Simulated Unadorned Leather Begin by choosing a base coat that is the lightest shade in the leather you are trying to imitate. For example, to achieve a deep, rich, red Cordovan leather, select a base coat somewhere in the range of a Chinese red to a deep terra-cotta color; for brown-toned leathers, a medium yellow-orange or a warm buff are ideal. After the base coat is thoroughly dry, mix up a glaze color. For most leathers, this glaze color will have a blend of burnt umber, a bit of black, and burnt sienna, but experiment for the shade you want. Brush the glaze color in and stipple.

Red faux-leather dado

After stippling, take a cotton rag (approximately 12" x 12"), crumple it in your hand, and pat the glazed surface. The rag randomly lifts off the glaze, letting the background color peek through. The harder you pat the surface with the rag, the more glaze you will lift up and the more background color you will expose. Do experiment on your sample board until you've found the result you like. Allow 24 hours drying time, and then apply a protective varnish. Your result is a textural pattern that highlights the wallcovering's embossing.

Some more tips on ragging:

- Be sure to have several rags cut before beginning your glazing project. Use the same type of rag for the entire project because different materials pick up the glaze differently, resulting in a different texture.
- Rags made of 100% cotton sheeting work well, but also experiment on your sample board with the effects of novel ragging materials, like unprinted newspaper or plastic food wrap!
- Be sure to frequently rotate and recrumple the rag in your hand so that a clean piece of cloth is picking up the glaze each time you pat.
- Pat with the rag until it no longer picks up glaze consistently. Then switch to another clean rag.




Simulated Gilded Leather Metallic accents can be applied to glazed and varnished wallcoverings. First, create a leather look as described above; after the varnish has completely dried, take a clean rag and dip it into a Dutch metal powder suspended in brilliantine wax (see right). Rub a small amount of the "metal" onto the area you wish to highlight. Let your finger act as a "burnisher."

Dutch metals are available in a wide variety of colors such as copper, silver, and several shades of gold. If you want to get even more exuberant and create complex metallic effects, Dutch metal powder also come in a diverse palette of other metallic colors, including blue, red, purple, and green. These vivid colors can be mixed into a bronzing liquid or wax medium.

Simulated Adorned and Gilded Leather For a really luxurious gilded leather look, apply two coats of Dutch metal paint right after priming. (I like Chromotone pale gold, but you can experiment with the effect of copper or silver as well.) Seal with a water-based gloss varnish, being sure to get the varnish in all the nooks and crannies, and allow to dry.

Stunning effects can be achieved if a rich glaze color is ragged, and then wiped from highlights, allowing base coats of Dutch metal to show through.



Then mix a glaze in your choice of color. For red leather, use a mixture of burnt sienna, burnt umber, and a little black. Create an extremely effective green leather by mixing an umber green, such as thalo or earth green, with burnt umber and perhaps a little black. Brush on the glaze color, brush-stipple, and rag. Then wrap a clean rag around your finger and wipe the glaze color off of the prominent areas you wish to highlight, leaving the gold showing through. Again, the sooner and harder you wipe with the rag, the more glaze you will remove and the more gold will show through. Try to be consistent when working on a large area. Allow 24 hours to dry, then varnish. 

Suppliers List

Lincrusta-Walton and Anaglypta

For a free brochure and further information about Crown's embossed wallcoverings, contact any of the following distributors: Bentley Brothers, Louisville, KY; (800) 824-4777. The Crown Corp., Denver, CO; (800) 422-2099. Classic Ceilings, Fullerton, CA; (800) 992-8700. Steptoe & Wife, Toronto, Ontario; (800) 461-0060 or (416) 530-4200. Cody Wallcoverings Ltd., Hamilton, Ontario; (800) 668-9420 or (416) 527-9163.

Dutch Metal Paints and Powders

Janovic/Plaza, 30-35 Thomson Ave., Dept. OHJ, Long Island City, NY 11101; (800) 772-4381. Bay City Paints, 2279 Market St., Dept. OHJ, San Francisco, CA 94114; (415) 431-4914. These are two excellent specialty paint stores that can supply you with Dutch metal powder, paint, and wax — as well as glaze coat, brushes, colors-in-oil, and Japan drier. They are both willing to send mail-order/UPS.

Crescent Bronze is the manufacturer of "Chromatone," an excellent Dutch metal paint in a variety of metallic colors. They also produce Dutch metal powders in a large array of colors. Ask for their products at your local supplier, or call the manufacturer for the name of a distributor: Crescent Bronze Powder Co., 3400 N. Avondale St., Dept. OHJ, Chicago, IL 60618; (800) 445-6810.

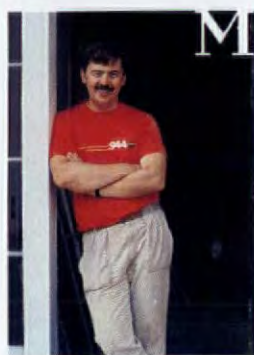
Brushes

For good quality brushes, let your fingers do the walking. Call paint stores in your area to ask "do you specialize in dealing with the trade?" "do you carry thick, high-quality brushes like Hamilton or Purdy?" No luck? For distributors, call Purdy Corporation, P.O. Box 83097, Dept. OHJ, Portland, OR 97283; (800) 547-0780.

The House That Didn't Belong

SOLVING AN OLD-HOUSE LIVING MYSTERY

BY STEVEN JOHNSON



Owner Steven Johnson.

MY WIFE, ANNE MARIE, AND I enjoy walking the back streets and forgotten alleyways of coastal towns in Rhode Island. As we walk, we take turns spinning tales about the history that was made on these byways. Part of our game is connecting stories to actual architectural details. The details can be anything — building materials, the paint ghost of a long-since removed hinge (from a stable, perhaps, or a blacksmith

shop), or the name of a street. Although pure conjecture, it is surprising how close our tales come to actual events.

During one of our sojourns in Bristol, Rhode Island, we walked up a narrow, one-way road, named John Street, that led away from the waterfront. As we wandered up John Street, an imaginative tale of drunken sailors arguing in the alley and merchants bartering over dry goods began to unwind. Suddenly, we both stopped dead in our tracks. Right in the middle of this tiny, tightly packed street of modest houses rose a four-storey Greek Revival mansion. It was complete with Corinthian columns *in antis* — that is, columns standing between *antae* (pilasters that end the projecting walls of a building). The “Big House on John Street” was a complete shock. We had come across many out-of-place, but explainable, examples of infill housing. Nothing had prepared us for this.

Searching For Clues

THE BIG HOUSE ON JOHN STREET HAD ALL THE MARKINGS OF an early Russell Warren design. Noted for his sense of scale, Russell Warren was a self-educated Rhode Island architect, who built a number of Bristol mansions in the classical style. In keeping with that tradition, the Big House on John Street was a well-proportioned Greek Revival-style building with an entablature doorway. Yet, despite its impressive details and symmetry of design, the house had

many glaring deviations that definitely did not show Warren’s classical touch. First, the typical Greek Revival gabled pediment had been replaced with a gambrel roof that sat heavily on the delicate facade. Instead of a wide, formal staircase, a narrow set of stairs aimlessly ascended to the entrance. Also, the building was set on a high, plain brick foundation that lifted the structure precariously above street level and out of scale with the neighborhood. Last, there was no practical reason for putting a high-style mansion on an tiny, unknown alley. We looked at each other and agreed that this house did not belong here.

We stepped back from the building trying to amend our story to explain this strange anomaly. Since Bristol was famous for moving houses all over town, we decided that the house must have been relocated. We also realized that the

The street was so small that the best view of the neighborhood was from the middle of the road.





(above) The clues were there: Notice how the utilitarian staircase clashes with the formality of the columned porch. (inset) A twin structure shows how the Big House looked before the alterations.

street was too narrow for moving a building of any size. In order to get this venerable "big guy" to its current location, the entire street would have had to been moved.

On a return visit to Bristol, we decided to ask some of the locals about the house. Such a big move should have been part of the town's folklore — or so we thought. We quizzed the mailman, the neighbor watering her lawn, and even the regulars at the barbershop. Aside from the expected "It's always been there," no one had an answer. With no plausible explanation forthcoming, we left our unfinished story in the back of our minds and went home to Warren, Rhode Island, but we never stopped wondering.

As fate would have it, five years later, our paths crossed again. I was looking for a historic building to restore, and

the Big House on John Street had just come on the market. After we bought the building, we started to collect information on its mysterious past in earnest. At our open-house events, many people stopped by to volunteer first-hand stories about previous owners. This sprinkling of hometown gossip suggested that the house had been moved and altered, but we still didn't have any hard facts.

More tantalizing clues lay in the construction of the gambrel roof addition. As the restoration progressed to the third floor, we were surprised to find that the structural timbers inside the walls were greatly overbuilt and carefully dressed and fitted. Also, everything was assembled with brass screws instead of nails. These were common building methods and materials for ships, but not for houses.

A Mystery Solved

ARMED WITH THIS INFORMATION, WE BEGAN researching the house at the Bristol Historic Preservation Society. A booklet called *Russell Warren in Bristol* yielded our first solid fact. On the back page, a map indicating all of the Warren-designed houses in Bristol included 15 John Street. The Society's curator also informed us that at the turn of the century the house had been moved to John Street by noted boat builder J.B. Herreshoff so that a hotel could be built. Then on a walking tour of Bristol, we met Elizabeth Warren, a descendant of Russell Warren. Her detailed knowledge of the town provided us with more answers. The Big House was indeed built by Russell Warren for a prominent lawyer, but it was originally located around the corner on Hope Street. After Herreshoff purchased the building, he moved it diagonally

across two lots, cleverly avoiding the narrow streets. As the house was moved to John Street, it was kept at the same level and a new foundation was built up to meet it. No wonder the house towered almost a full storey above its neighbors. The last piece of the mystery was solved at the Herreshoff Museum. Apparently, 1900 was a slow year in the boat building industry. When the house was moved, Herreshoff took advantage of the lull and put his crew to work building a third floor with a gambrel roof. This explained the unusual construction methods we found.

Finally, all the clues had come together. On July 1, 1991, we placed a plaque on the porch describing the house's history — a story with more threads than we could have spun.



RESTORATION PRODUCTS

Summer Jobs

by Lynn Elliott

For most old-house restorers, the warm months to come mean it's time to start those outdoor projects — like painting clapboards, repairing damaged siding, and replacing the roof. Before you drag out the extension ladder, take a look at a few new products.

Systematic Shingling

TAKE SOME OF THE LABOR OUT OF installing shingle siding or roofing by using Cedar Valley's panelized shingle system. The system uses 8' long panels of hand-cut, red cedar shingles that can be custom-ordered with one to six courses. The one-course versions can bend around an 8' radius or can be back-kerfed to turn

even tighter arcs, and are offered in 4", 5", and 7" exposures to match the multi-course panels. The shingles come in 12 decorator shapes: round, fishscale, hexagon, octagon, half-cove, full-cove, arrow, diagonal, sawtooth, and square. The panels are faced-nailed

This breakfast nook called for a 5' radius wall, so the panels were back-kerfed on site every 2".

up with Maze nails or with stainless-steel staples applied from a pneumatic tool. Depending upon the shingle style and number of rows, a panel can range in from \$17 to \$135. For information, contact Cedar Valley Shingle Systems, 943 San Felipe Road, Dept. OHJ, Hollister, CA 95023; (800) 521-9523.

Remarkable Roofing

ASPHALT SHINGLES THAT IMITATE natural materials — particularly wood — are the latest trend in the roofing industry. An interesting variation on this theme is CertainTeed Corporation's Carriage House Shingle, an asphalt shingle made to appear like slate. When applied, the chamfered-cut Carriage House Shingle creates a scallop-edged appearance and produces an average of four, full layers of shingle protection. It's a fiber glass-based shingle that carries a U.L. Class A fire resistance rating. In addition, it offers excellent resistance to nail-pull and wind uplift. The Carriage House Shingle comes in a variety of colors, including Sherwood Forest, Georgian Brick, Heirloom Silver, Victorian Blue, Stately Black, Brownstone, and Stonegate Gray. CertainTeed Corp., Carriage House Shingle, P.O.

Box 860, Dept. OHJ, Valley Forge, PA 19482; (215) 341-7000.

Historic Hues

SHOW YOUR TRUE colors with Sherwin-Williams' Preservation Palette! Using information from the Roycroft Associates and their own archives, the historic paint colors in the Preservation Palette are organized into architectural categories: Classical/Colonial Revival, Early Victorian, Late Victorian, Craftsman, and



The Carriage House Shingle has super deep 8" tabs, versus the standard 6" tabs.

Postwar Romanticism. From Queen Anne Lilac and Bunglehouse Blue to Pink Flamingo and Holiday Turquoise, a glance at the interior paint color card is an education in American color fash-

ions. The exterior paint colors cover the spectrum from the ubiquitous Colonial Yellow to the earth tones of the Arts & Crafts period. Even the warm pastels of the '40s and '50s for your soon-to-be-his-

toric split-level ranch are included. The exterior colors are available in oil-based and latex paints; the interior colors come in two types of latex paint. Ask to see the Preservation Palette at any Sherwin-Williams store.



Create a shirtwaist effect on your Foursquare with the Preservation Palette.

Push Button Light Switches

DIMMER & SINGLE & 3-WAY



SOLID BRASS
COVERS

* DECORATIVE

* PLAIN

* CHROME

* BROWN

* IVORY

* OAK

For Catalog Send \$1.50 to:

Classic Accents
P.O. Box 1181 • Dept. OH
Southgate, MI 48195
(313) 282-5525

Decorative Metal Ceilings

Original turn-of-the-century patterns

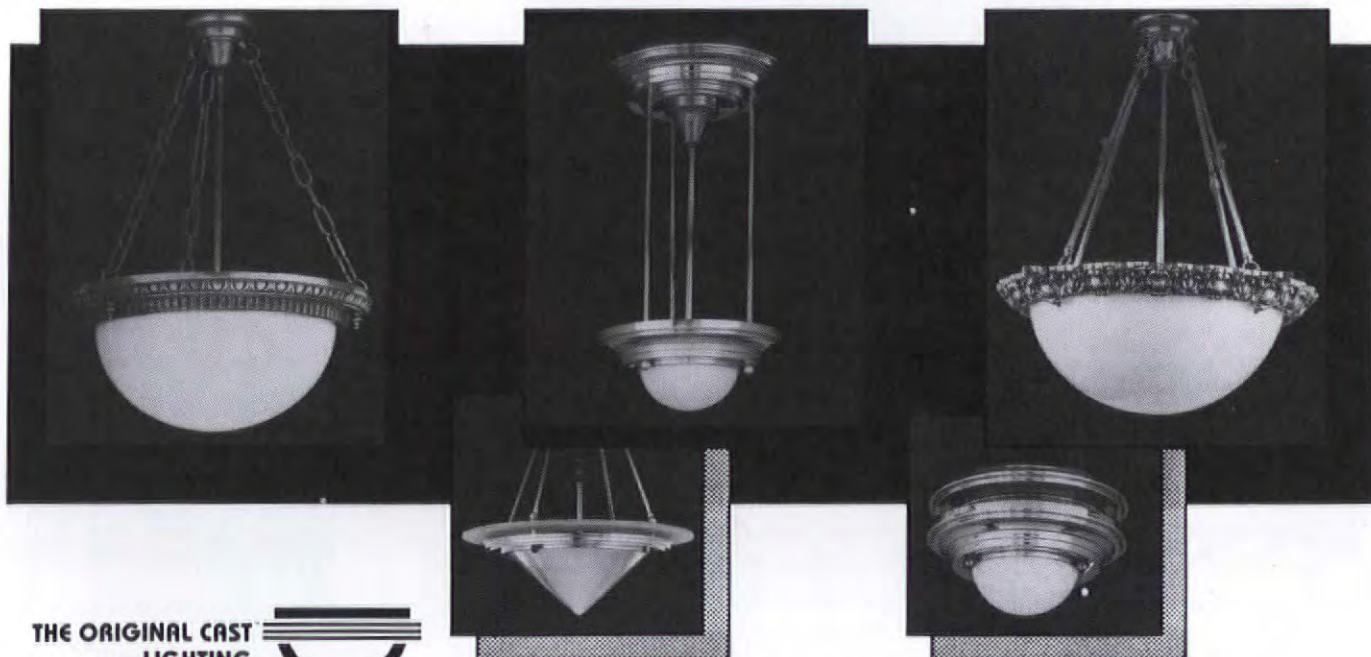
Using eighty year old dies, the W. F. Norman Corporation is once again producing metal plates for the design of ceilings and wall coverings. Their growing popularity stems not only from nostalgia but from their beauty, permanence, fireproofing and economy.

The fullness of the Hi-Art™ line — including center plates, corner plates, border plates, cornice and filler plates — permits classic designs to be produced that are architecturally proportioned for an exact fit.

Write for reproduction copy of 72 page illustrated catalog. Price \$3.

W.F. Norman Corporation
P.O. Box 323 • Nevada, Missouri 64772 • 1-800-641-4038
Fax: 417-667-2708

THE SEARCH IS OVER



THE ORIGINAL CAST
LIGHTING



FUNCTION FOLLOWS FORM

A Division of Art Directions Inc. 6120 Delmar Blvd. St. Louis MO 63112 314-863-1895 fax 314-863-3278

RESTORATION PRODUCTS

The Clean-up Crew



Let It Shine!

WITH A LITTLE YANKEE KNOW-HOW and a lot of elbow-grease, antique lighting restorer Brian Block developed the Cape Cod Polishing Cloths that contain a potent polishing formula. The cloths will easily clean all types of metal: brass, bronze, silver, gold, copper, nickel, chrome, aluminum, pewter, and stainless



Tackle tarnished metal with the Cape Cod Polishing Cloths. Each tin contains 12 individually wrapped cloths.

steel. The formula is designed to leave an invisible coating of anti-tarnish protection, which provides a long-lasting shine — a quality anyone with a house full of brass door-knobs and backplates will appreciate. One polish-impregnated cloth contains enough formula to clean silver flatware for eight or a brass chandelier. A tin, which includes 12 cloths and a pair of nitrile gloves to keep your hands clean, costs \$11.95 ppd. For information, contact Cape Cod Polishing Cloths, Box 2039, Dept. OHJ, Dennis, MA 02638; (508) 385-5099.

Oops!

DRIPPED SOME LATEX PAINT on your oak mouldings? Don't worry. Oops! from DIY Products will quickly remove stubborn, dried latex paint. Aside from water-based paints, the aptly named Oops! has been formulated to clean

off tar, lipstick, shoe polish, pen ink, magic marker, oil, grease, and crayons from furniture, hardwood floors, cabinets, carpet, and formica. Oops! is available in pints, quarts, and gallons — depending on how accident-prone you are. DIY Products Division of Rhodes American, 2825 W. 31st St., Dept. OHJ, Chicago, IL 60623; (800) 621-8934.



Oops! penetrates and removes dried latex without harming finishes.

Spirited Soap

DUST AND DIRT take their toll on historic finishes and painted decorative plaster. If you're

uneasy about using harsh cleaners on delicate finishes, you be glad to know about the Original Finish Restoration Soap. Developed specifically for historic finishes, this versatile soap can be diluted in water or mineral spirits. Originally made for use on a painted-and-gilded ceiling, the Restoration Soap can also be used on wood veneers, parquet floors, painted finishes, and furniture without fear of damaging the existing finish. One pint makes 24 gallons. The soap costs \$21 ppd. For information, contact Intarsia Arts, 17 4th Ave., Dept. OHJ, Nyack, NY 10960; (800) 234-5795.

Secret Formula Found

AN ORIGINAL SHELLAC FINISH IS HIGHLY valued among antique furniture collectors. The original finish on "mission oak" pieces, such as those produced in the Roycroft Shops, can be revived and protected with the Roycroft Furniture Polish. The secret Roycroft formula, found after 50 years attached to a 1940 letter by Elbert Hubbard II, is based on natural beeswax — a favorite coating of many Arts & Crafts furniture makers including Gustav Stickley. Appropriate to use on turn-of-the-century finishes, this wax polish will restore and preserve dried wood and antique finishes. A 16-ounce can costs \$8.95 ppd. For information, write Knock on Wood, P.O. Box 8773, Dept. OHJ, Asheville, NC 28814.



The Original Restoration Soap is made from natural amin soaps and wetting agents.



IN A RECENT POLL 100% OF THOSE BIRDS INTERVIEWED FOUND OUR PRODUCT TOTALLY REPELLING



for the whole story, contact us.

Nixalite stainless steel needle strips — Effective, humane bird control. For

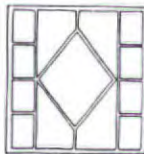


NIXALITE OF AMERICA
1025 16th AVENUE
P.O. BOX 727 • DEPT. OHJ
EAST MOLINE, IL 61244
800-624-1189 • FAX 309-755-0077

SPECIALISTS IN BIRD CONTROL

REPLACE ROTTED SASH

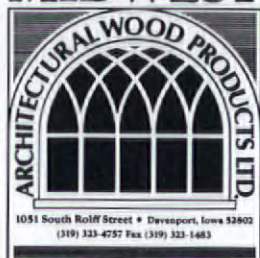
Any style, any size.
Wood storms and
screens, too. Costs
less than you think.
Fast turnaround. Insulated glass
available. Send \$2 for literature.



Midwest
Wood Products

is now

MIDWEST



1051 South Rolff Street • Davenport, Iowa 52802
(319) 323-4757 Fax (319) 323-1483

1051 S. Rolff St.
Davenport, IA 52802
319/323-4757
FAX 319/323-1483

Architectural Sheet Metal Ornaments

Now available from the W.F. Norman Corporation, makers of Hi-Art® Steel Ceilings - a complete, 94-year-old line of architectural sheet metal ornamentation including:

• moldings	• balusters	• finials	• marquee	• crestings	• lion heads
• brackets	• urns	• scrolls	• enrichments	• garlands	• conductor heads
• corbels	• capitals	• leaves	• glass pendant frames	• panel ornaments	• and fittings
• rosettes	• festoons	• friezes			

Over 1300 catalog items available in zinc or copper. Custom reproduction inquiries invited.
W.F. Norman also produces building cornices, lintels, capitals, window hoods, finials and weathervanes.

W.F. NORMAN CORP.
Complete catalog \$2.50 • P.O. Box 323, Nevada, MO 64772 • 800-641-4038 • fax 417-667-2708

Largest Selection of Antique American Oak and Victorian Furniture in New England

Current inventory
on video tape \$25.
413-527-1022

SOUTHAMPTON
ANTIQUES
MEG AND BRUCE CUMMINGS

Rt. 10, Southampton, MA 01073
Thu., Fri., Sat. 10-5; Sun. 12-5 Closed August
Directions: Exit 3 off Mass Pike (I-90),
7 miles north on Rt. 10.

WOOD REPAIR



Durham's Rock Hard Water Putty can handle many kinds of repair needs. It can be sawed, chiseled, polished, colored, and molded. It sticks and stays put, will not shrink. It fills cracks, crevices, joints, knots, and nail holes.

It permanently adheres in wood, plaster, and tile. Ideal for use by woodworkers, painters, electricians, and carpenters. Available through hardware, lumber and building material dealers, and paint distributors from coast to coast.

DONALD DURHAM CO.
Box 804-HJ • Des Moines, Iowa 50304

We print our catalog for the AMISH



Victorian-style wood, gas or electric cookstoves


The world's largest Amish community (it's here in Ohio, not PA) relies on our 2,000 item catalog. Traditional Heartland cookstoves are a favorite: Old World craftsmanship, breathtaking nickel trim & functional roast-size ovens. Choose wood-fired (money-saving airtight design) or elegant electric or gas versions. Grain mills, oil lamps, cast cookware, crockery & 100's of items you had no idea were still available! It's guaranteed different from any other catalog you ever saw!

LEHMAN'S

Rush me your Amish country catalog. I am enclosing \$2.
Mail to: Lehman's Box 41, Dept. 1-JOG, Kidron, OH 44636

Name _____
Address _____
Zip _____

Imagine visiting 1,500 restoration stores — without leaving home!



USED TO BE, OLD-HOUSE FOLKS HAD to waste an awful lot of valuable time tracking down the right trowel or terra-cotta tile — time that could be better spent actually plastering or repairing the leaky roof! But the days of fruitless phone calls and wild goose chases are over: The Old-House Journal Catalog gives you access to over 1,500 companies who offer the very best products and services in the restoration field. The 1993 edition has been carefully updated with over 10,000 items you can still buy:

Victorian Fretwork • Push-Button Light Switches • Craftsman Rugs & Curtains
Wood Storm Windows • Fireplace Tiles • Spoke-Handled Faucets
Plaster Ceiling Medallions • 19th Century Millwork • Marble Mantels
High-Tank Toilets • Cast & Wrought Ironwork • Hand-Hammered Weathervanes.

UNUSUAL SERVICES, TOO: Where else could you find companies who will custom duplicate your millwork and hardware, paint your house in historic colors, repair your stained glass, reline your chimney, and re-create a period garden? Just buy our Catalog! It's 270 pages of guidance that you won't find anywhere else.

TO ORDER, fill out the envelope order form and mail with your check for \$19.95 postpaid (only \$15.95 for subscribers). Or call (508) 281-8803 and use your Visa or MasterCard.



THE LEADER IN CUSTOM ARCHITECTURAL ORNAMENTATION

Cornices • Ceiling Medallions
Niche Caps • Capitals
Brackets • Sculpture
Plaques • Domes
Cartouches • Tudor Ceilings
Adam Ceilings • Coffers
Plus custom design,
consultation and fabrication.



FELBER
ORNAMENTAL
PLASTERING CORP.

P.O. Box 509, 110 Ardmore Avenue,
Ardmore, PA 19003-0509
215-642-4710, 1-800-392-6896, FAX: 215-642-4863

BACK BY POPULAR DEMAND!

*Classic Pedestal Sinks ~ \$225**



While supplies last,
these fine quality
vitreous china
pedestal sinks
represent an
outstanding value
for restoration or
new construction projects.

Mention this ad and save 25%
off coordinating faucets, fittings,
and bath accessories, when
purchased along with this sink.

Please refer to offer OHJ-593
when placing your order.

HARDWARE+Plus, Inc.
1-800-522-7336

We accept Mastercard, Visa, & Discover.

*Model PDS-400A.
Some pieces may have
minor blemishes. Prices
do not include shipping
and handling charges.

Save Time

• Save Money

• Save Historic Fabric

ConServ

Repair Decayed Wood

Epoxy

Used in hundreds of historic sites and structures in U.S. and Canada
by professionals, contractors and home owners

Free Product Information

Conservation Services

8 Lakeside Trail, Kinnelon, NJ 07405 Phone (201) 838-6412 Fax (201) 492-5667

window sills / sash
columns / posts
porches / steps
flooring
doors
railings
balustrades
siding / trim
cornices / eaves
rafters / vigas
beams / joists
plates / sills / studs
timber frame / logs



CHADSWORTH™
The Column Source™

CHADSWORTH is "the" source
for all your needs...from
replacement components to
full columns. Largest selection
of columns. Offering a variety
of material: wood, fiberglass,
E.P.S., stone. For beauty that
lasts, and makes a statement
that says "classic luxury".
We provide consultation,
custom designs, wide choice
of styles, full range of sizes
and job site delivery.

Catalog \$3.00

Catalog: 800-394-5177
Inquiries: 404-876-5410

Chadsworth Incorporated
P.O. Box 53268, Dept. 3
Atlanta, Georgia 30355



THE STEWART IRON WORKS COMPANY
Ornamental Iron Fences & Gates for over 100 Years

- Solid Iron Construction • 15 Standard Historic Styles
- Custom Designs and Period Reproduction Available

Send \$3.00 for New Catalogue & Price List
P. O. Box 2612 (O. H. J.) • Covington, KY 41012-2612
(606) 431-1985

RESTORER'S NOTEBOOK

Sky Hook

AFTER A FRUSTRATING TIME installing a ceiling light fixture, I came to the conclusion that you need three hands - one to hold the fixture and two to make the necessary connections. I finally solved the problem by fashioning a hook from stiff coat-hanger wire. I straightened it out and bent a hook at each end. By placing the small hook into one of the mounting holes in the light fixture cover, then hooking the other larger

This transformed coat hanger holds a ceiling fixture in place for wiring.

—JOSEPH CIMAROST
Detroit, Michigan

Night Light

FOR INTERIOR PAINTING AT NIGHT, I used to rely on a collection of old table lamps and clamp lights. I'd put down my sandpaper or brush, certain I'd done a thorough job, only to see a glaring holiday (missed spot) the next day. Then I thought of adapting an outdoor floodlight to use indoors. I rigged one up and the difference was incredible. Since then, I've found it's cost-effective to buy a ready-made 500-watt Halogen light, complete with handle and stand. These are available at discount hardware stores for under \$50 (Regent Lighting Corporation is one manufacturer). The floodlight does an excellent job of highlighting details, and now I use it for added light even in the daytime.

—EMILY BEARSE
Atlanta, Georgia

Pogo Stick-Up

WHEN MY HUSBAND AND I WERE installing tin ceilings in our 1917 "Denver Square" home last fall, I became ill and could not help him finish the project. Necessity became the mother of invention, and he adapted the children's old pogo stick to finish the ceiling by himself. He lashed a wooden T-brace to the pogo stick with duct tape. The spring kept the brace tight from floor to ceiling, and made it easy to set up and move around. We'll be using it again as we tackle the upstairs hall ceiling.

—ANNE MCELROY
Littleton, Colorado



A pogo stick T-brace is easy to assemble, adjust, and move around a room.

Skinny Paper-Smoother

WHILE WALLPAPERING MY BATHROOM, I solved a tricky problem: How to get to the wall space behind the toilet and the cast-iron radiator without paying a plumber to remove them. These areas are especially prone to peeling, and neither my hands nor my usual tools would reach. I've had great success painting that kind of tight spot with

a tool called a "mini-koter." It's a frame with a 2'-long handle that holds a specially designed sausage-size roller nap. To adapt it for paperhanging, tape a clean rag around the end of the bare frame, and wrap it tightly to make a snug, soft smoother. Hang sheets of paper using a regular smoother until you get to the top of the radiator. Then use the new tool to apply and smooth the bottom section all in one motion. The result: No bubbles and great seams.

—MAGGIE LINDSTROM
Rochester, New York

New Tip for Old Stop

ANTIQUE DOORSTOPS OF turned wood can easily be renewed. Usually the original rubber tip has long since dried up and broken off - allowing the door to bang. Buy rubber toilet seat bumpers, the kind with the rubber molded onto a steel brad. Drive them into the doorstops. They'll work as good as when they were new.

—KEVIN CULLEN
Danville, Illinois

A long-handled paintroller with a cloth on the end can be used to smooth wallpaper in tight spots.

TIPS TO SHARE? Do you have any hints or shortcuts that might help other old-house owners? We'll pay \$25 for any how-to items used in this "Restorer's Notebook" column. Write to Notebook Editor, The Old-House Journal, 2 Main Street, Gloucester, MA 01930.

CUSTOM WOOD TURNINGS

- Balusters for staircases, decks, porches and fences



- Newel posts
- Porch posts to 12'
- Column bases
- Fluting
- Spiral rope twist
- Finials
- Furniture parts
 - Bed posts
 - Lamps
 - Spoon foot legs

No minimum order

Shipment coordination

Reasonable Cross Country Rates

For a free estimate call:

203-767-3236

Catalog \$2.50

156 Main Street
P.O. Box 338
Ivoryton, CT 06442
Fax: 203-767-3238

FREE NEW 1993 CATALOG

Style~Mark[®]
Formed
Millwork[™]
ARCHITECTURAL
ACCENTS[®]

- Over 900 items
- Won't Decay or Warp
- Low Maintenance

Arches • Brackets • Trim
Louvers • Window Heads
Mouldings • Entryways
Millwork & More



Style~Mark[®]
INC.

960 W. Barre Rd., Archbold, Ohio 43502 • 800-446-3040

Shades of
'76



Make History Happen in Your Home
with Shades of '76 Alkyd Enamel
for Distinctive Interiors and Exteriors

Finnaren & Haley Paints — 215-825-1900/1-800-843-9800
901 Washington St., Conshohocken, PA 19428

Smith • Cornell impressions



We specialize in:

- Sand cast plaques in Bronze & Aluminum
- GraphicsPlus-Smooth Surface Plaques and Markers
- Combination of cast with a GraphicsPlus insert
- OldStandard National Register Plaques

Call or write for a:

- FREE brochure
- FREE quote

S.C

1545 Holland Rd. • Suite O
Maumee, Ohio 43537
419-891-4335 • 800-325-0248

Country
Curtains[®]

FREE CATALOG

Choose from over 100 styles of
curtains and window treatments
in warm colors,
cheerful prints
and a wide
selection of
fabrics and
patterns
... many
designs
available
only from
Country
Curtains.



CALL TOLL FREE:
1-800-876-6123

24 hours a day, 7 days a week.

☐ PLEASE SEND FREE CATALOG

NAME _____

ADDRESS _____

CITY _____

STATE _____ ZIP _____

Country Curtains.

At The Red Lion Inn
Dept. 2863, Stockbridge, MA 01262

Historic House Plans



M

ail-order plans have a long history in shaping the residential architecture of the country. Of the thousands of house plans available today, few exhibit good design and a grasp of historical proportion and detail. So, in response to requests from OHJ readers, the editors have "done the homework": We've hand-picked plans. In each issue, we offer the most attractive, authentic, and buildable of the historical designs, from all periods of American architectural history. Let us know what plans you're looking for.

You can order actual blueprints for all the houses featured. Plans conform to national building-code standards — however, modifications are usually necessary for your site and local requirements, so you'll probably need the assistance of a professional designer (your builder may qualify) or an architect.

For the houses shown in this issue, blueprints include:

- Foundation plan for basement or crawl space. (Crawl space plans can easily be adapted for full basements by your builder.)
- Detailed floor plans showing all dimensions for framing, plus detailed layout and location of electrical and plumbing components.
- Interior elevations are included in some plans, showing interior views of kitchen, bath, fireplace, built-ins, and cabinet designs.
- Window and door schedule.

- Building cross sections: cornice, fireplace, and cabinet sections when needed to help your builder understand major interior details.

- Framing diagrams that show layouts of framing pieces and their locations for roof, first and second floors.

- Energy-saving specs, including vapor barriers, insulated sheathing, caulking and foam-sealant areas, batt insulation, and attic exhaust ventilators.

Why order multiple sets? If you're serious about

building, you'll need a set each for the general contractor, mortgage lender, electrician, plumber, heating/ventilating contractor, building permit department, other township use or interior designer, and one for yourself. Ordering the 8-set plan saves money and additional shipping charges.

Other notes: (1) Plans are copyrighted, and they are printed for you when you order. Therefore, they are not refundable. If you order additional sets of the same plan within 30 days of your

original order, you can purchase them for \$15 each. (2) Mirror-reverse plans are useful when the house would fit the site better "flopped." For this you need one set of mirror-reverse plans for the contractor; but because the reverse plans have backwards lettering and dimensions, all other sets should be ordered right-reading. (3) Heating and air-conditioning layouts are not included. You need a local mechanical contractor to size and locate the proper unit for your specific conditions of climate and site.

OHJ HOUSE PLAN SERVICE 2 Main Street, Gloucester, MA 01930

Please send the following:

PLAN NAME _____ PLAN # _____

#1 ☐ ONE COMPLETE SET OF WORKING DRAWINGS\$ _____

#2 ☐ FIVE-SET PACKAGE.....\$ _____

#3 ☐ EIGHT-SET PACKAGE\$ _____

#4 ☐ _ADDITIONAL SETS OVER 8 OF WORKING DRAWINGS @ \$15EA\$ _____

#5 ☐ PLEASE INCLUDE 1 ADDITIONAL SET OF MIRROR REVERSE @ \$25.....\$ _____

ADD POSTAGE & HANDLING.....\$ 7.50

TOTAL.....\$ _____

SEND TO _____ ☐ CHECK ENCLOSED CHARGE TO: ☐ VISA ☐ MC

ADDRESS _____ CARD # _____ EXP. DATE _____

CITY _____ SIGNATURE OF CARDHOLDER _____

STATE _____ ZIP _____ DAYTIME PHONE # _____

Please allow 3 weeks for delivery.

PRICES GOOD THROUGH MAY 1994

PE33S

CUSTOM DOORS

Which Offer Unlimited Possibilities



Let us work with you to create a personal, distinct entrance.

We build insulated doors of native woods with the highest standards of craftsmanship for beauty and durability.

Color brochure \$2

LAMSON-TAYLOR CUSTOM DOORS
5 TUCKER ROAD
SOUTH ACWORTH, NH 03607
603-835-2992

Everything Victorian



- Fretwork gingerbread and lots more for interior and exterior use; most complete line available.
- Save with factory-to-you pricing.

Send \$4.50 for full color, 52-page product and design idea catalog.

Cumberland Woodcraft Co. INC.

P.O. Drawer 609,
Carlisle, PA 17013
717/243-0063
Dept. 203

PAINT REMOVAL and SANDING TOOLS



- ECOLOGICALLY SAFE
- RESTORES OLD SHINGLES AND CLAPBOARDS TO LIKE-NEW CONDITION

PAINT SHAVER

STRIPS 1 SQ. FT. in 15 SEC.

HI-TECH IN
YOUR HAND!

S344 SANDER VAC



- DUST-FREE SANDING
- INDOORS and OUTDOORS

AMERICAN INTERNATIONAL TOOL INDUSTRIES, INC.

1116-B Park Avenue • Cranston, Rhode Island 02910

(401) 942-7855 • 1-800-932-5872

ARCHITECTURAL ANTIQUES



Large Inventory
of Victorian
Stained Glass

Marble & Wood
Fireplaces

Urban Bronze
Artifacts

Fine Marble
Garden Urns &
Fountains

Ornamental Iron

**FRITZ V. STERBAK
INVESTMENT ANTIQUES**

123 Market St.
Havre de Grace, MD 21078
410-939-1312

Calcimine Ceiling Blues?



Try Sterling's Olde Yankee Towne
ready-mixed Calci-Coater

- Seals old calcimine surfaces
- Succeeds where most paints fail
- Time tested answer for older buildings
- Topcoat with oil or latex paints
- May be tinted with oil or universal colors

For other old house restoration
jobs, try:

- 5f5 non-flammable paint remover
- Old Time Linseed Oil Putty
- Sterling Elastic Glazing Compound
- Quik & Clear vinyl wood finish

For a restoration products

brochure, write to:

OHJ Catalog
SCL Corporation, Box J
Malden, MA 02148

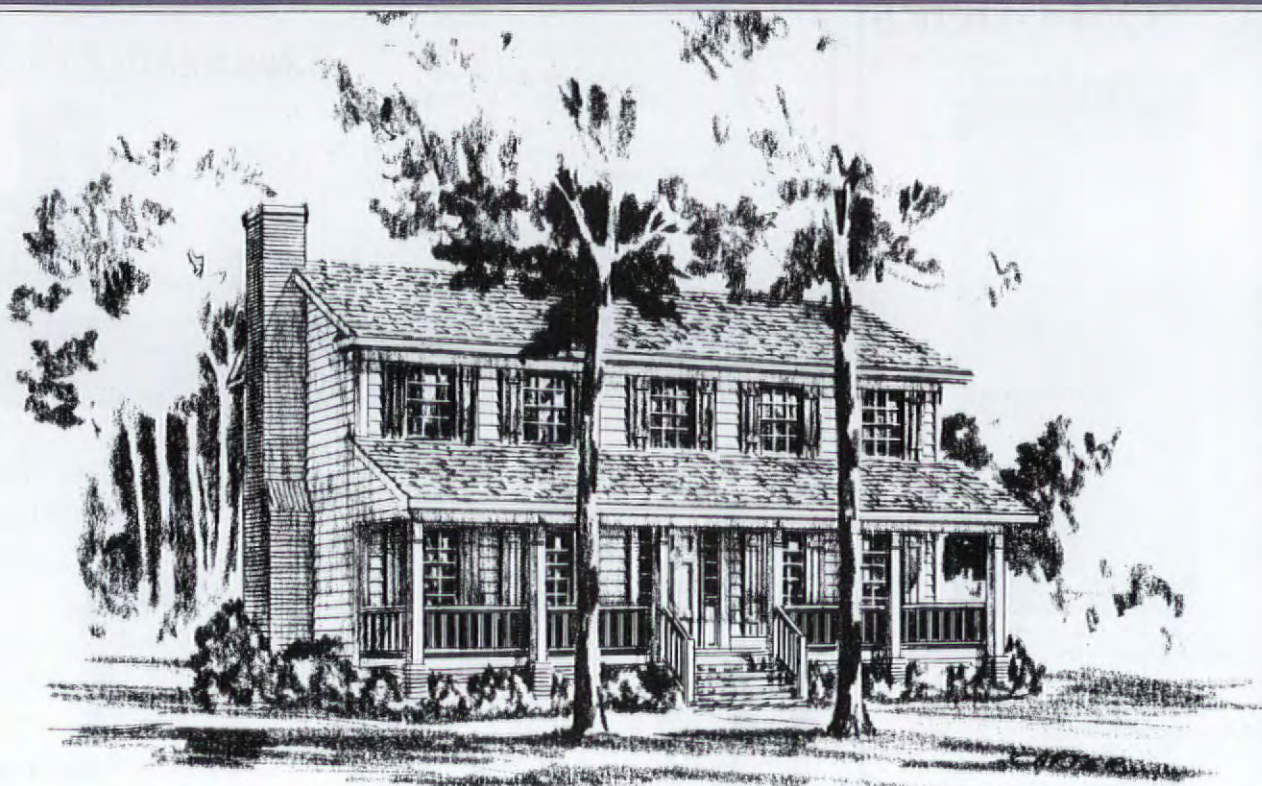
A Collection of Complete Building Plans

COUNTRY DESIGNS



BARNs, SHEDs, GARAGES, STUDIO COTTAGES, GARAGE APARTMENTS, VACATION HOUSES
also other accessory buildings and a folio of period fences.

SEND \$6.00 FOR CATALOG TO: COUNTRY DESIGNS, BOX 774J, ESSEX, CT 06426



I-House Farmhouse

A STAPLE IN AMERICAN ARCHITECTURE, THIS INVITING FARMHOUSE draws on the classic I-house form from the mid-Atlantic region. When entered from the full-width front porch, the foyer opens into the capacious great room with fireplace as well as the dining room. In the rear, the utility room is placed in a handy location next to the kitchen. Upstairs, the three generously sized bedrooms share two full bathrooms and have plenty of closet space.

Plan: WL-04-EA

Costs: \$115; \$185 (set of 5); \$236 (set of 8)

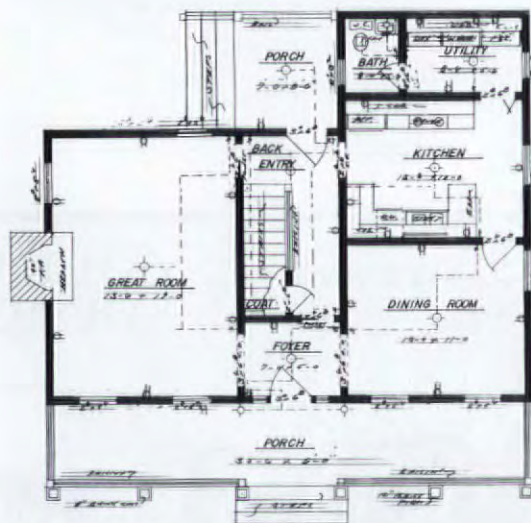
Square Footage: 1,721' (total), 829' (first floor),
892' (second floor)

Ceiling Height: 8' (first floor), 8' (second floor)

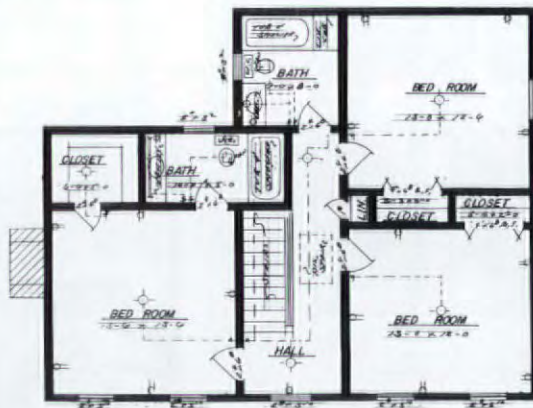
Overall Dimensions:

Width: 35'6"

Depth: 35'6"



first floor



second floor

A new house doesn't have to look new

CONNOR BUILDING COMPANY

DESIGNERS AND BUILDERS OF
ARCHITECTURAL CLASSICS SINCE 1969

Building packages shipped to any destination

Catalog of floorplans with photographs of
completed houses - \$15

Box 87, Webster Rd, Whiting, VT 05778 (802) 897-2321



ANTHONY

WOOD PRODUCTS

**Gable Trim
Fretwork
Brackets
Corbels**

1979

**Porch Posts
Newel Posts
Balusters
Finials**

1993

Box 1081T Hillsboro TX 76645
817/582-7225
Illustrated Catalog Available - \$2.00

OFFICE OF
OLD WORLD HARDWARE CO.

DEALERS IN
FINE
BUILDERS HOUSE FURNISHING
HARDWARE

REMODELING?

*The Best Quality Antique
Reproduction Victorian
Hardware*

Old World Hardware Co.

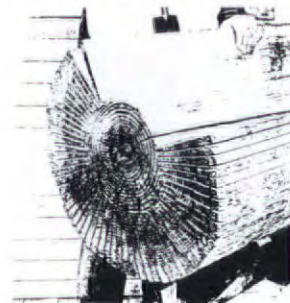
P.O. Box 1209 Dept. OH
Pagosa Springs, CO 81147
1-800-845-7030
FAX (303) 264-2265

Send \$3.00 for catalog.



The Ward Quartersawn Clapboard

*Authentically Produced
Early American Clapboards*



Over 100 years of continuous operation by the Ward family. Quartersawing produces a vertical grain which eliminates warping and accepts paint and stain easily for extended life and beauty. Spruce and pine. Widths from 4-1/2" to 6-1/2". Pre-staining available.

Ward Clapboard Mill

P.O. Box 1030
Waitsfield, VT 05673
Moretown, Vermont
(802) 496-3581
Patten, Maine
(207) 528-2933

WOODEN FLAG POLES

Put the Spirit of 1776 in Your Front Yard.

A few of these prized wooden poles still grace mansions, schools and courthouses across America. We're recreating this era for today's caring home-owner in hand-made wooden beauties with the classic square-to-octagon-to-tapered round design.

Made of select Douglas Fir, they're turned on a custom lathe and painted with ten coats to a gloss white finish.

Shipped to your home, ready to install on our rust-free steel base. Poles come with all accessories plus a *brass custom-engraved and numbered owner's plaque* and 50-star and original 13-star flags. Our poles are made to order and guaranteed to last a lifetime. Can't buy at retail. **Allow 6-8 weeks for delivery.** Write or call for free color brochure, details.

TOLL FREE 1-800-285-2122

HENNESSY
HOUSE

Enhancing the grounds of the traditional home.
423 Tehama - B, San Francisco, CA 94103

**Restoration Glass will
change your view of history.**



Why are architects specifying authentic Restoration Glass? Because it's *imperfect*. Each sheet is made by craftsmen, using the original cylinder method. Yet this glass easily meets today's building codes. And it's available in two levels of distortion.

Once you've seen the difference Restoration Glass makes, no true restoration will look authentic without it.

For details call toll-free 800-221-7379.

In New Jersey: 201-471-1733.

Fax: 201-471-3475.

S.A. Bendheim Co., Inc.

61 Willett Street

Passaic, NJ 07055.

Bendheim



Your old home has earned its stripes.

So own the historically correct U.S. flag for the year it was built. High quality 3x5' flag in cotton or nylon. Custom made so allow 8-10 weeks delivery. \$59.95 each. Includes history and care. Satisfaction guaranteed. Write for free brochure.

Old Glories Vintage Designs - PO Box 33077 - Cincinnati, OH 45233

Name _____

Address _____

City/State/Zip _____

Year or Circa _____ ☐ Cotton ☐ Nylon

☐ Check/MO enclosed: total \$ _____

☐ Visa/MC# _____ Exp. _____

Signature _____

Add \$3.50 shipping/handling. OH residents add sales tax. Mail to:
Old Glories Vintage Designs - PO Box 33077B - Cincinnati, OH 45233

Craftsman Cottage

A LOW-PITCHED ROOF AND EXPOSED RAFTERS UNDER THE gables are two of the unmistakable Arts & Crafts details on this Craftsman-style cottage. Other authentic elements include "top-heavy" windows, shingled siding, and partial-width porches supported by tapered columns on square piers. The well-designed, compact floor plan and interior touches, such as the built-in bench in the foyer, are in keeping with the early-20th-century ideal for a comfortable house.

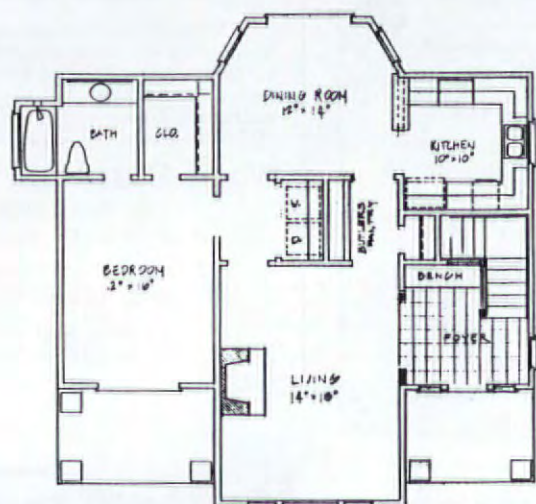
Plan: HH-04-PV

Costs: \$150; \$250 (set of 5); \$350 (set of 8)

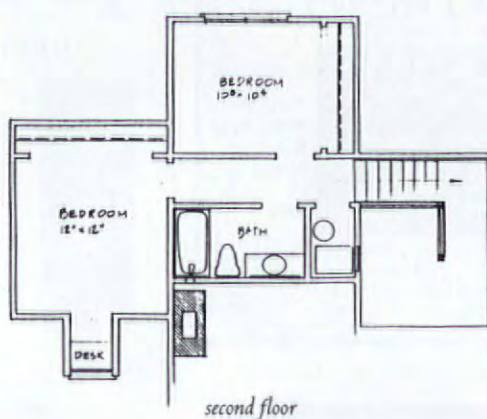
Square Footage: 1,460' (total), 1003' (first floor), 457' (second floor)

Ceiling Height: 8' (first floor), 8' (second floor)

Overall Dimensions: Width: 38'0"
Depth: 35'4"



first floor



second floor



From the Heart of the South...

ANTIQUE HEART PINE FLOORING

Custom Milling from Antique Beams
Heart Pine • Heart Cypress
Cabinetry • Beams
Stairtreads • Paneling

AMERICAN HARDWOOD FLOORING

Quartersawn • Wide Widths • Long Lengths
Red Oak • Black Walnut
White Oak • Ash • Maple
American Cherry

Albany Woodworks

P.O. Box 729 • Albany, LA 70711 • 504/567-1155

100% COTTON SHOWER CURTAIN



Don't "dump" another plastic shower curtain! Tightly woven 100% cotton duck gets wet, but water stays in the tub. No liner necessary. Machine washable! No more grimy, sticky vinyl. Rustproof grommets. White or Natural, \$35 + \$3.75 shipping. (NY residents add tax). Send check or money order to:

NOPE / (Non-Polluting Enterprises)

P.O. Box 919H, Old Chelsea Station
New York, NY 10113

For VISA/MC orders call: 1-800-782-NOPE

Other products available, call/write for FREE catalog.

DON'T PAINT YOUR RADIATORS

Paint drastically reduces the efficiency of steam & hot water radiators and wood enclosures are poor heat conductors.

Affordable Ace Radiator Enclosures...

- ◆ Offer durability of steel with baked enamel finish in decorator colors
- ◆ Keep drapes, walls & ceilings clean
- ◆ Project heat out into the room

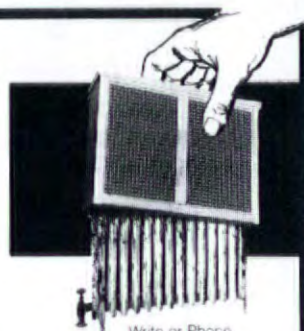
FREE Estimates

FREE Heat Efficiency Catalog

arsco

Manufacturing Co., Inc.

3564 Blue Rock Road, Cincinnati, Ohio 45247



Write or Phone
1-800-543-7040 Toll-Free
1-513-385-0555 in Ohio (Collect)

AHRENS

**Relines/Restores
Masonry Chimneys**

With The ONLY Listed Two-Liner Cast-In-Place Masonry Process

- First insulates and strengthens
- Second seals and protects
- Both are immune to acids and moisture
- No guess work. Mechanically applied.

- No exterior alterations.
 - No metal to corrode.
 - Improves heating efficiency —
- All for a fraction of the cost of rebuilding!**

AHRENS
chimney
technique

Dealership network nationwide.
Call or write for more information:

2000 Industrial Ave.
Sioux Falls, SD 57104

1-800-843-4417

LISTED

ANTIQUE PLUMBING FIXTURES



VINTAGE AND REPRODUCTION
Claw tubs • Brass & Chrome
Showers • Shower Rings • Pedestal
Sinks • Faucets • Oak High Tank
Toilets • Cage Showers • Cross
Handles Porcelain • Hard-to-Find
Parts • A Huge Selection of
Accessories • Expert Advice
Large Color
Plumbing Catalog \$6.00

VICTORIAN AND TURN OF THE CENTURY Chandeliers, Sconces & Fixtures



Recreating the Finest Period
Lighting of the 19th and 20th
Century Americana and Huge
Selection of Antique Lighting
• Design • Replacement
• Contract Parts & Glass
• Manufacturer Shades
• Restoration

Large Color
Reproduction Lighting
Catalog \$5.00

Call toll free 1-800-366-3347. We accept VISA/MC/AMEX
THE FINEST LAMP & FIXTURE RESTORATION AVAILABLE.
ROY ELECTRIC CO., Inc. NYC & LI (718) 434-7002
SHOWROOM: 1054 Coney Island Ave., Brooklyn, NY 11230

HISTORIC WALL PAPERS 1770s - 1920s



Send for information
and complete sample
packs of 14 or more
samples in the following
ranges - \$5 each.

GEORGIAN/FEDERAL
COLONIAL REVIVAL

VICTORIAN

ARTS & CRAFTS/
EDWARDIAN

TILES VICTORIAN EDWARDIAN



Sets, singles, printed,
moulded, florals, fish,
galleons, numerals and
plain field tiles. Send for
colour photographs and
design information - \$5.



Splendid Items for Traditional Homes

CHARLES RUPERT
THE SHOP

2004 OAK BAY AVE. VICTORIA, B.C.
CANADA V8R 1E4 (604) 592-4916

Cape Cod Garage

DRAWING ON THE CAPE COD house form found all over the East Coast, this attractive two-car garage has plenty of storage space—at least 120 square feet next to the parked cars and more in the windowless loft. An outside staircase leads to the second floor, which can be made into an office or workroom by adding windows or skylights.

Plan: CD-11-GA

Costs: \$50

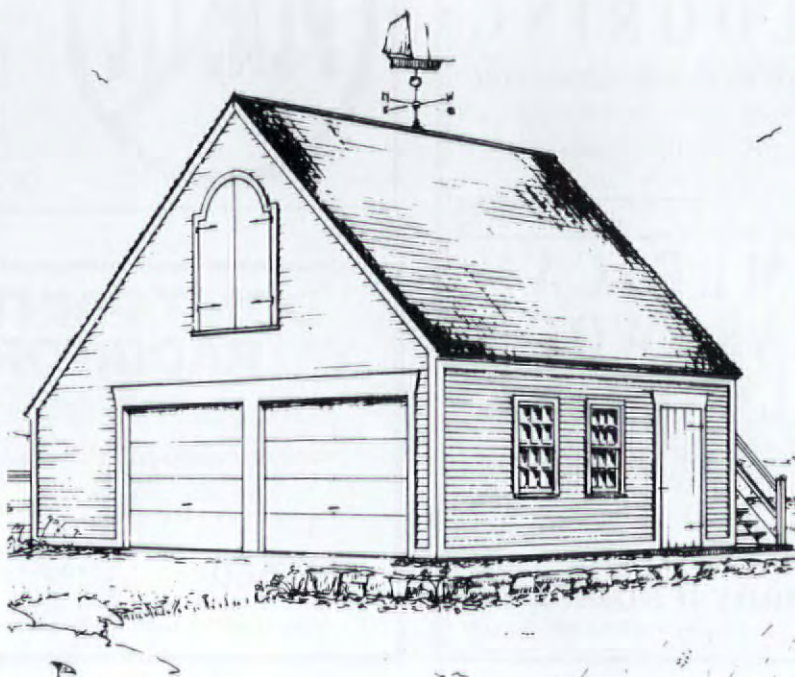
Square Footage: 572' (total)

Height: 20' (to ridge)

Overall Dimensions:

Width: 22'

Depth: 26'



Tool & Wood Shed

A GREAT PLACE TO SET UP A WELL-LIT WORK-bench, this tool and wood shed has enough room to store a ladder, tools, and gardening equipment. Its simple design, with a large, multi-pane window and a shed roof, would complement any 19th-century yard. Note that there is a lean-to wood shed for keeping a face cord of firewood.

Plan: CD-12-GA

Costs: \$25

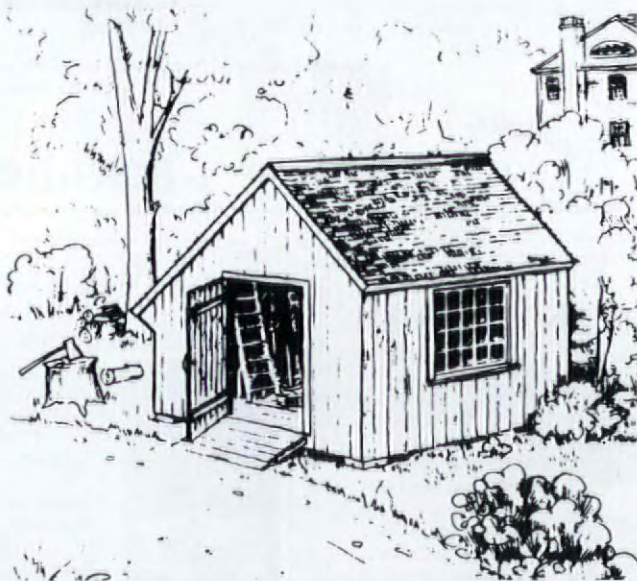
Square Footage: 120' (total)

Height: 13'4" (to ridge)

Overall Dimensions:

Width: 10'

Depth: 12'



Plaster Washers



*Now you can save and restore
your plaster ceilings and walls
for just pennies.*



Charles St. Supply Co.
54 Charles Street
Boston Ma. 02114



Call: (617) 367-9046
or (800) 382 4360
Low prices - Fast delivery

Call in your order today!
Orders shipped within 24 hours
Next day delivery available
VISA and MasterCard accepted
10 doz. for \$10 - 21 doz. for \$20
Complete starter kits \$15.00 & up.



AUTHENTIC
PERIOD WOODEN BLINDS
Movable Louver Shutters
OLD FASHION
WOODEN PORCH SHADES
CUSTOM MANUFACTURED

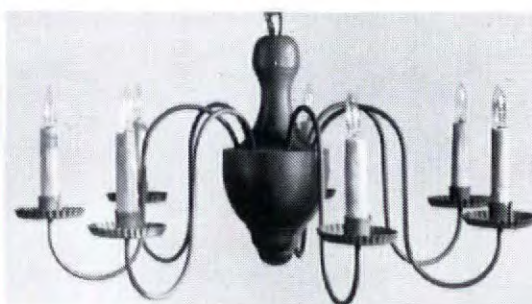
*Call or write for free brochure
and cost schedule*

DEVENCO PRODUCTS
Box 700 — Dept. OHJ-693
Decatur, GA 30031
1-800-888-4597



HANDCRAFTED

To The Drip On The Tapered Candles



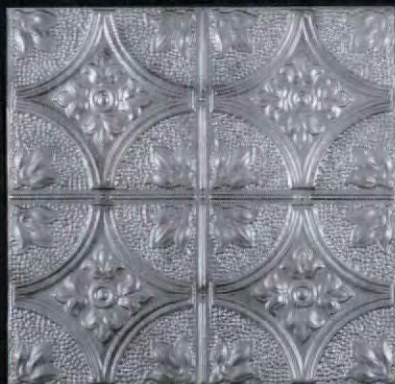
Early American Lighting since
1938; chandeliers, copper lanterns,
and wall sconces.

Knowledgeable collectors, Restorations and Museums have been buying our fine fixtures for over 30 years. A list is available on request. \$2.00 for catalog.

GATES MOORE

River Road, Dept OHJ
Silvermine Norwalk, Conn.
06850 - Tel. (203) 847-3231

Bring Back The 1890s In The 1990s



TIN CEILINGS

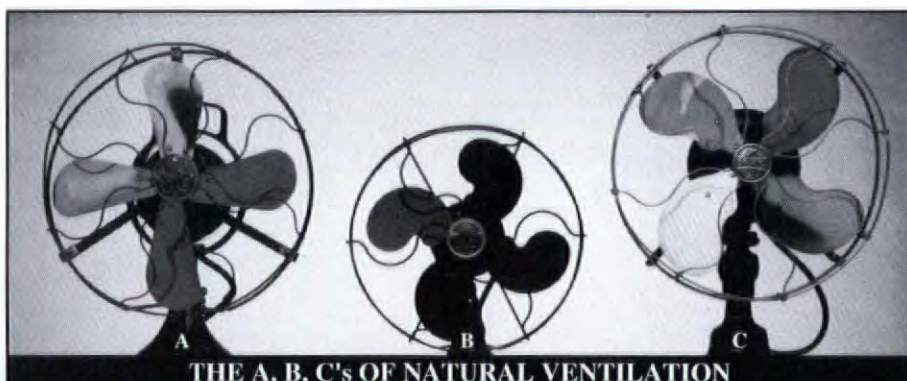
ORIGINAL DESIGNS
VICTORIAN-ART DECO

Send \$1.00 for Catalog to:

CHELSEA DECORATIVE METAL CO.
9603 Moonlight Dr., Dept. 093
Houston, Texas 77096

Questions: 713-721-9200

2' X 4' Sheets For Easy Handling
Shipped Anywhere



THE A, B, C's OF NATURAL VENTILATION

THE FAN MAN, INC.

Department OHJ • 1914 Abrams Parkway • Dallas, TX. 75214 (214) 826-7700
Send \$2 for brochure D

Vintage Pine
COMPANY, INC.

*Custom Manufacturers of
Heart-of-Pine Flooring & Architectural Elements*

*Competitively Priced / Random Widths and Lengths Up To 25' / Tongue and Grooved
Choice of Thickness / Custom Milling / Free Brochure Upon Request*

(804) 574-6531 / P.O. Box 85, Prospect, VA 23960

THE SPECIALIST IN 150-YEAR-OLD HEART-OF-PINE LUMBER SINCE 1972

Anytime Anywhere Anywood

CURVED or STRAIGHT MOLDINGS

*Both are yours with a W&H
Molder/Planer*

Thousands of professionals and serious woodworkers use our American-made cast iron molder/planers to produce smooth moldings, raised panels, crowns and curved molding.

In the shop or at the job site, W&H meets your needs every day with quick knife changeover and ultimate versatility with all kinds of wood.

Over 40 years of experience supports our products with a 5 year warranty! Call or write today for our FREE information kit!

800-258-1380 (USA) 603-654-6828
FAX 603-654-5446

Williams & Hussey
Machine Co., Inc.

Dept. 563EM

P.O. Box 1149 Wilton, NH 03086

W&H

ANTIQUE REPRODUCTION SHOWERHEAD



12-Inch Diameter

The most luxurious and soothing shower imaginable will be yours with this decorative 12-inch diameter Country French-style showerhead. A unique, self-contained reservoir neutralizes outlet water pressure and lets water fall rain-gentle through more than 450 openings in a pattern large enough to cover your entire body. The sensation can only be described as "incredible". Available in either polished brass or chrome reservoir with stainless faces. Installs to standard 1/2" piping quickly and easily with J.B. Adapter.



**JB Products, Inc., 500 N. Oakwood Rd.,
Lake Zurich, IL 60047 (708) 438-9100.**

JB Products is a division of Arrow Pneumatics, Inc.

Handcrafted Wooden Storm-Screen Doors

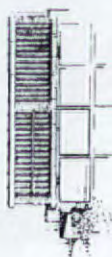
- 36 styles of doors in all sizes.
- Planters and benches in many styles.
- Chippendale railing & gates.
- Many Victorian accents: brackets, running trim, cornices, spandrels, gable decorations and much more.
- Custom orders welcome.



For catalog send \$2.00 to:
The Old Wagon Factory
P.O. Box 1427, Dept. OJ53
Clarksville, VA 23927
(804) 374-5787



Shutters & Hardware



that are history...

Complete service provided

- replicate any shutter or hardware
- technical drawings for Historical Commissions
- consultation & site visits
- installation
- painting

**TRADITION & QUALITY
since 1856**

Beech River Mill Corp.
Box 168, C. Ossipee, N.H. 03814
Fax & Phone (603) 539-2636
Send \$3.00 for Catalogue

RESTORATION

Fireplace & Chimney Restoration Specialists

- Lining (all types)
- Rebuilding
- Repairs
- Chimney
Cleaning
- Chimney Caps



Fully Insured
Serving Tri-State
Area Since 1960

CERTIFIED CHIMNEY CONTRACTORS

3122 Route 10 West • Denville, NJ 07834
NJ (201) 361-1783 • NY (212) 724-9411

1-800-432-1019

Residential-Commercial-Institutional

**CLASSIC
HARDWOOD
REPRODUCTIONS
OF BORDERS
AND FULL ROOM
PATTERNED
FLOORING**

**CIRCA
1880-1920**

**HISTORIC
FLOORS
OF OSHKOSH**

P.O. Box 572
Oshkosh, WI 54902
(414) 233-0075

**CALL OR WRITE FOR
FREE LITERATURE
OR SEND \$25.00
FOR FINISHED
BORDER SAMPLE.**

"Elevette" Practical Luxury.



More and more homeowners are discovering the practical luxury of "Elevette," the custom-built residential elevator. It's the perfect solution for those who shouldn't climb stairs. It's the ultimate in convenience. And it's tax-deductible when recommended by a doctor.

For more information on the "Elevette," write:

INCLINATOR
COMPANY OF AMERICA

Dept. 21
P.O. Box 1557
Harrisburg, PA 17105-1557

SERVING THE BUILDING INDUSTRY SINCE 1929
hand operated
commercial & residential

WHITCO

dumbwaiters

VINCENT WHITNEY COMPANY

MANUFACTURERS • SASH HARDWARE • DUMBWAITERS

60 Liberty Ship Way/P.O. Box 335
Sausalito, CA 94966/(415) 332-3260
(800) 332-3286 FAX (415) 332-0816



Buy the original, not an imitation TIN CEILINGS & WALLS

- 26 patterns available 2' x 8' and 2' x 4'
- Brass and copper-plated pre-painted patterns available in 2' x 4' size
- Lay-in panels in 2' x 4' & 2' x 2'
- 13 cornice moulding styles
- Pre-cut miters
- Fast and easy installation
- Shipped anywhere
- Send \$1 for brochure

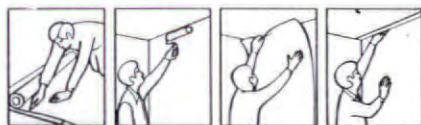
**AA ABBINGDON
AFFILIATES, INC.**

2149 Utica Ave., Dept. OHJE
Brooklyn, NY 11234
(718) 258-8333



RESTORE CRACKED WALLS

- Vapor Barrier ➤ 1 day Application
- Cost Effective ➤ Remove no trim



1. Cut fiberglass mat 2" longer than height
2. Apply saturant to area to be covered
3. Apply fiberglass mat to wet surface
4. Trim excess mat where wall meets ceiling



5. Trim mat at baseboard and windows
6. Trim mat around outlets, switches, etc.
7. Apply second coat of saturant to wet mat
8. Apply 1st coat of saturant to adjacent area



9. Apply mat to 2nd area, overlapping by 1"
10. Cut down center of overlap (both layers)
11. Remove mat strips on both sides of cut
12. Apply 2nd coat of saturant (include seam)

SPECIFICATION CHEMICALS, Inc

824 Keeler St. Boone, IA 50036

800-247-3932



Elegance You Can Afford

FOR OVER HALF A CENTURY

**DIRECT FROM KING'S,
THE DESIGNERS AND MAKERS.**

\$3.50 for 100 pg. illustrated catalog (1st class mail) of our ALL-crystal chandeliers; our genuine SWAROVSKY STRASS; our handsome, hand-polished brass and crystal wired Victorian gas reproductions. Satisfaction guaranteed.

KING'S CHANDELIER COMPANY

PO Box 667 Dept OHJ-593 Eden NC 27288



GENUINE MILK PAINT

Authentic Colonial and Shaker Finish
environmentally safe • non-toxic • odor free
easy to use • long wearing • won't fade

- 12 deep rich colors: Barn Red • Pumpkin
• Mustard • Buttermilk • Bayberry •
Lexington Green • Sea Green
• Federal Blue • Soldier Blue •
Slate • Oyster White • Pitch Black

See your local dealer or write or phone
for free literature

Trial pint—\$7.95 plus \$4.00 shipping/handling
Visa and Mastercard accepted

The Old Fashioned Milk Paint Company
Dept. J, Groton, MA 01450-0222 • (508) 448-6336

Finely crafted cupolas
with handseamed copper
roofs, period weather
vanes, caps and
finials for
replication or
restoration.

Free brochure.
Catalog \$4.00.



DENNINGER

CUPOLAS & WEATHER VANES

RD1 BOX 447J
MIDDLETOWN,

(914) 343-2229
NEW YORK 10940



RESTORATION SERVICES

ARCHITECTURAL SERVICES — Architectural and preservation problem-solving for old buildings: Architectural services include restoration, conservation, replication and additions, building evaluation, analysis, technical assistance and trouble-shooting. Research and consultation are also available. Award-winning specialists in residences, churches and history museums. The Office of Allen Charles Hill, AIA, Historic Preservation & Architecture, 25 Englewood Road, Winchester, MA 01890, (617) 729-0748.

MASONRY RESTORATION — Concrete and terra cotta restoration. Crack epoxy injection repair and waterproofing. Serving San Francisco area since 1979. Watertight Restoration Inc. P.O. Box 620216, Woodside, CA 94062, (415) 948-7622.

HISTORIC TILE RESTORATION — Damaged tile restored or replicated. Consultation, documentation, appraisals. Authentic reproduction of many American Art Tiles. Batchelder reproduction tiles, available stock including relief designs, flat and trim pieces for historic fireplace designs. Twelve authentic colors plus his elusive blue. Tile Restoration Center, 3511 Interlake North, Seattle, WA 98103, (206) 633-4866.

WOODSTRIPPING AND REFINISHING, INC. — All architectural wood finishes expertly stripped and refinished, since 1983. New Jersey based - will travel. Free estimates, fully insured. Contact Jack Hone, 5 Spring Lane, Warren, NJ 07059, (908) 647-7120.

EXTERIOR COLOR SCHEMES — Custom-tailored color designs for your home or commercial buildings. Services are

available nationwide through mail order. We also teach "How To" seminars to groups. Nationally known and respected. Contact: The Color People, 1546 Williams # 201, Denver, CO 80218, (800) 541-7174, or fax (303) 388-8686.

HISTORIC WOODWORKING — Interior and exterior architectural millwork. Historic replication and radiused work our specialty. Window frames and sash, and light pattern or balance system. Frame-and-panel doors, dowel or mortise-and-tenon construction. Mouldings, railings and detail, any profile or pattern. McDan Woodworking, 374 East Broad Street, Gibbstown, NJ 08027. Contact David Dannenberg or Michael McClintock at (609) 423-5337.

RENOVATION AND PRESERVATION OF HISTORIC STRUCTURES — Specialists in architectural detail conservation: cleaning, consolidation, replacement of deteriorated elements. Conservation of stone (sculpture, portals, capitals, reliefs, gravestones), masonry, flat and ornamental plaster, stucco, graffito, woodwork, decorative metalwork. Also complete interior restoration and murals and painting conservation. Polan Renovation, P.O. Box 281155, East Hartford, CT 06128-1155, (203) 289-7006.

GOLD LEAFING AND SPECIALTY PAINTING — of interior woodwork, plaster. Specialists in colonial-period vinegar finished, ultra-realistic Victorian graining & matching rare wood grain. Also translucent glazing, marbling, clouds; furniture decorating; children's rooms. Large portfolio. Decorator & architect references. Serving Northeast. Mulligan & Phillips, 55 Monroe Place, Bloomfield, NJ 07003, (201) 748-4680.

SOUTHWESTERN ARCHITECTURAL SPECIALIST — Emphasis on planning, design services for restoration and rehabilitation of Southwestern properties. Peter Looms Architect, Studio Sipapu, P.O. Box 5091, Taos, NM 87571, (507) 758-8810.

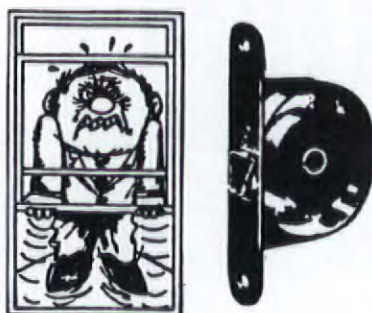
TILE-RELATED INFORMATION — The Tile Heritage Foundation, a national non-profit organization, acts as an information and referral service for anyone seeking information about historic tiles, restoration, reproduction or design. For a free membership brochure or illustrated book list (\$2), contact Tile Heritage, P.O. Box 1850, Healdsburg, CA 95448, (707) 431-8453.

STRUCTURAL RESTORATION — Specialists in structural member replacement to Colonial timberframe. Homes, barns, grist mills and churches. We provide 23 years experience in jacking, squaring, sill replacement, interior and exterior restorations. Repair to structures damaged by natural disasters. Consulting services available nationwide. George Yonnone Restorations, RD 2 West Center Rd., West Stockbridge, MA 01266 413 232-7060.

This special classified section is available to designers, consultants, contractors, and craftspeople offering hard-to-find restoration services. Rates are \$200 for the first 40 words, \$4.00 for each additional word. Logos can be printed on a space-available basis. The deadline for inclusion is the 1st of the month, 2 months prior to publication (January 1st for the March/April issue). Submissions must be in writing accompanied by a check.

Old-House Journal
Attn: Restoration Services
2 Main Street
Gloucester, MA 01930

SPRING COUNTERBALANCES



Struggling with your windows? Replace old pulleys, weights, and ropes for smooth, trouble-free operation.

No need to remove the sash. Send for more information through the Reader's Service section of this issue.

Pullman Mfg. Corp.

PHONE: 716-334-1350 FAX: 716-359-4460

Authentic Colonial Woodworking



Windows, Doors and Entryways
Old Glass, Moldings
Raised Panel Walls

Free brochure available

**Maurer & Shepherd
Joiners Inc.**

122 Naubuc Avenue
Glastonbury, CT 06033
(203) 633-2383



WESTERN RED CEDAR
DOUGLAS FIR
REDWOOD • CYPRESS
MAHOGANY

Roofing • Siding • Decks • Trim

**ROOFING FOR HISTORIC
PROJECTS A SPECIALTY**

CUSTOM ORDERS WELCOME

535 LIBERTY LANE
WEST KINGSTON, R.I. 02892
800-88CEDAR 401-789-6626

WE SUPPORT SUSTAINABLE & RENEWABLE
RESOURCE MANAGEMENT



HANDSOMELY CRAFTED WOODEN SCREEN DOORS

Whether your home is on the Historical Register, or still on the drawing board, Oregon Wooden Screen Door Company has a variety of screen doors and energy-efficient storm doors suited to you.

Designed for interior as well as exterior use, each door component is constructed using the finest materials and joined with wooden pegs and glue (no nails).

For complete information and styles available, send \$3 (refundable with Purchase) for our catalogue.

Oregon Wooden Screen Door Company
Dept. OHJ, 2767 Harris, Eugene, OR 97405



**Oregon
Wooden Screen Door
company**

Over 50 Grille Sizes & Designs LARGEST SELECTION OF IN-STOCK CAST IRON OR BRASS REGISTERS & GRILLES.

Enhance the appearance of your home. Whether building, remodeling or simply redecorating, our beautiful 100% solid cast grilles finish off any room perfectly. Ideal with forced-hot-air systems, wood stoves, even solar collectors.

Request our color catalog. \$1.00

The Reggio Register Co.
Dept. D305 P.O. Box 511
Ayer, MA 01432

**Reggio
Registers**

CALL (508) 772-3493



The Aquetong Chandelier

Eight gracefully curved arms on this chandelier provide elegant lighting in any home. The arms are of two lengths to create a two tier effect. The wires are cleverly concealed in hollow tubing in both arms and center. A specially designed canopy is included to complete this traditional design. Approx. 29"W x 26"H \$350.00 S&H inc.

***MUSEUM QUALITY HARDWARE
CRAFTED BY J.G. BECK
* TRADITIONAL WROUGHT IRON
DESIGNS**

Send \$4.00 for our full line catalog.
(Refundable with order)

IRON APPLE FORGE
Routes 263 & 413
P.O. Box 724
Buckingham, Pa 18912
(215) 794-7351



EMPORIUM

Old House Journal • May/June 1993

Real Estate

PRESCOTT, AZ — National Register Victorian cottage with beautiful original Spanish Mission interior. 4 bedrooms, 2,000 sq. ft., barrel vaulted living room, handwrought fixtures. Private in town mile high location with gorgeous views of surrounding mountains. Carefully and completely restored. \$250,000. (602) 778-5391.



MARION (SOUTHINGTON), CT — C.1836 National Park Register Greek Revival. 2,800 sq. ft., 4-5 bedrooms, 3 fireplaces, beehive oven, gourmet kitchen, Subzero, Jennair, security system, lawn sprinklers, in-ground pool, 2-storey post & beam barn, 1.75 acres of privacy. \$319,000. Call (203) 621-5586.

STONY CREEK, CT — Utility up-dated, 8-room, 2 bath, wide-plank floored, 1790 waterfront. Private beach, boat mooring, facing Thimble Islands. Charming old village, 12 minutes from New Haven, 1-1/2 hours from New York. \$450,000. Owner will finance. (203) 481-2612.

WARREN, CT — "Rawburn Hall," c.1760. Beautifully restored home, 12 sub-dividable acres. 4 BR, 2-1/2 baths, 4 fireplaces, chestnut floors, high ceilings. Plus heated restored barn, business premises of prominent antique dealer. Asking \$165,000. Call (203) 868-7173.

DOVER, DE — Built c.1880 of Italianate brick. It is a three-storey residence, detailed with a bracketed frieze at the overhanging eave and hood moulds above the elongated window openings and an oriel window. A wrap-around porch is supported by Tuscan columns. G.M.S. Enterprises (302) 734-5809.

DOVER, DE — Two large 19th-century carriage houses. Unique trim. Center of Historic Dover. Must be moved. Many potential uses. Call (302) 734-5800.

OCALA, FL — Victorian 1886 National Historic District. Gracefully aged one storey. Heart pine construction. Two or three bedrooms, living room with bay window, dining room, kitchen, bath, 11 ft. ceilings, two fireplaces. Excellent schools and convenience. \$150,000. Call Freeman's (904) 629-8190.

TAMPA, FL — Nostalgic vacation rental home. Two-storey, wood frame home, c.1937. Tree-shad-

ed half-acre lot. Three bedrooms, two baths, dining room, parlor, library, laundry, kitchen restored to 30s era. Furnished w/antiques, TV, VCR, radio, washer, dryer, microwave, etc. Accommodates 8. \$450-600/week. One week minimum; (813) 933-6892 or 872-1551.

AUGUSTA, GA — C.1914 American Foursquare in historic neighborhood. Close to annual Master's golf tournament, Savannah River, major hospitals, and colleges. Ideal location for retirement. Currently being rented for \$750/month. Asking \$80,000. (803) 739-2664. Bill or Carol Fletcher.

NEWMAN, GA — 1856 Greek Revival on 1/3 acre in Historic District in small town 25 minutes from Atlanta airport. Over 4,000 square feet. 4 BR, 3 BA, twin parlors and mahogany doors. Corinthian columns. New roof, wiring, plumbing, and zoned central H/AC. B & B possible. \$229,500; (404) 251-5031.

SWAINSBORO, GA — COLEMAN HOUSE, B & B inn and restaurant. Featured in the new America's Painted Ladies, c.1903 Victorian mansion. 9,000 sq. ft., 12 bedrooms, 12 baths, 11 fireplaces, heart pine bead board interior. Totally restored 8/90, GA Trust Outstanding Rehabilitation Award Winner (91), National Register Listed, on 2.75 acres. Commercial property, illness forces sale \$595,000. Contact Ron Horvath: (912) 237-2822.

ROCK ISLAND, IL — The Mitchell House. 1870 brick Italianate mansion at the heart of active residential neighborhood. Near thriving downtown riverboat gambling and entertainment district. Substantial rehab can restore this home to its past elegance. Financing available. Call (309) 793-3350.

SALEM, IL — 1854 Italianate brick home. Partially renovated. 12 rooms. All original woodwork intact; some has been stripped. Located on one acre, one block from Marion County courthouse. Small town setting: low taxes, good schools; economic incentives available. \$59,000. (618) 548-0893.

FALL RIVER, MA — C.1750 Tory House, convenient to Providence, Boston, fieldstone foundation, post and beam construction, some original doors, corner posts, Georgian beaded moulding. Two fireplaces, warm water well, beehive oven; 2 full bathrooms, modern kitchen, four bedrooms. \$155,000. (508) 678-7994.

SEEKONK, MA — C.1750. Distinctive double cape. One acre with perennial gardens, stone walls, overlooking river and golf course. 5 bedrooms, 1 bath, 4 fireplaces. 12' x 12' shed. Minutes to Providence and train to Boston. \$249,500. Call (401) 245-1804.

SHERBORN, MA — 1833 - Town's Finest Greek Revival House; 18 miles SW Boston. Large barn, sheds, wellhouse. 1/2 acre, 4-1/2 bedrooms, 5 others rooms, 2-1/2 baths, 6 fireplaces. Total interior rehab, utilities needed. 1992 septic system. \$190,000. Homer, (617) 449-1341.

WAREHAM, MA — Crocker-Fleming House 1760. National Register-eligible, with original floors, fireplaces, trim. Near Tremont Nail Co. in historic Wareham. Zoned commercial for offices, retail with live-in quarters. \$189,000. For prospectus, send \$2 P/H to 2586 Cranberry Highway, Wareham, MA 02571.

BELFAST, ME — "Currier & Ives setting." 1888 updated farmhouse, 10 rooms, 2 baths, modern country kitchen, attached 30 x 40 barn with studio. Mature fruit trees, wood sauna & stone walls on 3 landscaped acres with Penobscot Bay views. \$180,000. Call (207) 338-5447.

BETHEL, ME — 18th-century, huge home and business property, declined National Historical Register for business reasons, seeking an experienced innkeeper/entrepreneur to purchase a no-fail business location, send credentials, wants, and questions to P.O. Box 954, Bethel, ME 04217.

PEMBROKE, ME — C.1810 Cape (1,900 sq. ft.) lifted and floor added (1,100 sq. ft.) c.1870. Beautiful 1-acre corner lot overlooks saltwater river in way downeast coastal village. Needs restoration, including foundation. Many period details remain intact. Possible Inn. \$28,000. Call (207) 853-2993.

PAWPAW, MI — Wonderful 3,600 sq. ft. Victorian w/100' on village lake. Four bedrooms; two baths; master bedroom with glassed-in sun porch. 40' living room/library w/fireplace. 2-storey barn, privacy fence yard. Huge deck, \$159,900. Kelly (616) 657-4448.

LEXINGTON, MO — Ornate Queen Anne Victorian, brick, 1885, 5 bedrooms, 2 baths, 3 parlors, dining, 10 elaborate fireplaces, pocket doors, 4,500 feet, turrets, iron fence, large corner lot, photos available, historic river town, minutes to Kansas City, \$148,000. (816) 259-4764.

ERNUL, NC — Turn-of-the-century construction. Very unique. 10 rooms, original beadboard walls/tongue and groove pine floors. Renovation begun. Building materials convey (lots!). 3/4 of an acre, 10 minutes from historic New Bern, NC; 45 minutes from ocean. \$25,000. Call (919) 633-8155 (days), (919) 244-2122 (evenings).

SE NEBRASKA — 1 hr. from Lincoln; Omaha 1-1/2 hrs.; K.C. 2 hrs. Lovely Victorian cottage in historic Talmage. 6 rooms, garage, fireplace, many built-ins, original woodwork. Best offer over \$25,000. Perfect for weekend retreat. Built by owner's great, great uncle. (402) 264-3335.

GRAFTON, NH — C.1895 Victorian w/lovely setting on town green. Recently painted 3-color ext. w/porch & some gingerbread. 1.5+ acres w/lilacs & mature plantings. Interior mostly restored. 3 bedrooms, 2 full baths, fireplace, pantry, work shop, garage & basement. 35 mins Hanover (Dartmouth College), 50 mins Concord. Call (603) 523-7902.

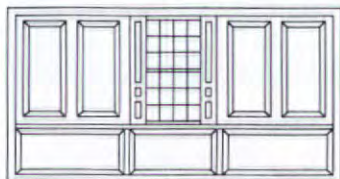
WENTWORTH, NH — Gothic Revival/Carpenter Gothic, c.1860, fully restored. Hilltop six acre site with mountain and river views, wood lot.

VIXEN HILL GAZEBOS



Discover our wide selection of architecturally authentic gazebos, pre-engineered for easy assembly by the non-carpenter. Send \$3 for our 20-page color catalog. Vixen Hill, Dept. OH-3, Elverson, PA 19520. 215-286-0909.

Maple Grove Restorations



Interior Raised Panel Shutters
Raised Panel Walls
Wainscoting

P.O. Box 9194 Bolton, CT 06043-9194

(203) 742-5432

Color Brochure: \$2.00

CAUTION!

All Wide Boards Are Not Created Equal

Here are seven different factors you should be aware of:

1. Proper moisture content. Does your supplier dry the boards to your specifications?
2. Are all boards jointed straight and true so they line up with no gaps?
3. Are all boards planed to the same thickness, eliminating the need for excess sanding?
4. Do all boards meet trade grading specifications?
5. Is the entire order usable when received, or is some percentage of it junk?
6. Does your supplier offer knowledgeable assistance and information on ordering, specifying, and installation?
7. Does your supplier offer a warranty?

Wide boards from *The Craftsman Lumber Company* have been satisfying architects, builders and homeowners nationwide since 1974. All our boards are created exactly to your specifications. Send \$2.00 for literature and grading photos, or phone Charles Thibeau at (508) 448-6336.

The Craftsman Lumber Company

Box 222T, 436 Main St., Groton, MA 01450



DECORATIVE PAINTING CATALOG

Brushes • Sponges • Feathers
Tools for faux finishing,
marbleizing, wood graining
and stenciling.

Period
details
STUDIO

3516 Cadiuex Rd.
Detroit, MI 48224
Fax (313) 885-6578

Catalog \$2.00

Full refund upon purchase



The Brickyard

P.O. Box A
Harrisonville, MO 64701

Build With Pieces of History

Now available in very limited quantities—Authentic decades-old unused clinker brick. Due to changes in brick manufacture, when these are gone there won't be any more. Write for free literature or send \$10.00 for price list, color photos and sample brick. Also available—wire cut solid brick.

EXTERIOR SHUTTERS



Affordable
Shipped Anywhere
Cedar and Pine
Moveable Louvers, fixed
louvers or raised panel.
Custom-made arches.
Unfinished or painted in
the brand & color of
your choice.
Hinges and Holdbacks

Brochure, call or write:

SHUTTERCRAFT, 282 Stepstone Hill
Guilford, CT 06437 (203) 453-1973

Decorative Ceiling Tiles

The elegance and beauty of yesterday but made of durable, lightweight, high impact polystyrene. They are easy to install, paintable and washable. Available in flame retardant materials and colors other than white at special prices. Several patterns to choose from plus custom design and molding services available.

Call or write

**Snelling's
Thermo-Vac, Inc.**

P.O. Box 210
Ph. 318-929-7398

Blanchard, LA 71009
FAX 318-929-3923

WEATHER VANES AND COPPER TOP CUPOLAS



AMERICA'S
LARGEST AND FINEST
SELECTION.

Choose from Thousands
Available or Have Us
Custom Craft Something
Special Just For You!
CALL OR WRITE FOR
OUR EXTENSIVE
FREE CATALOGUE

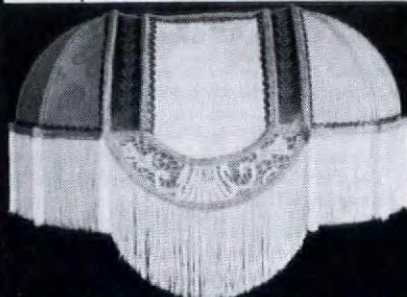
TOLL FREE 1-800-638-8263 IN RI 401-683-7974

Crosswinds Gallery

980-O EAST MAIN ROAD, PORTSMOUTH, RI 02871

Lampshades of Antique

Dept. 8, P.O. Box 2, Medford, OR 97501



96 styles \$35-\$95 • Phone (503) 826-9737
We can recover your frame. Catalog \$4

Ole Fashion Things

Plumbing Supply



10-20%
Off

Bath-Shower Enclosure
Clawfoot Bathtubs • Plumbing Hardware
The Unusual in Plumbing Fixtures

Showroom Hours: Tues.-Sat. 10 a.m.-6 p.m.
402 S.W. Evangeline Hwy. Lafayette, Louisiana 70501

Color Catalog: \$5.00

For Info: 1-318-234-4800

To Order: 1-800-BATH WORLD

EMPORIUM

4 bedrooms, fireplaces, 2-storey great hall with balcony, 3-room apartment. Photos available. \$132,500. (603) 764-9377 or 783-9749.

DA COSTA, NJ — Beautiful 1900 Victorian on 5 beautiful acres. Easy commute to Phila. and Atlantic City. Partially restored, new cedar siding, plumbing, electric, and septic. 3 storey, formal dining room, sun room, pantry, 2 staircases, 2 porches, original features. Needs finishing touches. \$159,000. Call owner (609) 567-9472.

PRINCETON JCT., NJ — 1815 Colonial w/addition. 2,000 sq. ft., 4 BRS, 2 bths on 3/4 wooded acre. Both master bedroom and studio w/cathedral ceilings and skylights. Walk to NYC and Phil. trains and shopping. \$250,000. Call (609) 799-6760.

RAHWAY, NJ — Charming 1850 Saltbox in park-like setting across from river. Recently restored, new electric, plumbing, heat. Three fireplaces, living room, 2-3 bedrooms, full bath, large kitchen, 1/2 bath with laundry room. Wide pine plank floors, front porch. 40 minutes to NYC, 5 minutes to train. \$139,900; (908) 381-9574.

CAPE BRETON, NOVA SCOTIA — c.1840 historical farmhouse. Restored, updated, furnished. Fieldstone center chimney with 4 fireplaces, original wide board walls and beamed ceilings. Living room, family room, dining room, kitchen, three bedrooms and modern bath. Lake Waterfront, 28 acres. \$112,000; (516) 671-0527.

BROOKLYN, NY — Elegant Victorian home filled with stained glass, chestnut/oak woodwork, built-in cabinetry, 5 large BR, 2 baths, new EIK w/French doors to deck and large yard, basement, garage, 40 x 100 property. 340K; (718) 648-1000.

CORONA, NY — C.1890 clapboard house, one family owned, on 50' x 100' lot with mature trees. Front porch, wide board floors, pocket doors, stained glass, all original woodwork, 3 bedrooms, dining, living. Near subway, Shea, La Guardia. \$200,000. (914) 664-0127.

ESSEX, NY — 1858 Greek Revival brick home in historic Lake Champlain village. 2,434 sq. ft. living space + barn, woodshed, porches. Full of original features, mechanical systems replaced. Beautiful Adirondack/Green Mt. Valley setting. \$169,000. Call (518) 963-4412.

MANCHESTER, NY — Exit 43 NY Thruway. Cobblestone, c.1826. 11 rooms, app. 3,800 sq. ft., deep windows, formal dining room, 2-1/2 baths, new electric and copper plumbing, 2 staircases. Very private — with 5 acres. Write for fact sheet. \$199,500. Box 302, Manchester, NY 14504; (716) 289-4166.

RED HOOK, NY — Former "Hoffman Inn." Immaculately restored and maintained 18-room, 1874 Victorian. 4,500 sq. ft., 12 bedrooms, double parlors, marble fireplaces, original wood mouldings and parquet floors, etched glass pocket entry doors, insulation plus double windows, tin kitchen ceiling, new wiring and all copper plumbing. Separate garage and kennel. .8 acre beautifully landscaped, near schools. Country setting with village conveniences. \$425,000. Call (914) 473-4432 or 758-0117.

STATEN ISLAND, NY — 1st place winner 1985 Big Apple Restoration Award; c. 1790 farmhouse, original clapboards, wide pine flooring, wainscoting, etc.; 3 fireplaces, 3 toilets, front and rear porches, garden, large attic, laundry room, 20 minute ferry to NYC. No agent,

\$195,000; (718) 981-8854.

TARRYTOWN, NY — C.1870, significant example of 19th-century villa estate architecture and landscaping. Direct views of Hudson River and Tappan Zee Bridge. Unspoiled 5-6 BRS, 2-1/2 baths, 5 Fpls, 12 ft. ceilings w/plaster mouldings. Beautiful condition. Irvington schools, 1.4 acres with carriage house, 40 minutes train to city. \$649,000. Owner (914) 591-5630.

WESTCHESTER, NY — C.1835, restored, 9-room Greek Revival charming antique home. Four bedrooms, study, family room, elegant living room, fireplace with mantel from English estate, two-storey heated barn, 1/2 acre, brick patio, gazebo. \$269,900. Chris Markatos Associates, (800) 431-1134.

CLEVELAND, OH — 1889 Victorian. 3,600 sq. ft. in a vibrant urban neighborhood near downtown. Spectacular period details, restoration and mechanical updates needed. Home features grand oak staircase, fireplace mantels, gorgeous woodwork, pocket doors, fretwork, more! Zoned commercial. \$72,500. Call Michele, Progressive Urban Real Estate, (216) 589-9696.

TOLEDO, OH — 1857 2nd Empire/Italianate, 16 rooms, 3 baths, full basement, 3 porches, winding walnut staircase open to 3rd floor, mantels, 2 walnut, 1 marble, built-in china cabinet & butler's pantry, original statue, plaster & wood mouldings. Historic district near river. Move-in condition. No down payment, 3.9% financing available. \$125,000; (419) 255-2219.

DREXEL HILL, PA — Spacious 1830s Colonial Farmhouse. LR, DR, library, front room, country kitchen, 7 bedrooms, sleeping porch, 2 full/3 half baths, 3 fireplaces. Office-in-home capability. 2-storey garage. Convenient to Philadelphia. \$279,000. (215) 626-4506.

LANCASTER COUNTY, PA — 1892 brick Victorian townhouse, 5 bedrooms, garage. New gas furnace and hot water. Chestnut woodwork with original finish. Move-in condition. Period furnishings available. Backyard with 9 mature holly trees and 3 dogwood. Beautiful all year. Located along Susquehanna River, good fishing/boating. 30 min. Harrisburg/1 hr. Baltimore. \$89,900. Call Mike Nobile (717) 684-0990.

SHARON, PA — 1909 stately brick Edwardian. Beautiful woodwork, original finish oak LR, tiger oak DR, oak staircase, cherry parlor. 15+ rooms, 4 fireplaces, built-in icebox, pocket doors, annunciator, blueprints. Always single family. \$55,000 or B.O. Call (412) 346-4374. Leave address for brochure.

RED OAK, TX — Victorian reproduced in 1985-86. Situated on 1.38 acres away from hustle and bustle of city. 2,300+ sq. ft. of relaxed living area. Formals, two wood burning fireplaces, oak parquet floors and oak cabinets. Three bedrooms upstairs. Call (214) 617-8056.

BEAZLEY, VA — "Greenway" ca. 1690/1827. Restored, set well back from road. Original doors, floors, windows, mantels are most intact. Five fireplaces, 100+ boxwoods, 269+ acres with 85+ open. Stream. \$495,000. Dave Johnston, "The Old House Man" (804) 758-0740. IsaBell Horsley Real Estate.

WEST HAVEN, VT — 1798 National Register Georgian/Federal with cove-ceiling ballroom, original features. 12 rooms, 3,000 sq. ft., slate

roof, post/beam. Unique. Excellent location. \$225,000 with three acres. More land available. Avery, RFD Fair Haven, VT; (802) 265-4492.

PORT TOWNSEND, WA — Victorian charm, built in c.1870. This 6 bedroom Bed & Breakfast sits on the bluff and provides guests with a commanding view of the Mountains and Bay. The pull down bath tub is only one of the wonderful antiques included. Truly an Inn of unusual charm and grace. \$525,000. Call Teresa Goldsmith or Carolyn Harding at Era Olympic Real Estate; (800) 869-7834.

MADISON, WI — 1863, brick Greek Revival. Located downtown in historic first settlement. Partially renovated, new mechanicals & roof. Three bedrooms & 2 baths. Formal dining room & large kitchen. Historical Register candidate if front porch is corrected. 140K, (608) 257-2988.

WAUPACA, WI — Museum quality 1893 Queen Anne. As featured in "American's Painted Ladies" on page 159. Interested parties send inquiries to: 315 E. Lake St., Waupaca, WI 54981. House must remain unaltered.

WHITEWATER, WI — Italian villa, 1856. National Register and Whitewater Landmark. 3,000 sq. ft. excellent condition. Many unusual features, eg. twin marble fireplaces, double etched door light; 4+ bedrooms, 1-1/2 baths, 2 energy efficient furnaces. Large landscaped lot, hobby house, Centrally located. Close to Kettle Moraine recreational area, 2-1/2 hrs from Chicago and 1 hr from Madison or Milwaukee. Rose and Galen Smith, 445 W. Center St., Whitewater, WI 53190; (414) 473-7322.

SHIRLEY, WV — Forget spackling, these two 1860s properties don't need any. #1: 6,500 sq. ft. wood general store building, original shelves, living space, on 3/4 acre with 2,000 sq. ft. garage/storage; \$59,000/offer. #2: 1 acre with main house (fancy woodwork), cottage (plain), garage, out buildings, fruit/nut trees; \$29,000/offer. Both in small town, paved road, fishing stream, owner, Dale (800) 846-6606.

For Sale

PRINTS - SERIGRAPHS - ORIGINALS — Most major artists including Bama, Bateman, Behrens, Brenders, Christensen, Coheleach, Crandall, Doolittle, Erté, Fracé, Harvey, Künstler, Lyman, McCarthy, Neiman, Parson, Redlin, Terping, Townsend, Wieghorst, Wysocki - most others. Excellent prices, special sales, CFQ's. National Wildlife Galleries; (800) 382-5278.

GLENWOOD GAS RANGE — C.1940. Large, white, gas range/oven, in fine working condition. Glenwood model 1200CP MFGD, serial #1515, 20,000 BTU/hr. Located in Boston area. Call (617) 332-8289.

SQUARE-CUT PAVING STONES — Rare, century-old, red, pink, and purple square-cut granite paving stones. They make colorful drives, patios, walls, and fireplaces. Tim Borron, 302 Hazel, Buckner, MO 64016; (816) 249-3700.

TWO GOTHIC STAINED GLASS WINDOWS — (yellow diamond panes with green trim) set in half circle. Shaped heavy wood frame. 12 ft. W x 6 ft. H. Each has 4 vented windows across bottom. \$1,500 each. Call Nick (201) 798-3997.

CUT NAILS

for Restoration, Remodeling,
Decorating and Historic Building
from America's Oldest Nail
Manufacturer

Send for our FREE catalog featuring
a wide variety of antique hardware,
trunk hardware, iron strap hinges
and our complete line of our nails
including rose head, fine finish and
wrought head.

Send for Cut Nail Sample Set, 20
authentic historic varieties includes
a history of Cut Nails in America. \$4.99

TREMONT NAIL CO.

Box 111-HJ53, Wareham, MA 02751



Authentic Antique Hardware

- One of a Kind
- No Reproduction
- Door Hardware
- Furniture Hardware
- Door Knockers
- Curtain Tie-backs
- Twist Bells



Eugenia's Place

5360 Peachtree Ind. Blvd. • Chamblee, Georgia 30341
Bus. (Fri-Sun): (404) 458-0682 • Res. (Wkdays): (404) 261-0394

EXTERIOR COLOR CONSULTANTS

Exterior color solutions profes-
sionally designed for period
buildings

Call for free brochure

(800) 758-3058

Post Office Box 26, Ojai, CA 93024

BATHROOM Machineries

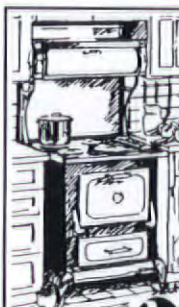


**Early American Bathroom
FIXTURES & ACCESSORIES**

Send \$3 For Complete Color Catalog

(209) 728-2031

BOX 1020 OH • MURPHYS, CA 95247



Classic Cookstoves

Traditional appeal with
state-of-the-art features.

30" and 48" stoves avail-
able in gas, electric and
woodburning models.

Send \$2.00 for a full
colour catalogue and
location of your nearest
Heartland Dealer.

**Heartland
Appliances Inc.**

Heartland Appliances, 5 Hoffman St., Dept. 16
Kitchener, Ont. N2M 3M5
(519) 743-8111 Fax (519) 743-1665

VICTORIAN



SAVE UP TO 40% OFF SUGG. RETAIL.

Color catalog of Victorian & French reproductions.

Shipped frt. collect

Send \$3 for catalog, foreign \$6
(included with first order)

MARTHA M. HOUSE

1022 SO. DECATUR ST. DEPT OHJ593 Since
MONTGOMERY, ALABAMA 36104 1954
(205) 264-3558

**AUTHENTIC
VICTORIAN**

**SCREEN-STORM
DOORS**

Touchstone Woodworks

Dept. OHJ PO Box 112

Ravenna, OH 44266

(216) 297-1313

Send two dollars to view our elegant collection

Custom Turning Service

we turn:

Porch, Stairway
& Furniture Parts

FREE BROCHURE
FREE QUOTES

National Decks, Inc.
P.O. Box 722
Andover, NY 14806
FAX 607-478-5253
1-800-437-8876



CUSTOM SHUTTERS

INTERIOR • EXTERIOR

Manufactured to your specific requirements
from the finest premium woods available.

**American Heritage
Shutters, Inc.**

2345 Dunn Ave., Memphis, TN 38114
901/743-2800 • 800/541-1186 • FAX 901/744-8356

ALUMINUM PRODUCTS

Custom Fabrication

CORNICES

LOUVERS

CUPOLAS

COLUMNS

BALUSTRADES

SHUTTERS

URNS & BALLS

Baked on finishes available

call or write

**CAMPBELLVILLE
INDUSTRIES, INC.**

P.O. Box 278, Dept. OHJ
Campbellsville, KY 42718
502-465-8135

JOHN LEEKE'S

PRACTICAL RESTORATION REPORTS™

Concise: Quick in-hand reference

Current: Updated frequently

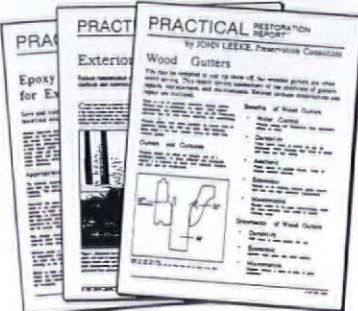
Practical: Packed with proven methods

Detailed technical reports of 10 to 20 pages contain
complete descriptions, drawings and photos of useful
techniques for repair and restoration.

Report Titles:

- Wood Gutters
- Managing Maintenance
- Epoxy Repairs
- Mouldings
- Wood Columns
- Exterior Woodwork

limited offer: \$9.95 each, 3 for \$19.95, 6 for \$29.95



207 324-9597

Visa/Mastercard accepted
RR1 Box 2947, Sanford ME 04073

EMPORIUM

GAS STOVE — 1940s O'Keefe & Merritt, 4 burners, griddle, Grilleator broiler, shelf/cover-up, salt & pepper shakers, automatic oven timer, white/chrome. Looks and works great. \$875 or best offer. (908) 851-0423.

OAK DOORS — Mantels, chandeliers, bronze fireplaces. Call (304) 363-0987 (home) or (412) 777-1328 (office).

CHAMBERS GAS STOVE — C.1940s, three burners, deep well cooker and griddle, white w/chrome top, 26-1/2" deep, 37-1/2" wide. \$250. (717) 763-9381.

ANTIQUA CHAMBERS RANGE — Early 1930s model. White enamel, chrome top with chrome griddle and deep-well burners. Console on back with folding cover over burners. Very clean, works well. Asking \$600. (516) 922-0086. Long Island, NY.

GENERAL ELECTRIC REFRIGERATOR — Early 1930s model. Works well, white, and has a round monitor top which is closed in. No holes on it. Sits on 4 legs, also makes ice. Asking \$400. (516) 922-0086. Long Island, NY.

LATROBE COAL STOVE — 1897, lovely iron-work, mica windows, excellent condition. \$1,600/OBO, Balt., D.C. (301) 994-0468.

OAK DOOR — 42" x 84" x 1-3/4" with 30" x 60" clear beveled glass panel; \$400. 1950s Coral Toilet and 36" Coral bath vanity and sink; make offer. (215) 322-3935.

VICTORIAN BOOK SHELF — Each shelf is 7-1/2" deep, 3/4" thick, and 36" long. Oak bull nosing with indentation for label. Includes 2 cast-iron side brackets 7-1/2" x 7-1/2" - black, round on top with ornate Victorian scrollwork. Came from 1890s Carnegie Library. \$42 per set. C.O.D. Shipping. Michael P. Maxim, 4220 London Rd., Duluth, MN 55804; (218) 525-4485.

ARCHITECTURAL PACK RAT — has lots of antique doors, windows, door knobs, hardware, mahogany newel posts, and too much more old stuff to list. Write inquiries: C. Wallace, P.O. Box #2, Westport Point, MA 02791.

BLACK MARBLE FIREPLACE — from 1850 Astoria town house, excellent condition, \$1,225; fitted carpenter chest, special places for pattern making, \$200; pair Victorian side chairs, needle-point covers, needs repair, \$150 pr. (718) 726-9130.

VICTORIAN DRESSER — This piece is made of walnut, has original brass hardware, unusual marble top, beveled glass and is in excellent condition. \$700 (negotiable). For more information, call (908) 832-5720 or 832-5868.

OHJ ISSUES — Most issues of the Old-House Journal from 1973 - March/April 1993. Write for price and exact issues in collection: 788 E. Maple St., Mason, MI 48854.

THE MAGAZINE ANTIQUES — complete yrs. from 1980 to 1989. Perfect condition, excellent reference for art & antiques, must go to best offer. Call (312) 725-0867.

WALNUT GERMAN REGULATOR WALL CLOCK — c.1880 w/brass pendulum and weights and white enamel face w/roman numerals, time, and strike. 53" high. Excellent condition - a real beauty. (Appraised value \$2,100.) Asking \$1,200 (negotiable). Call (908) 832-5720 or 832-5868.

ANTIQUA STAINED GLASS WINDOWS — 20 stained glass windows, various sizes from historic turn-of-the-century homes in Philadelphia. \$55 sq. ft. plus shipping. For photos, send check for \$2.50 (postage/handling) to: Carl Wright, 330 Winchester Ave., Martinsburg, WV 25401.

CHAMBERS "THERMOWELL" GAS STOVE — White porcelain. Excellent condition. Circa 1935. \$400 obo. (703) 528-4608.

PARLOR PUMP ORGAN — Mason & Hamlin, circa 1870. Walnut 36" H x 44" W. \$235. Call (201) 825-7388.

OLD POURED GLASS WINDOWS — 16 - 6/6, 8-3/4" x 11-1/2"; 5 - 2/2, 12" x 29-1/2"; 1 - 6/6, 7-3/4" x 9-1/2". Approximately 200+ panes. \$50/window or best offer. Call (703) 955-3657.

HINGES — 14 pair c.1889, iron, 4-1/2" square, ball top, "Queen Anne" style, loose-joint. City salvage. Proceeds to preservation commission. \$40/pair minimum bid - plus s&h; over minimum. Send bid postmarked by July 9, 1993, to: "Hinges", City Clerk, 435 Ryman, Missoula, MO 59802.

SAUTTER HOUSE FIVE — Wallpapers of a German-American Farmstead. Text, color/b & w photos of wall coverings, 1860s-1916, Nebraska's pioneer period. Historically documented. 1983, 33 pp., pbl., 8-1/2 x 11, \$8.50 + \$2.50 shipping. Bulk rate available. Historical Society of Douglas County, PO Box 11398, Omaha, NE 68111; (402) 455-9990

Wanted

AN 18TH- OR 19TH-CENTURY HOME — in or out of small town. Has to be in central or south central Pennsylvania. Brick or stone exterior preferred. 3-5 BR. Call (207) 326-9154 or write Tom or Barb HCR-79 Box 206, Orland, ME 04472.

VELVET AND E. H. SCOTT — Want auditorium velvet for curtains and E. H. Scott chrome radio and two-changer audiotape record player for house. R. Shelar, 252 Main St., Leetonia, OH 44431; (216) 427-2303.

OLD HOUSE — and acreage in rural location within 2-3 hours drive from Washington, D.C. House need not be livable, but must be restorable. Prefer 2-storey, the older and bigger the better. \$50,000 maximum. (301) 779-9279.

SERVANTS CALL SYSTEM — main panel, Victorian wall safe, ornate cast iron pedestal sink base only or with sink. Marcia Kay, P.O. Box 728, Joseph, OR 97846; (503) 426-4673.

SEEKING RENTAL — looking for a restorable, but livable, country estate or Gentleman's farm near Albany, NY (will consider other areas of NY or New England), to RENT with option to purchase after we sell our present Levittown, NY, house. Please call (516) 735-6378.

FRENCH DOORS — Matching set of interior French doors, approx. 30" x 80". Have set of 36" x 95" x 1 3/8" 4-panel doors from 1930s remodeling. Please call (216) 428-6272 - Madison, Ohio.

ROUND VICTORIAN DINING TABLE — with chairs. Victorian dining room chandelier. Antique outside horn phonographs and radios; memorabilia. Eastern area preferred. Photos will be returned. Call Dave at (518) 346-3533 or 882-6671.

ROOF & SLATE TILE — (clay or concrete) Will remove from structure. Do you need slate or tile, or a slate roof (new/salvaged) installed/repaired? Give us a call or write: Slateworks, 117 Elizabeth Ave., Evans City, PA 16033; (412) 538-3538.

Events

PRESERVATION WEEK IN BRISTOL, RI — May 9 to 15. Heritage Walking Tour from Linden Place Gate, Open House at Linden Place, and the Civil War Exhibit. June 11 to 13: Civil War living history weekend at Colt State Park. Call Steve Johnson at (401) 245-4608.

SHEEPSHEARING FESTIVAL — May 15 in Waltham, MA. A day of family activities at Gore Place near Boston. Visitors will see blade shearing of the historic flock of sheep, sheep dog demonstrations, and a large crafts fair. Call Harriet Gordon at (617) 894-2798.

VICTORIAN HOMES & GARDEN TOUR — May 15 in Virginia City, NE. In the nation's largest landmark district, the tour will visit mansion and gardens of the Bonanza kings. Call the Fourth Ward School Museum at (702) 847-0975 or 0311.

PROMENADE THE PAST — May 15 & 16; noon - 6pm both days. Tecumseh, Michigan's 18th Annual Historic Home Tour. 7 beautiful homes, special events galore in this historic town. The Tecumseh Area Historic Society, 302 E. Chicago, Tecumseh, MI 49286; (517) 423-2374.

FAIRMOUNT TOUR — May 15 & 16 in Fort Worth, TX. The tour of the Fairmount neighborhood, located in Fort Worth's historic South Side. Refreshments, entertainment, and guides dressed in period style. Call (817) 927-8244.

CALL FOR PRESENTATIONS — Deadline May 15. "Restoration '93" (Dec. 6-8 in Boston, MA). Need papers for a series of sessions focusing on the theme of "Preservation and the Real World." For a list of topics, call (617) 933-9699.

HISTORIC HILL GARDEN TOUR — June 26 in Newport, RI. Ten private gardens in the Historic Hill Nat'l Register District will be open to the public. Call (401) 848-0696 or (800) 326-6030.

GREAT AMERICAN HOME AWARDS — deadline for submission is June 30. The National Trust for Historic Preservation will recognize outstanding residential rehabilitation projects. Five categories: Interior, Exterior, Additions, Landscape, and a special category for Mail Order Catalogue Homes. For details, contact Joel Cadiz (202) 673-4283.

Classified ads in The Emporium are FREE to current subscribers for one-of-a-kind or non-commercial items, including personal house or property sales. Free ads are limited to a maximum of 40 words. Free ads and below photos are printed on a space available basis. For paid ads (real estate through agents, books & publications, etc.), rates are \$25 for the first 40 words, \$2 for each additional word, \$75 for a photograph. Deadline is the 1st of the month, two months prior to publication. For example: January 1st for the March/April issue. All submissions must be in writing and accompanied by a current mailing label for free ads, or a check for paid ads.

Old-House Journal
Attn: Emporium Editor
2 Main Street, Gloucester, MA 01930

THE BARCLAY SPIRAL STAIRCASE



- Intricate Victorian design
- Modular components in a 5-ft. diameter
- Rugged cast-iron construction
- Available with brass or steel handrail
- Send \$3.00 for complete renovation catalogue

STEPTOE & WIFE
ANTIQUE LTD.
322 Geary Ave.
Toronto, Ontario
Canada M6H 2C7
(416) 530-4200
Fax (416) 530-4666

'100 YEARS BEHIND THE TIMES'™

The Woodfactory

Authentic Victorian Millworks

901 Harvard, Dept. OHJ
Houston, Texas 77008
(713) 863-7600

Moldings • Screen Doors • Porch Parts
Custom Woodwork • Ornamental Trim

Send \$2.00 for a Catalog

ANTIQUE reproduction furniture HARDWARE



HORTON BRASSES
Nooks Hill Rd. • PO Box 120-L
Cromwell, CT 06416 • 203-635-4400
Send \$3.00 for a catalog

WIDE PINE FLOORING & Paneling (12" to 21" wide)

Eastern
White Pine
Southern
Yellow Pine
Wide Oak
Ship-lapped
Pine



Installation
Nation Wide

Carlisle Restoration Lumber
HCR 32 Box 679, Dept. FH
Stoddard, N.H. 03464-9712
603-446-3937
Quality Materials Since 1969



Send \$5.00 for brochure or \$16.00 for sample kit!

Victorian Reproductions



**FACTORY DIRECT SHIPMENTS
AT DISCOUNT PRICES!**
Hand Carved, Solid Mahogany Wood Frames,
Over 200 Fabrics, Italian Carrara Marble Table Tops
Send \$2.00 for catalog to:

**HEIRLOOM
REPRODUCTIONS**

1834 West 5th Street Dept. OHJ Montgomery, AL 36106
Or call Toll Free: 1-800-288-1513

Arts & Crafts Tiles ■ Gothic Revival Tiles
De Morgan Tiles ■ Foliate Tiles ■ Folk Tiles

Persian Revival Tiles

California Arts & Crafts Tile
Hispano-Moresque Style

Designs  In Tile

Box 358 ♦ Dept J ♦ Mt Shasta ♦ CA ♦ 96067
916/926-2629 Color Brochure \$3.

Art Nouveau Tiles
Neo-Grec Tiles ■ Murals ■ Art Deco Tiles

CEILING BUTTONS

To repair sagging plaster ceilings, simply screw the ceiling button up into the lath, and cover with skim coat of plaster or joint compound. **Combo Pak:** Everything needed to do job: ceiling buttons, galvanized screws, insert bit. \$20.00. Ceiling Buttons \$1.20/doz. (6 doz. min) \$16/lb. (21 doz/lb.) Screwgun tip no charge. Send check with order to:

FASTENATION
P.O. Box 1364, Marblehead, MA 01945
FAX: (617) 539-0534

Classic Chinese

18th & 19th
Century

**Blue & White
Porcelain**
with
Traditional
Motifs



SILK ROAD TRADING COMPANY
VISA (800) 343-4404 MC

Custom Shutters

Interior and Exterior
Wholesale to the Public

2 1/2" Moveable louver,
raised panel and fixed louver
shutters. Custom finished or
unfinished. Complete selection
of hardware.

Call or write for brochure

Shutter Depot

RT.2 Box 157
GREENVILLE, GA 30222
706 • 672 • 1214



LIGHTS MAILBOXES
FREE BROCHURE

8'6" Tall

8'0" Tall

ALUMINUM

PLANTERS

\$298

\$198

BRANDON INDUSTRIES
DEPT: OHJ
4419 WESTGROVE DR
DALLAS TX 75248


CALL (214) 250-0456

AT LAST, A WORTHY COMPANION TO YOUR HERITAGE HOME
ERECT PRIMED COMPONENTS IN UNDER TWO DAYS

HERITAGE GARDEN HOUSES

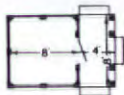
A Morris Design

for use as
Garden retreat
Pool house
Potting shed
Tool storage
Hot tub enclosure
Also colonnades, seats,
cabinets, gazebos...



SUMMER HOUSE \$6500

FIFTEEN METICULOUSLY
CORRECT STYLES:
Classical
Victorian
Japanese
18th and 20th C.



For catalog send \$3.00 to HERITAGE GARDEN HOUSES
CITY VISIONS, INC. 311 SEYMOUR, LANSING MI 48933
517-372-3385

WOOD HEAT



- WOOD
- WOOD-GAS
- WOOD-OIL
- 12-18 HR. BURN
- FIRE BRICK
- TESTED TO U.L.
- A FULL SIZE FURNACE

Never be cold again!
Send for Brochures/Factory Prices

Charmaster®
2307 O HIGHWAY 2 WEST
GRAND RAPIDS, MINNESOTA 55744
218/326-6788 or 218/326-2636

PRODUCTS NETWORK



The advertisers in this issue have literature available, and you can get as many catalogs as you need just by filling out one form.

Building Components

1. Traditional Wood Columns — From 4' to 50' diameter, up to 35' long. Matching pilasters and 6 styles of capitals. Free catalog. Schwerts Manufacturing.

2. Heart Pine Flooring — Flooring cut from 200-year-lumber. Edges and bottoms of boards remilled, but patina of old surface remains. Brochure, \$5.25. The Joinery Company.

62. House Plans — Victorian, farm, and traditional houses with modern floorplans for energy efficiency. Portfolio of Victorian and farmhouse designs, \$12.25. Historical Replications.

73. Restoration Glass — Imperfect glass is perfect for restoration work. Each sheet is made by using the original cylinder method. Free brochure. Bendheim Glass.

125. Architectural Roofing Tiles — Tile roofs get better with age, never need maintenance, can't burn, and can last 50-125 years. Free color catalog. Vande Hey Raleigh.

212. Extra-Wide Boards — Pine boards for flooring or panelling. Custom mouldings & millwork. Literature, 75¢. Craftsman Lumber.

215. Moisture Vents — Small, screened metal louvers, 1' to 6' diameter, release moisture trapped in walls, cornices, soffits, etc. Free literature. Midget Louver Co.

242. Classic Columns — Doric, Ionic, and Corinthian columns sculpted from Ponderosa pine with exquisite craftsmanship. \$3.25. Chadsworth, Inc.

284. Dumbwaiters — Residential and commercial hand-operated dumbwaiters with lifting capacities from 65 to 500 lbs. Free literature. Whitco/Vincent Whitney Co.

387. Quartersawn Clapboard — Vertical grain clapboard which eliminates cupping and warping. These clapboards accept paint and stain. True representations of Colonial architecture. Free brochure. Granville Manufacturing.

392. Heart Pine Flooring — Specializing in reasonably priced heart pine lumber since 1972. Plank flooring, over 150 years old, is also available. Free brochure. Vintage Pine Company.

401. Cedar Shutters — Clear, old growth western red cedar shutters will outlast pine and plastic in looks and life. Standard and custom sizes. Brochure, \$3.00. Vixen Hill.

414. Hydronic Heater — Clean, safe, healthful, and inexpensive floor-to-ceiling warmth.

Portable or permanent baseboard installation. Free information. Hydro-Sil.

438. Quartersawn Clapboard — Vertical grain clapboard eliminates warping for extended life. Free brochure. Ward Clapboard Mill.

488. Metal Roofing Materials — Terne and Terne Coated Stainless. Quality material with a history of proven performance. Free catalog. Follansbee Steel.

492. Design Portfolio — Full-page drawings with descriptions of custom crafted traditional kitchens, and a color brochure, \$10.25. The Kennebec Company.

493. Wood Roofs — Distinctive western red cedar heavy butt roof shingles; excellent for restoration or new construction. Free literature. Liberty Cedar.

517. Flooring — Pine and hardwood flooring. Stair parts, cabinetry, paneling, antique beams. Brochure, \$1.25. Albany Woodworks.

527. Antique Flooring — Antique wide pine flooring. Antique oak and chestnut are also available. Lengths up to 18', widths up to 14'. Free brochure. North Fields Restorations.

580. Reproduction Hardwood Flooring — Authentic parquet borders, strips and full floor patterns. Free brochure. Historic Floors of Oshkosh.

603. Building Plans — A collection of complete buildings for garage, barns, sheds, and other accessory buildings. Catalog \$6.25. Country Designs.

631. Heart Pine Flooring — Premier flooring manufactured from antique heart pine timbers. Catalog, \$15.25. J.L. Powell & Co. Inc.

654. Elevators — Organized in February 1923 to manufacture residence elevators, stair lifts, & dumbwaiters. Free brochure. Inclinator Company of America.

663. English Coal Fire — Now you can experience an authentic English gas coal fire. Most fire openings can be satisfied. Free literature. Grate Fires Inc.

665. Colonial Home Reproduction — Plans available. Catalog of floor plans with photos of completed homes \$15.25. Connor Building Co.

675. Wall Restoration — Repair cracked plaster walls and ceilings. Stops air infiltration and creates a vapor barrier. Free video. Specification Chemicals Inc.

Decorative Materials

20. Tin Ceilings — Victorian and Art deco tin ceiling patterns. Cornices, pre-cut miters, and center medallions. Brochure, \$1.25. AA Abbingdon Affiliates.

26. Push-Button Switches — Quality reproductions of push-button light switches. Switch plates in plain brass or ornamented. Brochure, \$1.25. Classic Accents.

27. Victorian Roomset Wallpapers — Neo-Grec; Anglo-Japanese; Aesthetic Movement. Superb catalog, \$10.25. Bradbury & Bradbury.

42. Country Curtains — Curtains in cotton, muslin, permanent-press, etc. Bedspreads, dust ruffles, canopy covers, and tablecloths. Free catalog. Country Curtains.

47. Tin Ceilings — Ideal for Victorian homes and commercial interiors. Patterns from Victorian to Art Deco. Brochure, \$1.25. Chelsea Decorative Metal.

128. Tin Ceilings — Metal ceilings in turn-of-the-century patterns using original dies. Center plates, borders, corner plates, cornice, and filler plates included. Catalog, \$3.25. W.F. Norman Corp.

245. Plaster Ornaments — From late 19th and early 20th-century periods made using original moulds. Ceiling medallions, brackets, grilles, cornices, etc. Illustrated catalog, \$3.25. Decorator's Supply.

381. Historic Flags — Historically correct flags for the year your home was built. Custom-made quality flags in cotton or nylon. Free brochure. Old Glories.

554. Ornamental Plaster — 2,500 antique ornamental models of all types of architectural elements. Catalog, \$3.25. Felber Ornamental Plastering.

561. Victorian & Edwardian Historic Tiles — Sets and singles; moulded and printed decorative reproduction glazed ceramic wall tiles. Information, \$5.25. Charles Rupert Designs.

617. Wooden Flag Poles — Hand-made classic designs. Ready to install with all accessories including custom engraved owner's plaque. Free brochure. Hennessy House.

669. Anaglypta/Lincrusta Wallcoverings — Includes friezes, wainscottings & full wallcoverings (all paintable). Free wallcovering & moulding literature. Classic Ceilings.

670. Anaglypta & Lincrusta — Distributors of ceiling coverings, borders, friezes & dados. Wallpapers, columns & flexible mouldings. Free catalog. Crown Corporation, NA.

Doors & Windows

9. Replacement Wood Windows — Get a thermally efficient genuine wood window in almost any size and historic shape. Free booklet. Marvin Windows.

PRODUCTS NETWORK

16. Wood Sash — Any size and shape. Insulated glass, shutters, screen doors, and trim. Brochure, \$2.25. Midwest Architectural Wood Products.

32. Wooden Screen & Storm Doors — Period look and are more thermally efficient than aluminum doors. Catalog, \$2.25. Old Wagon Factory.

53. Wooden Screen Doors — Dozens of innovative styles ranging from the classic design to highly ornamental. Catalog, \$3.25. Oregon Wooden Screen Door.

194. Specialty Wood Windows — Palladians, straight, and fan transoms. Single-, double-, or triple-glazed. Brochure, \$3.25. Woodstone Company.

410. Colonial Woodwork — Finely detailed Colonial doors, windows, shutters, wainscot, and wall paneling. Catalog, \$2.25. Maurer & Shepherd Joiners.

455. Wood Entrances — Traditional doors with bull's-eye glass, side-lights. Catalog, \$2.25. Lamson-Taylor Custom Doors.

622. Window Spring Counterbalances — The alternative system to window weights and pulleys. For double-hung windows. Free literature. Pullman Mfg. Corp.

Finishes & Tools

31. Rotted Wood Restoration — 2-part epoxy system restores rotted wood. Repairs can be sawn, drilled, sanded, and painted. Free brochure. Abatron.

439. Molder-Planer — Reproduce railings, sashes, crowns, rails, window and door stops, and curved molding with chatter free finishes. Free information kit. Williams & Hussey.

539. Refinishing Products — Manufacturer of paint strippers, clear finishes, lacquers, sanding sealers, caulking compounds, linseed oil putty, glazing compounds. Free information. Sterling-Clark-Lurton, Corp.

569. Structural Epoxy Cement — Patches and resurfaces concrete, fills cracks, replaces missing concrete. Structural crack-injection resin restores monolithic integrity to cracked structures. Free brochure. Abatron, Inc.

592. Specialty Paints — Calcimine, dry pigments, decorative paint brushes and tools for the faux finish market. Catalog, \$1.25. Johnson Paint Company.

595. Rock-Hard Putty — Ideal for repairing walls, woodwork, and plaster. It can be sawed, chiseled, polished, colored, and molded. Free literature. Donald Durham Company.

611. Paint Shaver — Strips paint from shingles and clapboards. The dust collector allows encapsulation of debris for retrieval. Free literature. American-International Tool Ind., Inc.

615. Dust-Free Sanding — Available with the Random Orbit sander, half-sheet finish

sanders, rotary sanders, and the triangular sander. Free brochure. Fein Power Tools Inc.

646. Historic Paints — Interior/exterior Victorian colors & Authentic Colors of Historic Philadelphia. Catalog \$2.25. Finnaren & Haley Inc.

668. Historic Paints — Quality interior & exterior paints, stains, and clear coatings. Free literature. Benjamin Moore Paints.

672. Old Fashioned Appliances — Victorian cook stoves & gas refrigerators, slater's & blacksmith's tools. Catalog \$2.25. Lehman Hardware.

673. Industrial Power Tools — High-Performance, industrial power tools & accessories. Free literature. DeWalt Industrial Tool Company.

674. Victorian Paint Colors — Interior and exterior paints. Line includes 70 hues representing the Cape May Victorian Color presentation. Free literature. Fuller-O'Brien Paints.

Furnishings

221. Restored Antique Fans — Restoring and selling of antique fans and parts. Large changing inventory. Detailed brochure, \$2.25. The Fan Man.

353. Radiator Enclosures — The durability of steel with baked enamel finish in decorator colors. Keeps drapes, walls, and ceilings clean. Free catalog. ARSCO Manufacturing.

593. Cotton Shower Curtain — Suppliers of Victorian-style, tightly woven 100% cotton shower curtains. Duct gets wet, but water stays in the tub. Catalog, \$1.25. N.O.P.E.

640. Brass Beds — Many Victorian styles. Repair and restoration of antique beds, custom work, bar rails. Catalog, \$6.25. Investment Antiques & Collectibles.

Lighting Fixtures

4. Victorian Lighting Fixtures — Authentic reproduction electric and gas chandeliers and wall brackets. Catalog, \$5.25. Victorian Lighting Works.

10. Craftsman Lighting — Reproduction craftsman chandeliers and sconces. Fixtures in solid brass or cast iron. Free catalog. Rejuvenation Lamp & Fixture Co.

11. Victorian & Turn of Century Lighting — Reproduction of unusual styles. New large color catalog includes sconces, fixtures & glass shades, \$5.25. Roy Electric Co.

219. Lighting Reproductions — With authenticity on any scale. Brass, bronze, and aluminum to complement residences or commercial areas. Catalog, \$2.25. Art Directions.

334. Chandeliers & Sconces — Original designs of all-crystal, using genuine Strass. Solid brass and venetian crystal reproductions of Victorian gas styles (wired). Catalog, \$3.75. King's Chandelier Company.

400. Lighting Fixtures — Architectural ornaments and antiques dating from 1880 through 1930. Stock reproduction iron spiral staircases. Free brochure. Urban Archaeology.

560. Early-American Lighting — Handmade wall sconces, chandeliers, copper lanterns, and hall fixtures. Catalog, \$2.25. Gates Moore Lighting.

Metalwork

30. Historic Markers — Manufacturers of plaques for National Register, American Buildings Survey, and custom work. Free catalog. Smith-Cornell.

55. Custom-Made Plaques — Historic markers for indoor or outdoor use. Many dimensions and styles available. Free brochure. Erie Landmark.

122. Ornamental Iron Fencing — Matching of old fences is available using authentic Victorian patterns and castings. Catalog, \$2.25. Stewart Iron Works.

571. Traditional Wrought Ironwork — Specialists in Colonial period lighting. Museum-quality reproductions. Custom designs. 38-page, Full-line catalog, \$4.25. Iron Apple Forge.

659. Grilles & Registers — Elegant cast brass and traditional cast iron decorative grilles & registers. Color catalog \$1.25. Reggio Register Company.

671. Ornamental Metal Components & Accessories — Sold a component parts to metalworking who fabricate, assemble & finish. Catalog of preplanning & design purposes, \$10.25. Lawler Machine & Foundry Co.

Millwork & Ornament

13. Victorian Gingerbread — Authentic Victorian millwork for interior and exterior: porch posts, corner fans, balusters, brackets, corbels, headers, gazebos, and more. 50-page catalog, \$2.00. Vintage Wood Works.

44. Victorian Millwork — 19th-century designs in solid oak and poplar: fretwork, brackets, corbels, grilles, turnings, and gingerbread. Color catalog, \$4.75. Cumberland Woodcraft.

101. Shutters & Blinds — Colonial wooden blinds, movable louver, and raised-panel shutters. All custom-made to specifications. Pine or cedar, painted or stained to match any color. Free brochure. Devenco Louver Products.

294. Plaster Ornament — Ornaments of fiber-reinforced plaster. They do restoration work and can reproduce existing pieces if a good example is supplied. Complete catalog of 1500 items, \$15.25. Fischer & Jirouch.

518. Custom Turnings — Newel posts, porch posts, column bases, fluting, spiral rope twist,

PRODUCTS NETWORK

etc. Custom orders. Catalog, \$2.75. Custom Wood Turnings.

651. Custom Millwork — A prime source serving architects, designers, builders, & home owners nationwide. Custom specialties include spiral stairs, doors, bookcases & panel work. Catalog, \$5.25. American Custom Millwork, Inc.

667. Custom Shutters — Exterior & interior louvered or paneled shutters. Louvered doors, room dividers & vents are also available with a complete line of shutter hardware. \$5.25 brochure. Beech River Mill.

Plumbing & Hardware

159. Custom Brasswork — Featuring lighting, hardware, railings, and more. Custom fabrication, and brass and copper antiques. Brochure \$1.25. Conant Custom Brass.

269. Bathroom Fixtures — The complete Victorian bathroom. Clawfoot tubs, free-standing vitreous china pedestal sinks, pull-chain toilets, Chicago faucets, towel bars, etc. Catalog, \$3.25. Sunrise Specialty.

302. Restoration Hardware — Over 1000 different brass items for houses and furniture. Plumbing, lighting, wall and ceiling coverings, tin ceilings, and more. Wholesale/Retail. Catalog and 1-year mailings, \$5.50. Hardware Plus.

303. Fancy Plumbing Fixtures — Hard-to-find fixtures, pedestal lavatories, washstands, drop-in-basins. Plumbing hardware and accessories, fireplace mantels, lighting, and much more. Catalog, \$5.00. Ole Fashion Things.

309. Reproduction Brass Showerhead — A unique 12-inch showerhead which generates thousands of waterdrops to cover the entire body in a gentle rain. Treat yourself to a luxurious shower. Free brochure. JB Products.

397. Hard-To-Find Hardware — Suppliers of scarce decorative hardware for doors, windows, furniture, and cabinets since 1916. Knobs, hinges, pulls, and fasteners available. All periods from 16th century through the 1930s. 227-page catalog, \$6.75. Crown City Hardware.

538. Fixtures & Accessories — Bathroom fixtures and accessories such as door, window, and cabinet hardware. Lighting fixtures also. Catalog, \$5.25. Renovator's Supply.

676. Antique Reproduction Hardware — Hardware for the home from the Victorian era, including door hardware, window sashes and latches and pulls for cabinets or furniture & original porcelain doorknobs. Catalog, \$3.25. Old World Hardware.

Restoration Supplies & Services

5. Pigeon Control — Get rid of pigeons and other birds with inconspicuous stainless steel needles that eliminate roosting places without harming your building. Free brochure. Nixalite of America.

23. Chimney Flue Liner — Poured-in-place, 2-liner system. No mess, one day process. First liner strengthens and insulates; second liner seals and protects. UL Listed. Nationwide Free catalog. Ahren's Chimney Technique.

35. Plaster Washers — These inexpensive washers can resecure loose ceilings and walls. Starter packet of 3 doz. washers with instructions, \$4.75. Charles Street Supply.

113. Chimney Liner — System seals, relines, and rebuilds chimneys from inside out with poured refractory materials. Especially effective for chimneys with bends and offsets. Free brochure. National Supafu Systems.

312. Chimney Sweeps — Maintenance, repair and restoration services. Cleaning, internal video inspections, dampers, caps, stainless steel and Ahren "cast-in-place" linings. Free literature. Certified Chimney Contractors Inc.

384. Tub & Sink Refinishing — Porcelain refinishing for antique tubs, sinks, and ceramic tile. Bring the item into the shop, or they will work in your home. Also converts bathtubs into whirlpools. Free brochure. Dura Glaze.

461. Preservation Services — Services include building inspections, condition assessments, maintenance and preservation plans

and training, maintenance systems, and epoxy-stabilization consulting. Free brochure. Conservation Services.

565. Chimney Liners — Lifetime warranted, flexible chimney relining pipe. UL listed, safe in real-world applications. Constructed of 4 interlocked layers of the finest certified 304-stainless steel. Free brochure. HomeSaver Chimney Liners.

585. Building Repair Products — Manufacturers of interior and exterior priming, patching, and sealing products. Free literature. Tuff-Kote Company, Inc.

369. Masonry Book Catalog — Masonry Marketplace Book Catalog. Titles include: Victorian Brick & Terra-Cotta Architecture, Respectful Rehabilitation, Practical Building Conservation, and many more. Free literature. The Aberdeen Group.

645. Metal Item Restoration — Stripping, plating, polishing & protecting all metal items in the home. Free literature. Strassen Plating.

664. Solvents, Paint Removers & Paint Thinners — A wide variety of paint strippers to choose the product & features best for your job. Free booklet. Klean Strip.

LITERATURE REQUEST FORM

Circle the numbers of the items you want, and enclose \$3 for processing. We'll forward your request to the appropriate companies. They will mail the literature directly to you...which should arrive 30 to 60 days from receipt of your request. Price of literature, if any, follows the number. Your check, including the \$3 processing fee should be made out to Old-House Journal.

1. Free	55. Free	309. Free	518. \$2.75	639. Free
2. \$5.25	62. \$12.25	312. Free	527. Free	640. \$6.25
4. \$5.25	73. Free	334. \$3.75	538. \$5.25	645. Free
5. Free	101. Free	353. Free	539. Free	646. \$2.25
9. Free	113. Free	381. Free	554. \$3.25	651. \$5.25
10. Free	122. \$2.25	384. Free	560. \$2.25	654. Free
11. \$5.25	125. Free	387. Free	561. \$5.25	659. \$1.25
13. \$2.00	128. \$3.25	392. Free	565. Free	663. Free
16. \$2.25	159. \$1.25	397. \$6.75	569. Free	664. Free
20. \$1.25	194. \$3.25	400. Free	571. \$4.25	665. \$15.25
23. Free	212. 75¢	401. \$3.00	580. Free	667. \$5.25
26. \$1.25	215. Free	410. \$2.25	585. Free	668. Free
27. \$10.25	219. \$2.25	414. Free	592. \$1.25	669. Free
30. Free	221. \$2.25	438. Free	593. \$1.25	670. Free
31. Free	242. \$3.25	439. Free	595. Free	671. \$10.25
32. \$2.25	245. \$3.25	455. \$2.25	603. \$6.25	672. \$2.25
35. \$4.75	269. \$3.25	461. Free	611. Free	673. Free
42. Free	284. Free	488. Free	615. Free	674. Free
44. \$4.75	294. \$15.25	492. \$10.25	617. Free	675. Free
47. \$1.25	302. \$5.50	493. Free	622. Free	676. \$3.25
53. \$3.25	303. \$5.00	517. \$1.25	631. \$15.25	

Name _____ Total \$ _____
 Company _____ Postage & _____
 Address _____ Handling \$ 3.00
 City _____ St _____ Zip _____ Enclosed \$ _____
 Phone _____

Mail to: Old-House Journal, Products Network, 2 Main Street, Gloucester, MA 01930
 This card must be mailed before September 30, 1993

9306

ADVERTISERS' INDEX

PRODUCTS NETWORK NO.

PAGE NO.

20	AA Abbingdon Affiliates.....	85
31	Abatron, Inc.....	21
569	Abatron, Inc.....	23
639	Aberdeen Group.....	19
	Addison Hardware Company.....	25
23	Ahren's Chimney Technique.....	81
517	Albany Woodworks.....	81
651	American Custom Millwork.....	33
	American Heritage Shutters.....	91
611	American Intl. Tool Industries.....	77
	Anthony Wood Products.....	79
353	ARSCO Manufacturing.....	81
219	Art Directions.....	69
	Bathroom Machineries.....	91
667	Beech River Mill Corp.....	84
73	Bendheim Glass.....	79
668	Benjamin Moore Paints.....	19
27	Bradbury & Bradbury.....	31
	Brandon Industries.....	93
	The Brickyard.....	89
	Campbellsville Industries.....	91
	Carlisle Restoration Lumber.....	93
312	Certified Chimney Contractors.....	84
242	Chadsworth.....	73
561	Charles Rupert Designs.....	81
35	Charles Street Supply.....	83
	Charmaster Products, Inc.....	93
47	Chelsea Decorative Metal.....	83
	City Visions.....	93
26	Classic Accents.....	33
669	Classic Ceilings.....	16
159	Conant Custom Brass.....	33
665	Connor Building Company.....	79
461	Conservation Services.....	73
42	Country Curtains.....	75
603	Country Designs.....	77
212	Craftsman Lumber.....	89
	Crosswinds Gallery.....	89
	Crown Berger.....	13
397	Crown City Hardware.....	9
670	Crown Corporation.....	18
44	Cumberland Woodcraft.....	77
518	Custom Wood Turnings.....	75
245	Decorator's Supply.....	32
	Denninger Cupolas & Weathervanes.....	85
	Designs In Tile.....	93
101	Devenco Louver Products.....	83
673	DeWalt Ind. Tool.....	Inside Front Cover
595	Donald Durham Company.....	71
384	Dura Glaze.....	26
55	Erie Landmark.....	24
	Eugenia's Place.....	91
	Exterior Color Consultants.....	91

221	The Fan Man.....	83
	Fastenation.....	93
615	Fein Power Tools Inc.....	17
554	Felber Ornamental Plastering.....	73
646	Finneran & Haley.....	75
294	Fischer & Jirouch.....	26
488	Follansbee Steel.....	14
674	Fuller-O'Brien Paints.....	11
560	Gates Moore Lighting.....	83
	Glentec.....	75
387	Granville Manufacturing.....	25
663	Grate Fires Company.....	18
302	Hardware Plus.....	12, 18, 73
	Heartland Appliances.....	91
	Heirloom Reproductions.....	93
617	Hennessy House.....	79
580	Historic Floors Of Oshkosh.....	84
62	Historical Replications.....	31
565	HomeSaver Chimney Liners.....	25
	Horton Brasses.....	93
414	Hydro-Sil Heat Company.....	33
654	Inclinor Company of America.....	85
640	Investment Antiques & Collectibles.....	77
571	Iron Apple Forge.....	87
309	J.B. Products.....	84
631	J.L. Powell & Company Inc.....	27
	John Leeke.....	91
592	Johnson Paint Company.....	27
2	The Joinery Company.....	31
492	The Kennebec Company.....	16
334	King's Chandelier Company.....	85
664	Klean Strip.....	33
	Lampshades of Antique.....	89
455	Lamson-Taylor Custom Doors.....	77
671	Lawler Machine & Foundry.....	35
672	Lehman Hardware.....	71
493	Liberty Cedar.....	87
	Maple Grove Restorations.....	89
	Martha M. House Furniture.....	91
9	Marvin Windows.....	27
410	Maurer & Shepherd Joiners.....	87
215	Midget Louver Company.....	32
16	Midwest Architectural Wood Products.....	71
	Monarch.....	29
593	N.O.P.E.....	81
	National Decks.....	91
113	National Supaflo Products.....	29
5	Nixalite of America.....	71
527	North Fields Restorations.....	17
	Old Fashioned Milk Paint Co.....	85
381	Old Glories.....	79
32	The Old Wagon Factory.....	84
676	Old World Hardware.....	79

303	Ole Fashion Things.....	89
53	Oregon Wooden Screen Door.....	87
	Parks Corporation/Carver Tripp.....	25
	Period Details.....	89
622	Pullman Manufacturing Corp.....	87
659	Reggio Register Company.....	87
10	Rejuvenation.....	Inside Back Cover
538	Renovator's Supply.....	15
11	Roy Electric Company.....	81
1	Schwerd Manufacturing.....	7
	Shutter Depot.....	93
	Shuttercraft.....	89
	Silk Road Trading Company.....	93
30	Smith-Cornell.....	75
	Snelling's Thermo-Vac.....	89
	Southampton Antiques.....	71
675	Specification Chemicals.....	85
	Steptoe & Wife.....	93
539	Sterling-Clark-Lurton Corp.....	77
122	Stewart Iron Works Company.....	73
645	Strassen Plating.....	17
269	Sunrise Specialty.....	5
	Sylvan Brandt.....	35
	Touchstone Woodworks.....	91
	Tremont Nail Company.....	91
585	Tuff-Kote Company.....	29
400	Urban Archeology.....	24
125	Vande Hey Roofing.....	10
4	Victorian Lighting Works.....	35
392	Vintage Pine Company.....	83
13	Vintage Wood Works.....	19
401	Vixen Hill.....	35, 89
128	W.F. Norman Corporation.....	69, 71
438	Ward Clapboard Mill.....	79
284	Whitco/Vincent Whitney.....	85
439	Williams & Hussey.....	84
	The Wood Factory.....	93
194	Woodstone Company.....	29

ADVERTISING SALES OFFICES ADVERTISING OFFICE

2 Main Street
Gloucester, MA 01930
800/356-9313
Becky Bernie
National Sales Manager

MIDWEST SALES OFFICE

Robert R. Henn & Assoc.
20500 Hellenic Drive
Olympia Fields, IL 60461
708/748-1446
Robert Henn, Nancy Bonney

REMUDDLING

[opinion]



Obtuse Addition

WHILE DRIVING THROUGH DENVER, COLORADO, Charles W. Cleworth became acutely aware of a certain obtuse addition and sent in these photos. Recently, an abstract post-Modern facade was superimposed on this rectilinear Foursquare with graphic results.

WIN FAME AND \$50: If you spot a classic example of remuddling, send us clear color slides. We'll award \$50 if your photos are selected. Remuddling Editor, Old-House Journal, 2 Main Street, Gloucester, MA 01930.



Obviously not stylistic parallels, this concrete-sided projection and quadrilateral brick Foursquare just don't add up. Also, outlining the new roof with a tangential band of red copied from the existing window trim only underlines the architectural problem. From its jagged, asymmetrical peaks to its spherical windows, this angular attachment is squarely — or should we say geometrically — a formula for Remuddling.

Remuddling Theorem: An abstract addition (above) plus a Foursquare (below) equals a house architecturally divided.

BRINGING THE PAST INTO THE PRESENT

"I CAN'T STAND A NAKED LIGHT BULB..."

TENNESSEE WILLIAMS



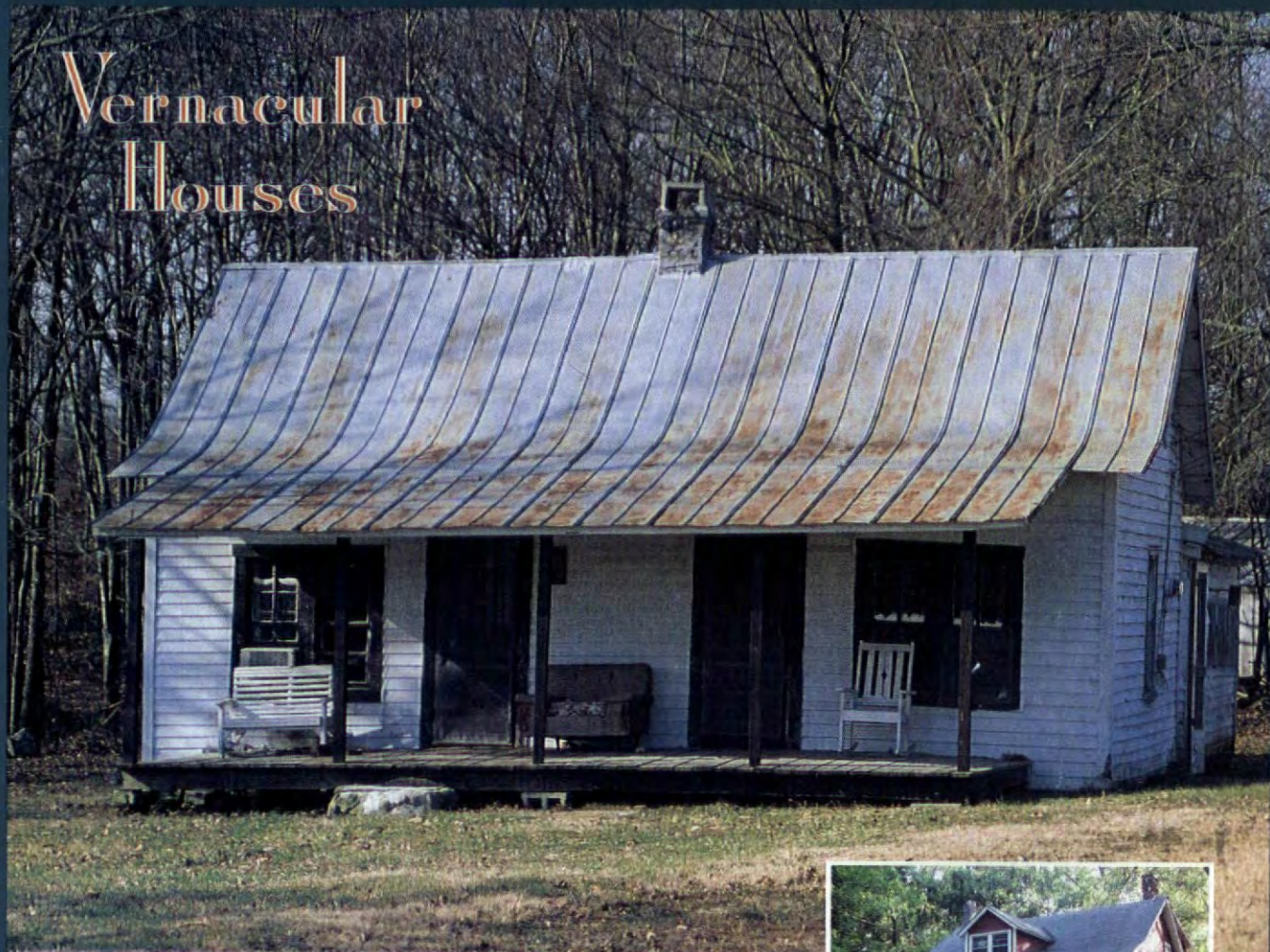
Dress your next project with our fine quality, solid brass reproduction lamps and fixtures. Designed to enhance a



variety of commercial and residential settings. Request our catalog featuring over 200 Craftsman, Victorian and Neoclassic designs.

REJUVENATION LAMP & FIXTURE CO. 1100 S.E. GRAND AVENUE PORTLAND, OREGON 97214 (503) 231-1900

Vernacular Houses



The Cumberland House

A FOLK HOUSE TYPE POPULAR AS HOUSING FOR POOR FARMERS OR LUMBER mill and mine workers, Cumberland houses were built from 1880 to 1940. Found throughout eastern and middle Tennessee, they were named for their prevalence in the Cumberland Plateau region.

Cumberland houses are frame buildings identified by a single-storey symmetrical facade with two front doors and windows, a gable roof, and a porch. A typical plan consists of two rooms that share a common wall. Ell additions for kitchens, bedrooms, and bathrooms are common.

The exact origin of the two front doors is unknown. However, antecedents for Cumberland houses have been traced to the double-pen "dog-trot" and "saddlebag" log houses. Once sawn lumber became available, local builders developed a frame adaptation of these common log building forms, keeping the distinctive double front doors.

Folklore offers several explanations for the second entryway. One tale claims that the extra door was for quick evacuation in case of fire; another has it as a private entrance for newlywed children. Whatever the reasons, Cumberland houses are tangible evidence of the lifestyles of early yeoman farmers and the working class in Tennessee.

— LEO J. GOODSELL
Nashville, Tenn.



(top) In Estill Springs, Tennessee, this typical Cumberland house is one room deep with a central chimney.

(inset) This c.1920 Cumberland house in Murfreesboro, Tennessee, has an asymmetrical facade with two front doors and only one window.