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# JOURNAL



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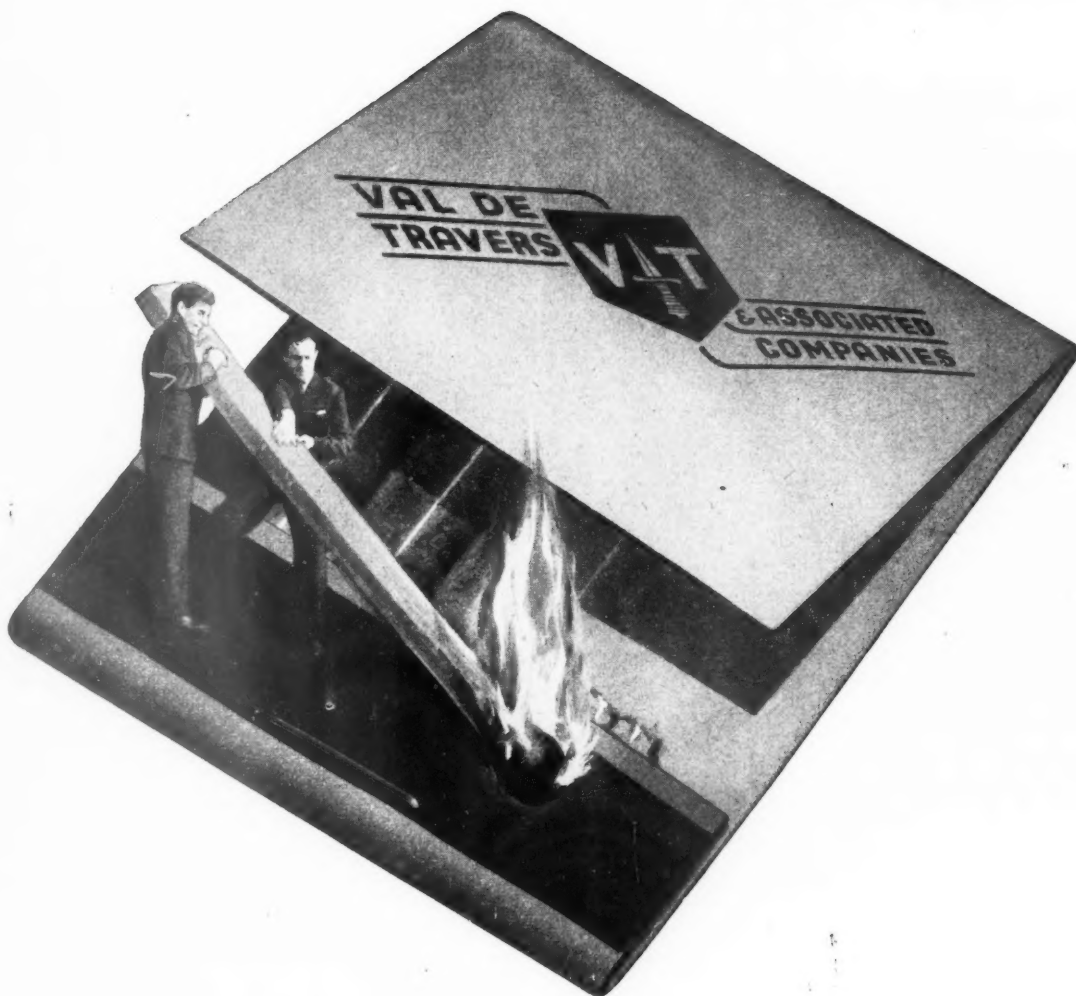




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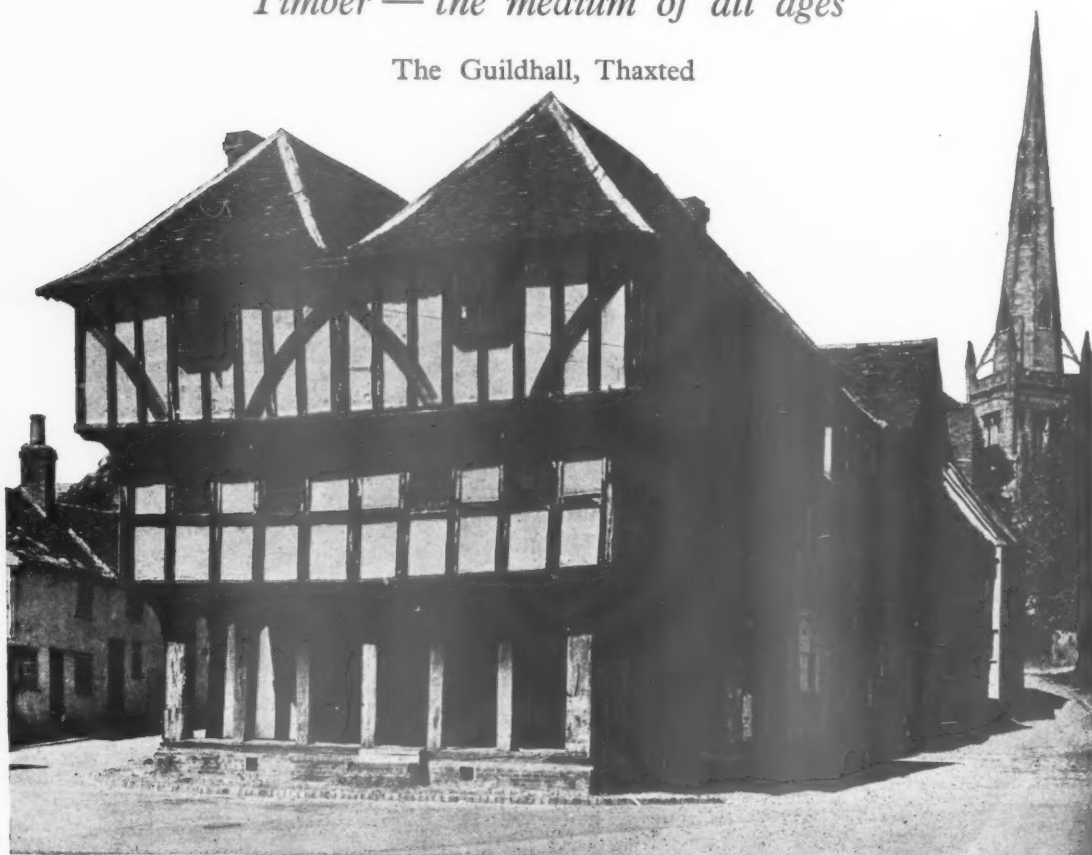
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S.C.P. 3092

## *Timber — the medium of all ages*

The Guildhall, Thaxted



*Photo courtesy: Courier*

The Eastern Counties of England are rich in mediaeval houses; these are the heritage of a former prosperity, when Essex and Suffolk were the centres of the woollen trade. Rural craftsmen, unversed in the use of plans, yet created buildings which blend perfectly with the English scene. They remain unspoiled examples of our domestic architecture and a tribute to the enduring qualities of wood. In these days, despite the variety of building materials in use, wood alone remains indispensable; fortunately, plentiful supplies are once again available.

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PAINT AND WATER PAINT MANUFACTURERS TO THE LATE KING GEORGE VI



The ceiling and walls of this Cinema are in a sprayed plastic texture, finished Deep Peach, with the lighting covers surrounding proscenium in Eau de Nil spattered with Silver. The high dado is in two tones of Brown over-sprayed with Red and Black. Doors are in Signal Red with architraves and skirting in black.

THE WALPAMUR CO LTD · DARWEN & LONDON

W319

# The new **MAIN** GG 222 griller and toaster

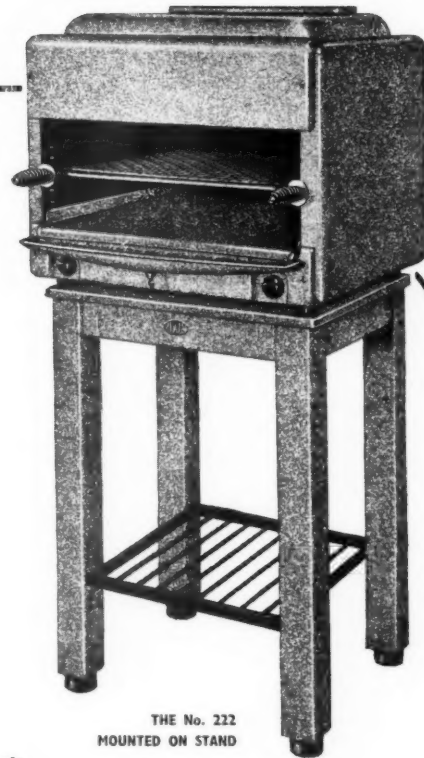
....the fastest and most  
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The GG 222 is heated by an entirely new enclosed flame unit, which heats rapidly and gives fast, even cooking over an area of 350 sq. ins. The gas consumption is automatically reduced by 20% in 20 minutes without affecting the useful heat output. The high thermal efficiency of the unit ensures economy. The grill is fired by silent, non-lighting-back neat gas jets, giving convenience and control.

The griller is strongly constructed of cast iron, with heat-conserving insulation between the outer casing and interior lining.

It is available with or without the stand shown in the illustration. Overall size is 28" wide x 23½" high x 26" deep and the grill opening is 24" wide x 9" high x 19½" deep. The stand is 34" high.

Vitreous enamel finish—available in dapple grey as illustrated or in cream with black interior.



THE No. 222  
MOUNTED ON STAND

## \* Some features of the GG222

Patented high efficiency neat gas unit—non-lighting-back—silent and completely controlled • insulated and air-cooled body—ensuring low surface temperatures • gas supply automatically reduced—economy in gas consumption achieved • cool-type burner control taps • large working area provided • one half of grill can be used if desired • fat runs to collection trough in front • fully vitreous enamelled surfaces

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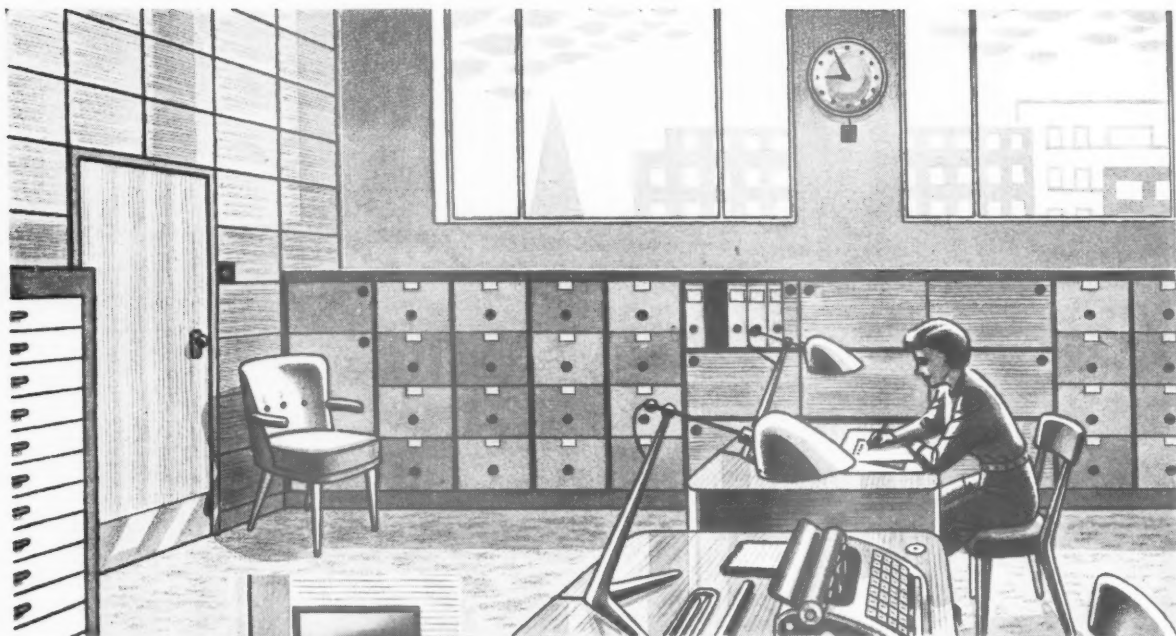
BOILING PANS  
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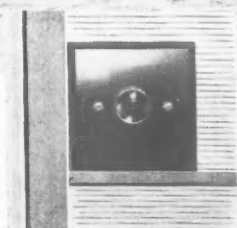
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OP7

## Contemporary ffices



Illustrations are:



4014 3251 Flush 5 amp.  
switch to BS 1299

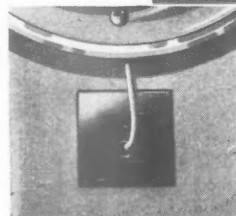
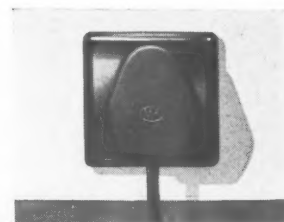
998 Flush Fused  
Connector-box

772 580 Flush 15 amp. Socket-  
outlet with rubberclad plug

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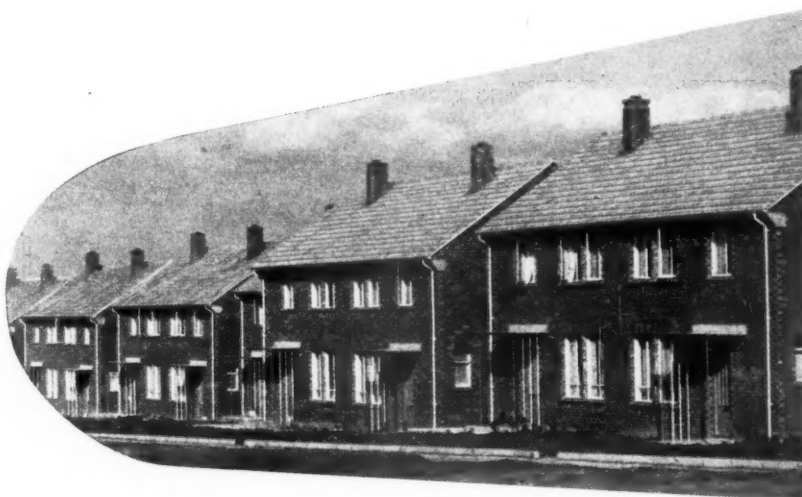
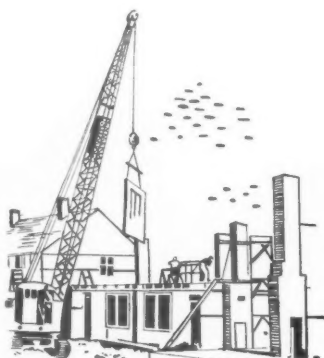
MK 68

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## A NEW APPROACH TO THE HOUSING PROBLEM



There is no doubt that Hawksley S.G.S. Houses are rapidly gaining favour with both architect and local authority. Presenting a conventional appearance internally and externally, they are manufactured almost completely in the factory and save over 50 per cent. of site man hours. The inner shell consists of pre-fabricated cast plaster panels with formwork for the concrete structure attached. The external single brick cladding "tied" to the structure is separated by a 6-inch cavity from the interior panels and roofs are tiled in the normal manner. All other components are of traditional construction. Hawksley S.G.S. Houses are available with 2, 3 or 4 bedrooms (or any combination of these). They may be built in pairs or terraced and stepped if required. Over 1,000 have already been built. If you are not already in possession of full details, kindly let us know.



HAWKSLEY General Purpose buildings are ideally suited for schools, hospitals, offices, workshops, canteens, halls and light industry factories. Built of light alloy materials on the panel system, they may be erected by unskilled labour without special equipment. Roof spans are 24ft., 32ft. and 40ft. Plans are based on a modular length and width of 8ft. Ceiling heights are 8ft., 9ft., 11ft. and 12ft. 6in. Maximum overall length 152ft. without internal supports. Illustrated leaflets giving full details are available.

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## TRIPLE UNIT TYPE 'A'

PATENT No. 567066 · REGD. DES. No. 843342

Comprising

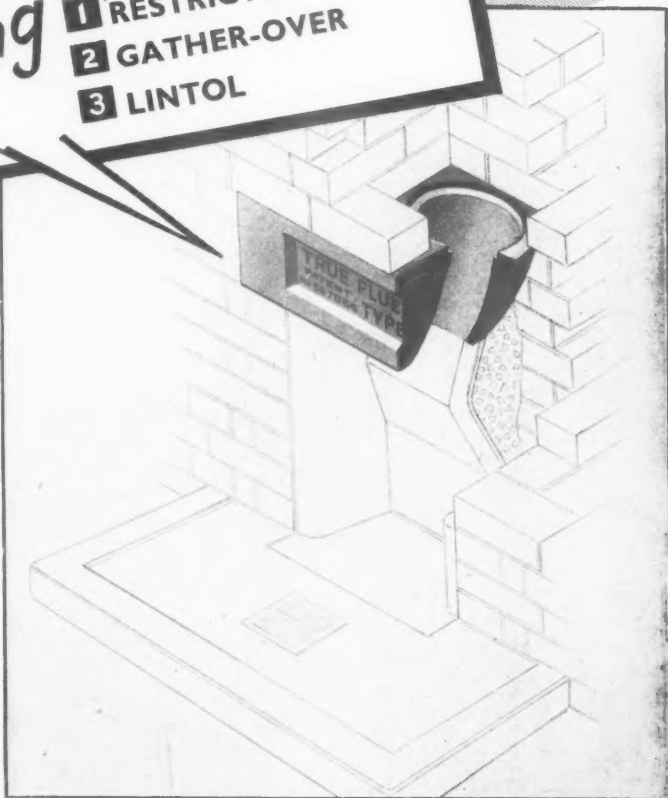
- 1 RESTRICTED THROAT
- 2 GATHER-OVER
- 3 LINTOL

This THREE-FOLD labour saving and efficient device is made of heat resisting refractory concrete and forms a stream-lined connection between the fire and the flue.

**1** The Restricted Throat is scientifically designed to ensure maximum heat retention and economy in fuel.

**2** This unit eliminates the labour involved in forming the Gather-Over in brickwork above the fireplace opening. When placed in position over the fire-back it forms a base for TRUE-FLUE circular rebated linings or for the 9in. x 9in. parged flue as shown.

**3** The Lintol has a weir-shaped front and is of sufficient width to afford adequate seating on jambs with all normal fireplace openings. The face of the Lintol is recessed to provide an insulation space at the back of the fireplace surround.

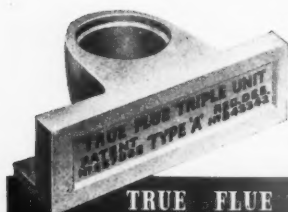


If a smoke shelf is favoured this may be obtained by using the TRUE-FLUE TRIPLE UNIT, Type "U". Special units are available to suit all types of heating appliances and fireplace surrounds.

**FOR MANY YEARS** these TRUE-FLUE TRIPLE UNITS have been increasingly specified by numerous local Authorities and Architects. They were employed in the tests carried out by the Ministry of Fuel and Power on a large range of heating appliances and are also specified by the Ministry of Works, Metropolitan Police, British Railways and London County Council. During the past four years we have supplied approximately 15,000 complete flues to the latter Council alone.

For maximum efficiency specify TRUE-FLUE circular rebated refractory flue linings; 60° and 45° easy bends are also available for immediate delivery.

**REMEMBER**—we are specialists in all matters relating to flues and can give you the benefit of nearly half a century's experience. We shall be pleased to design your stack in TRUE-FLUE construction (with or without convector heating), free of all cost to yourselves.



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THE ADHESIVE COMPOUND SPECIALLY PRODUCED FOR THE FIXING OF CERAMIC TILES

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How many times have we all heard that remark! **Here is the answer at last.**

"RICHAFIX" enables the tiler to fix his glazed tiles directly onto the flat wall without hacking off or rendering—whatever the composition of the wall may be.

- 1** Spread the "RICHAFIX" on the wall.
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Please ask for booklet A.J.R.1 which explains the subject fully and gives detailed fixing instructions.

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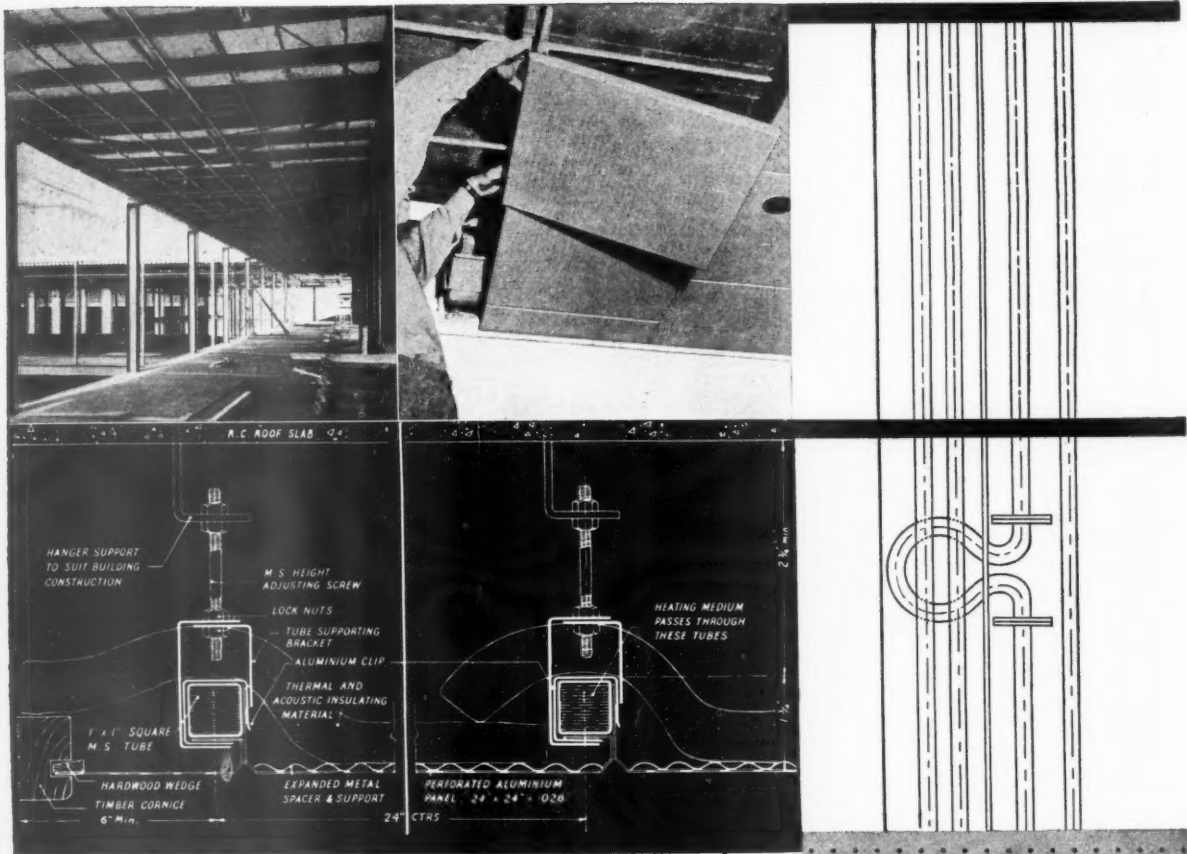


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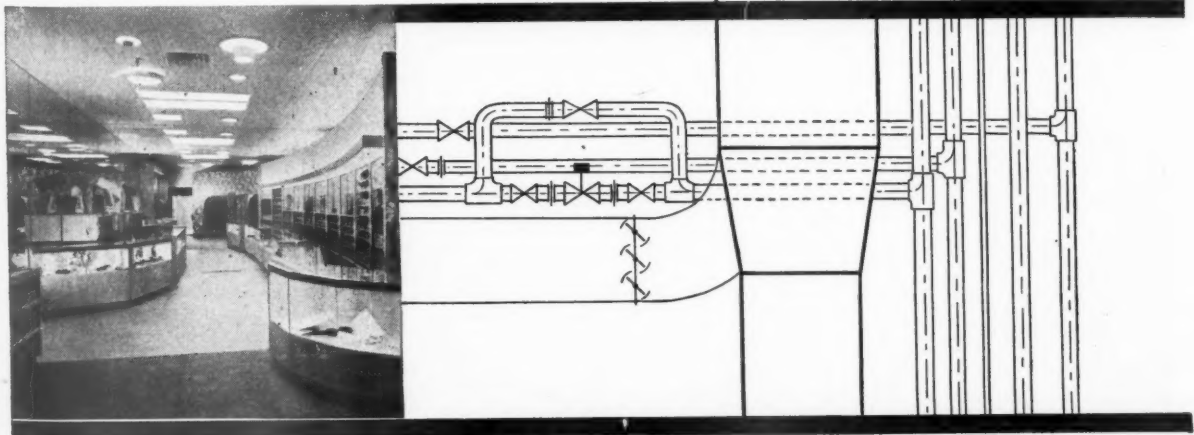
## FRENGER—three ceilings in one

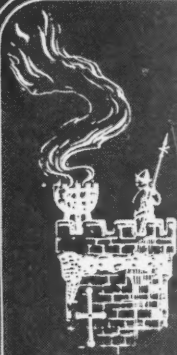
Here is a ceiling, that is *first*: a radiant panel heating unit with an immediate response to changes in temperature; *second*: a most efficient sound absorbing surface; and *third*: a suspended, removable ceiling that serves to conceal a mass of ugly pipes, wiring, ducts and other services while leaving them completely accessible.

The ceiling is pre-fabricated and made up of a grid piping system supporting perforated, square, metal panels of aluminium and blanketed by insulating material. A Frenger can be installed in existing buildings with very little structural alteration and is easily adapted to fit any shape of room or lighting and ventilation system.

Technical leaflet with full data from.—

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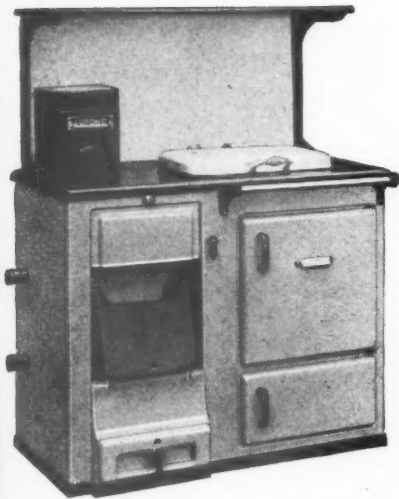
SEE OUR EXHIBIT AT THE BUILDING CENTRE, 26, STORE STREET, LONDON, W.C.1.





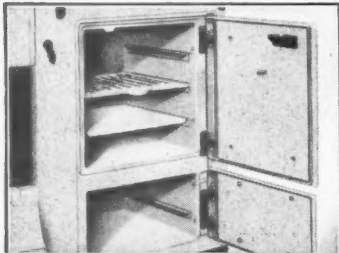




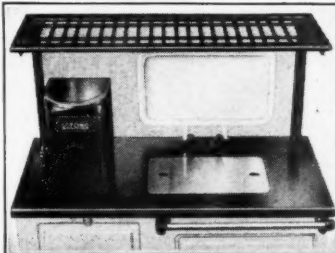


Increase your sales  
with this ***NEW***  
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fuel appliance  
*The*  
**SOFONO**

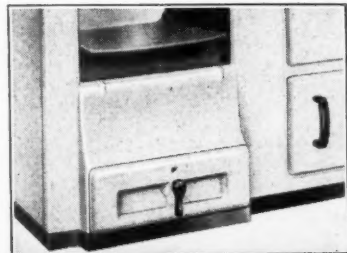
OPEN FIRE COOKER AND WATER HEATER



The capacious oven with adjustable shelves and hot cupboard.



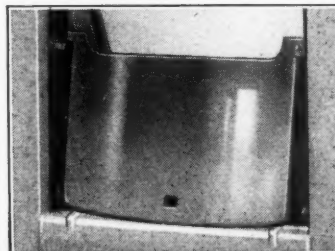
The hob, hot plate, conservor cover and front towel rail.



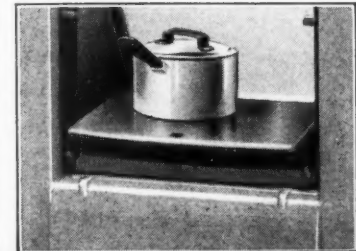
The Sofono Fire, showing the air control lever and removable front.



The Trivet in its normal position for keeping food etc. warm.



The Trivet used as a safety closure cover.



The Trivet as an extra boiling hot plate.

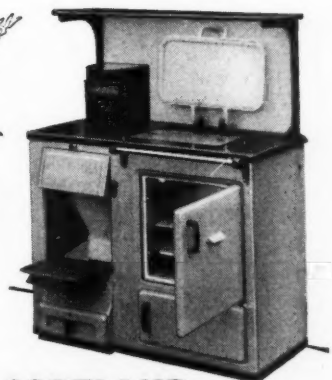
The makers of the famous Sofono Fire have again designed a sure selling winner. It will pay you to stock this appliance now against the enquiries that are sure to come.

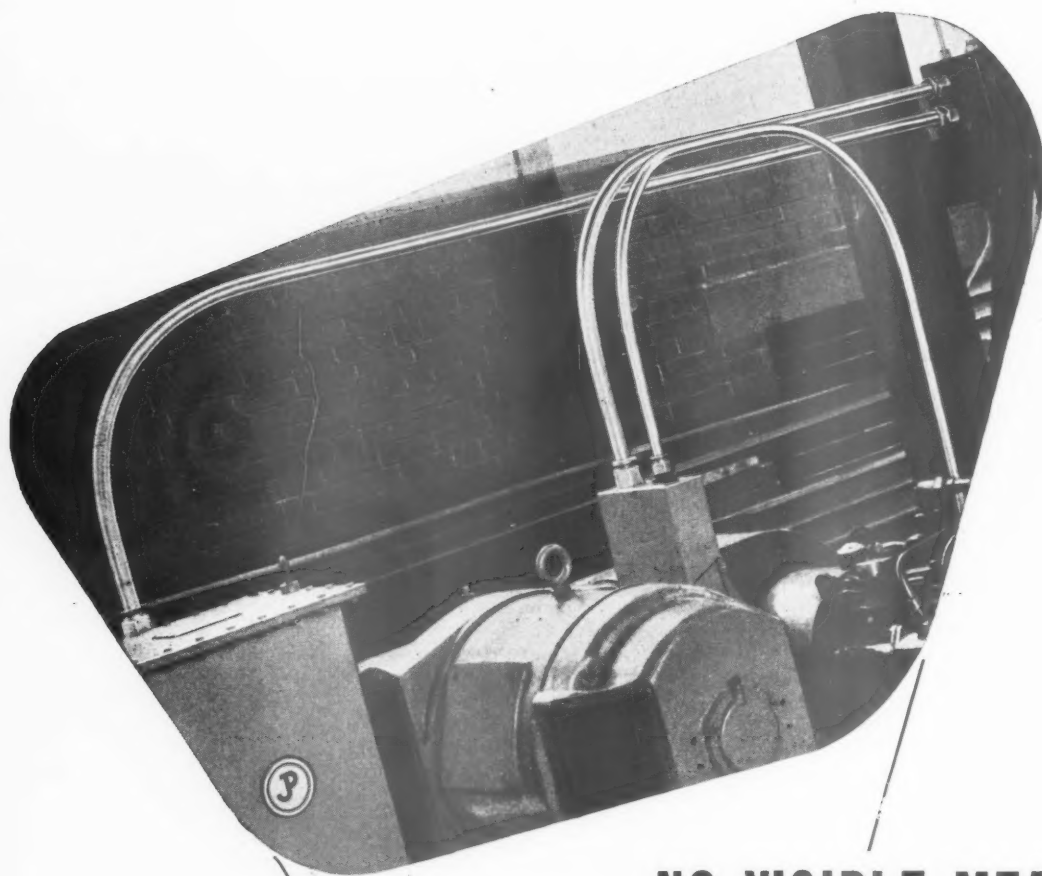
The Sofono Cooker has many new features not the least of which is the oven and hot cupboard arrangement, and the triple purpose trivet. An adaptation of the Sofono fire provides the heat for all cooking and water heating and gives a fully open fire for the kitchen living room.

**A few Details.** The back boiler is copper or wrought welded (bowed barbed) and gives an output of 5,000 B.Th.U's/hour with the damper closed and 12,000 B.Th.U's/hour when open. Average output per 24 hours is 100 gallons. The hotplate will boil 2 pints of water in 5 mins. during normal working period, and the fire closure lid after overnight burning will boil 2 pints in 12 mins. The convector heated oven will reach baking temperature (420 F.) to 520 F. comfortably. Further details and dimensions on request. This appliance is approved by the Ministry of Fuel & Power.



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*. . . AND NO INVISIBLE MEANS EITHER!* The strength and lightness of an aluminium sheath frequently eliminates the need for supporting structures—one more financial advantage of using

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British Patent Nos. 627815 & 627793



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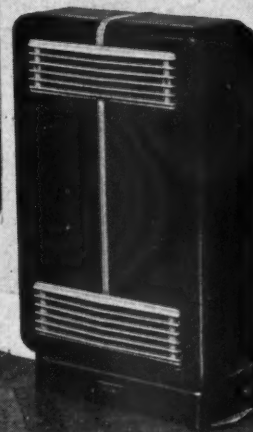
# A handsome gas radiator...



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Dimensions:	Height	..	30in.
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	Depth	..	6 $\frac{3}{4}$ in.
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*Obtainable from Gas Undertakings and through the usual wholesale channels*



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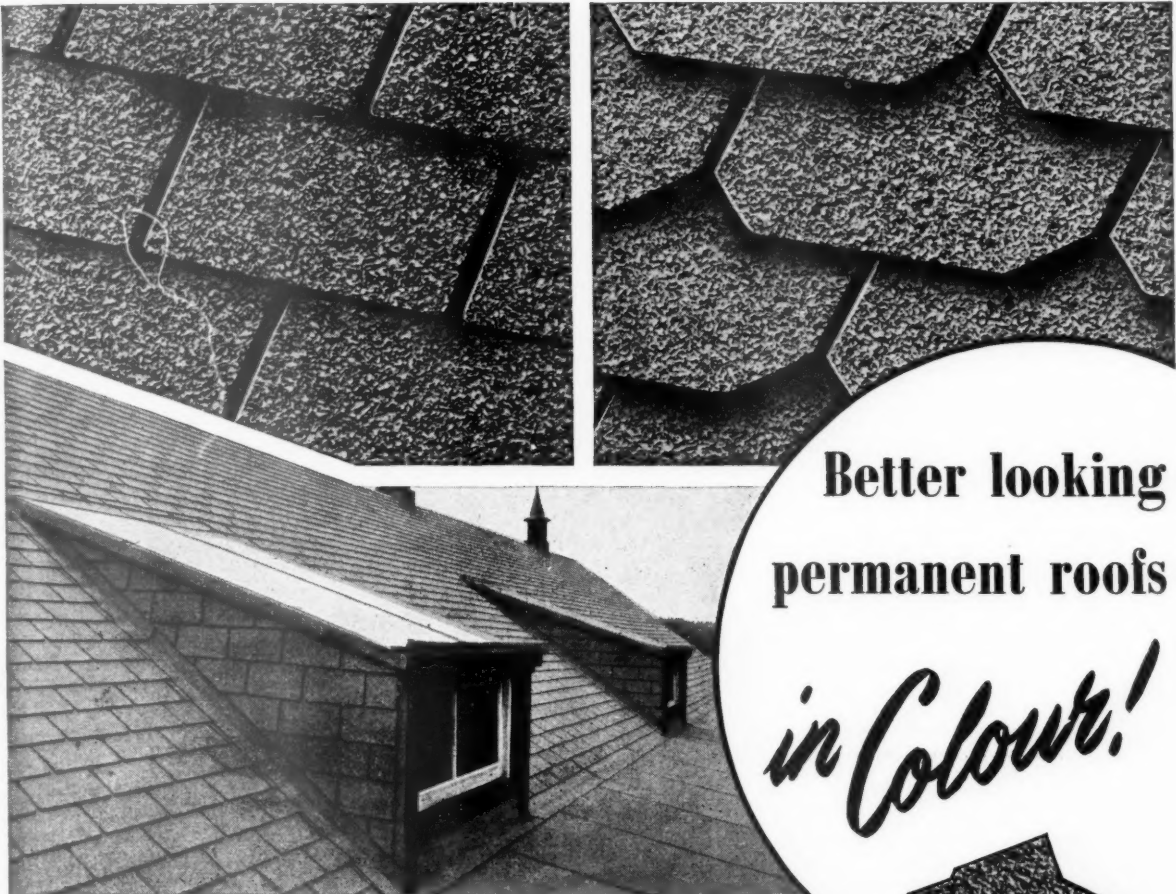
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*Consultant Engineer, Dr. H. Gotfeldt, M.I. Construct. E., M. Inst. W.*

*Other contracts illustrated*

*Hull City Architect, Mr. Andrew Rankine, O.B.E., A.R.I.B.A.*



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*Write for samples and illustrated information leaflets, and please indicate the uses in which you are interested.*

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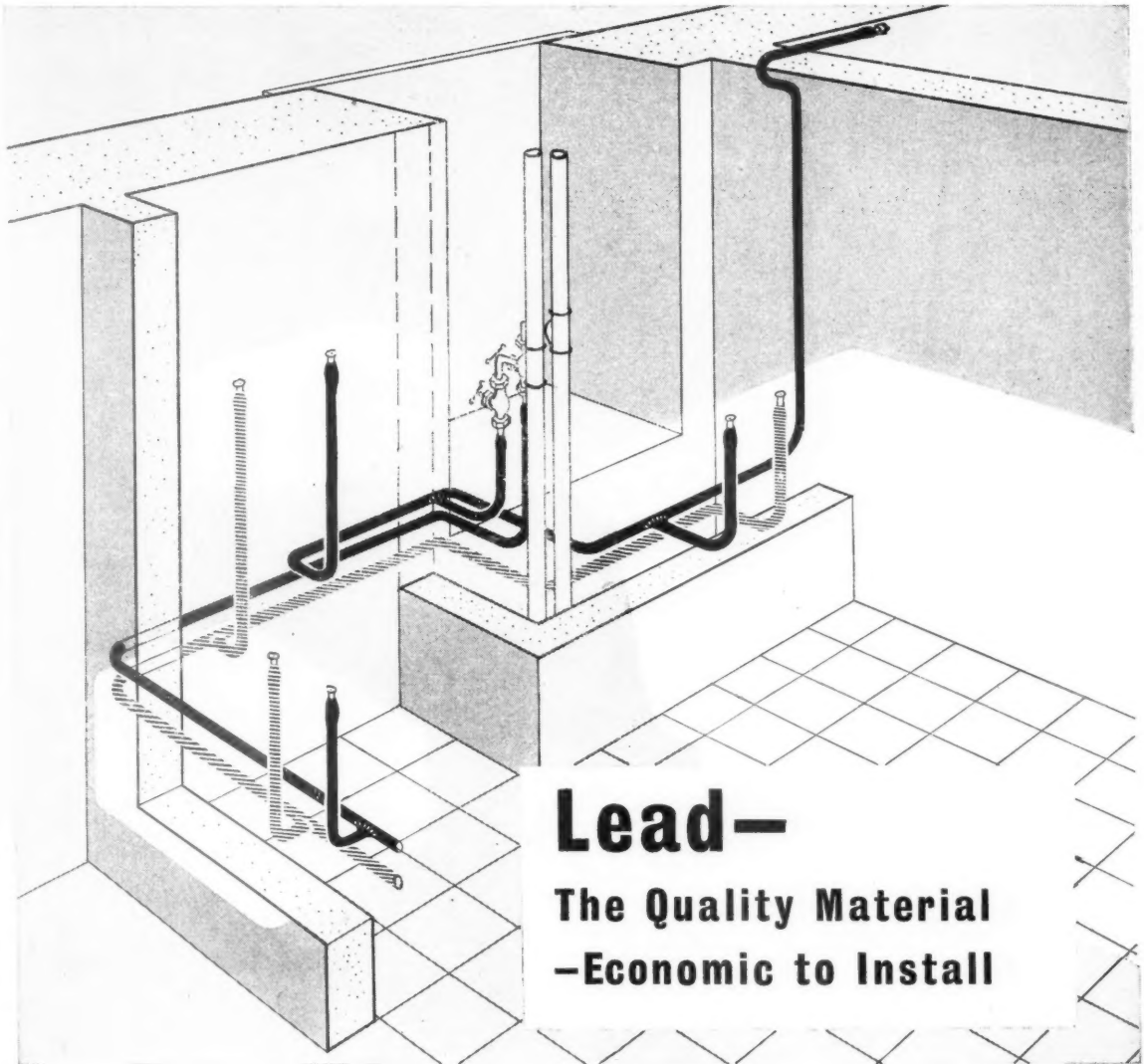
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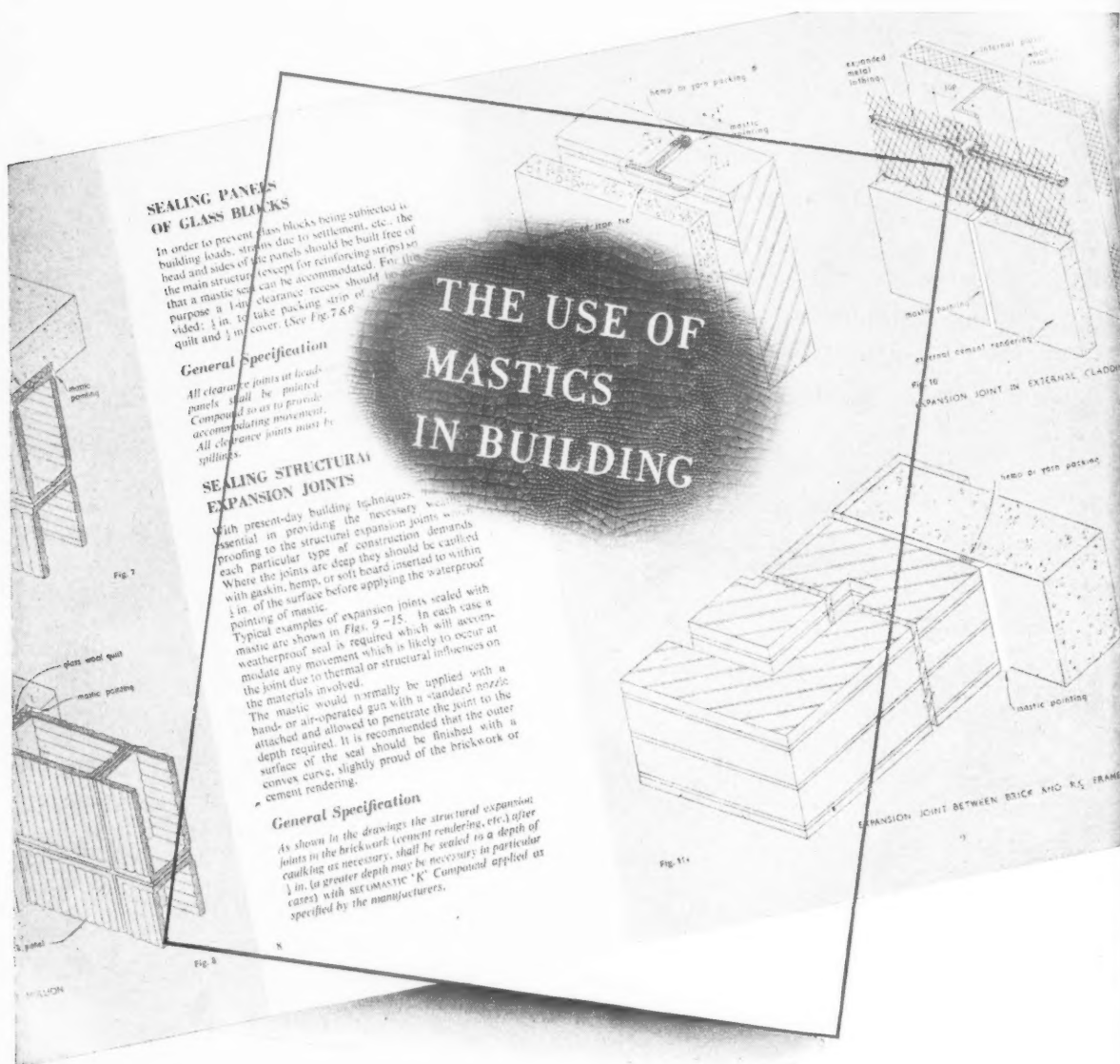
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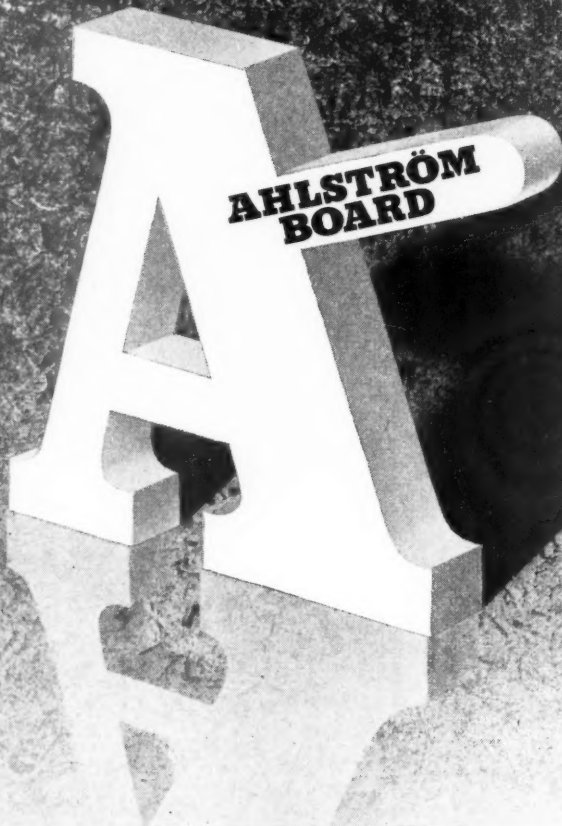
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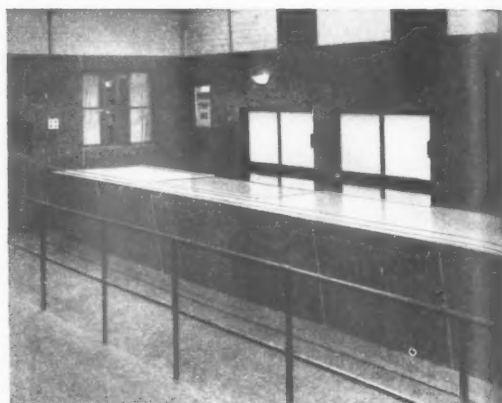
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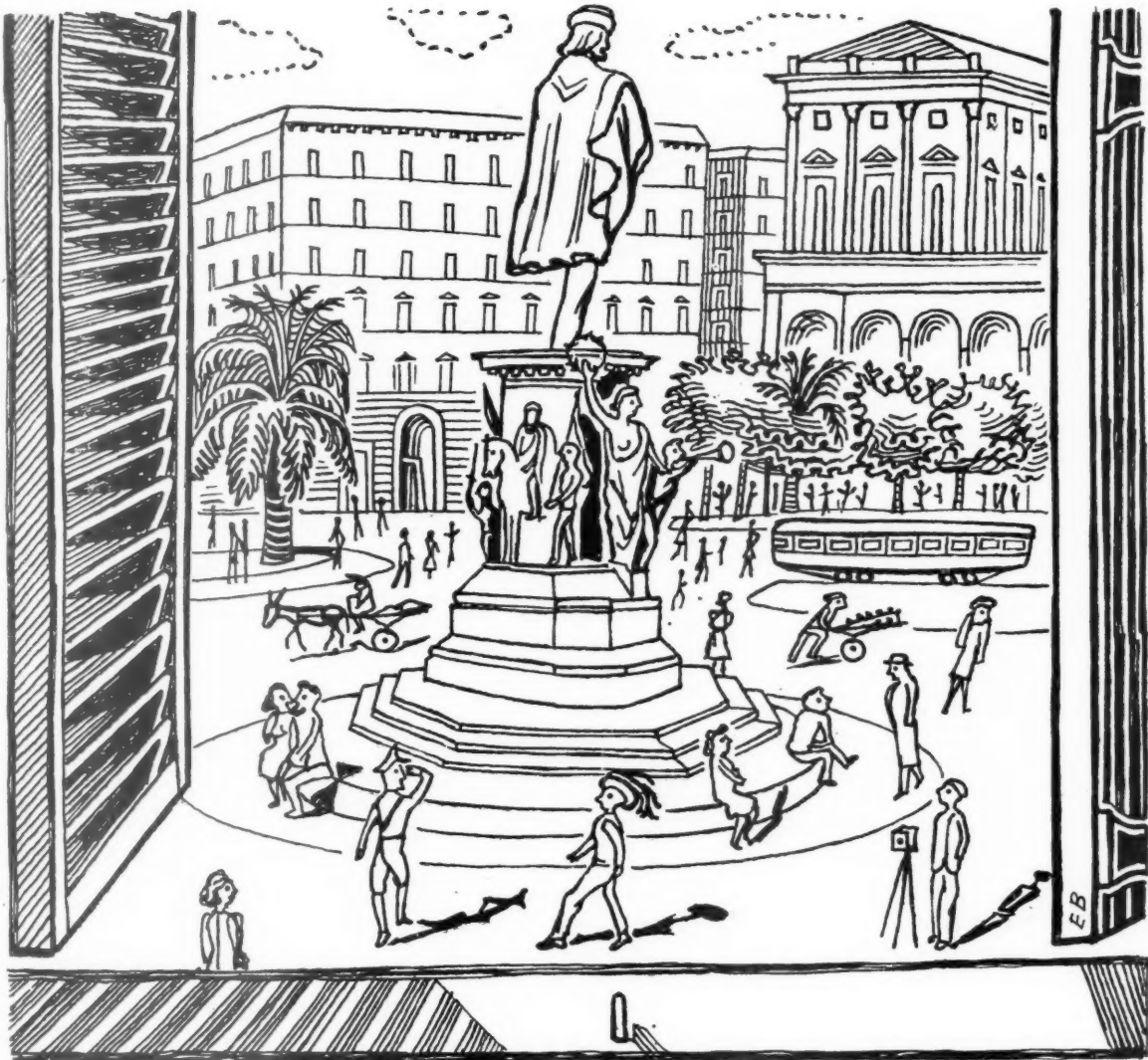
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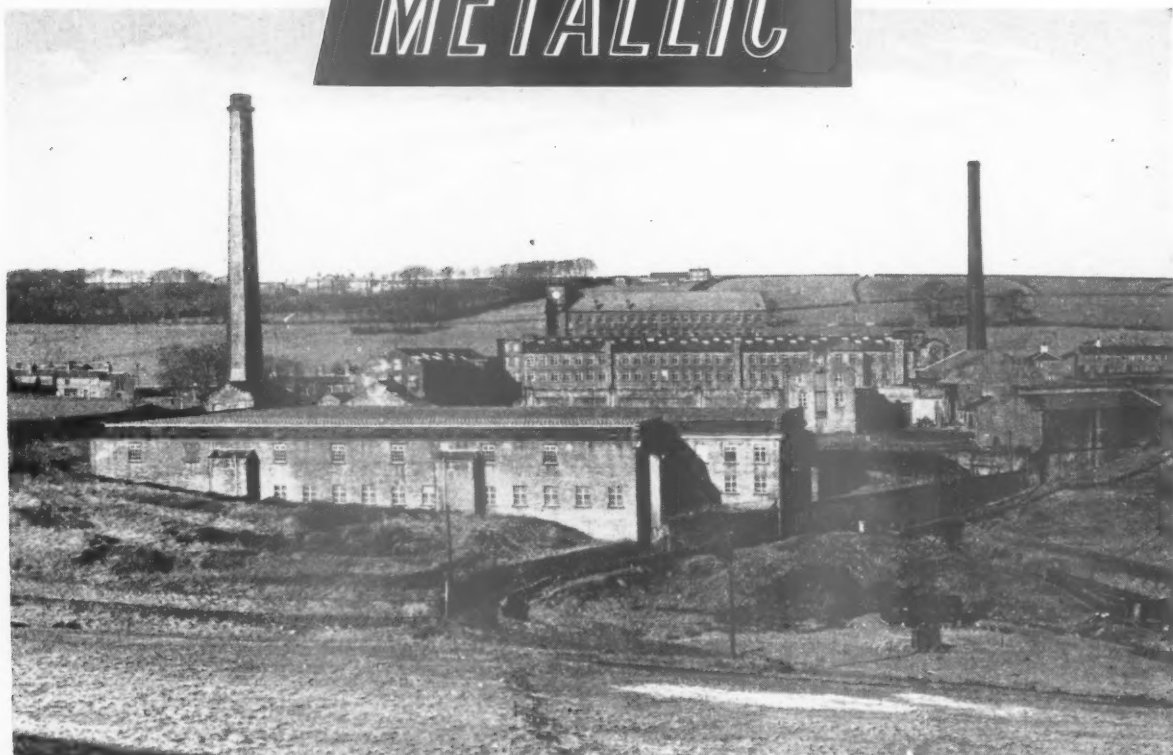
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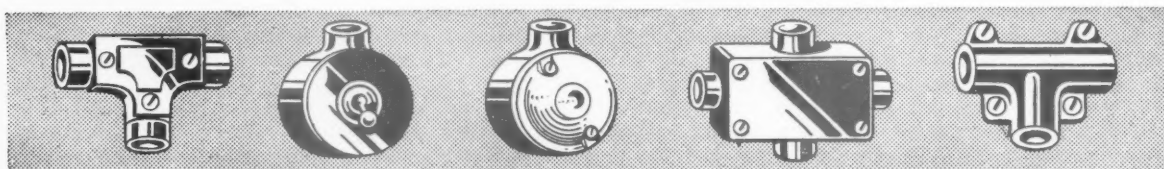


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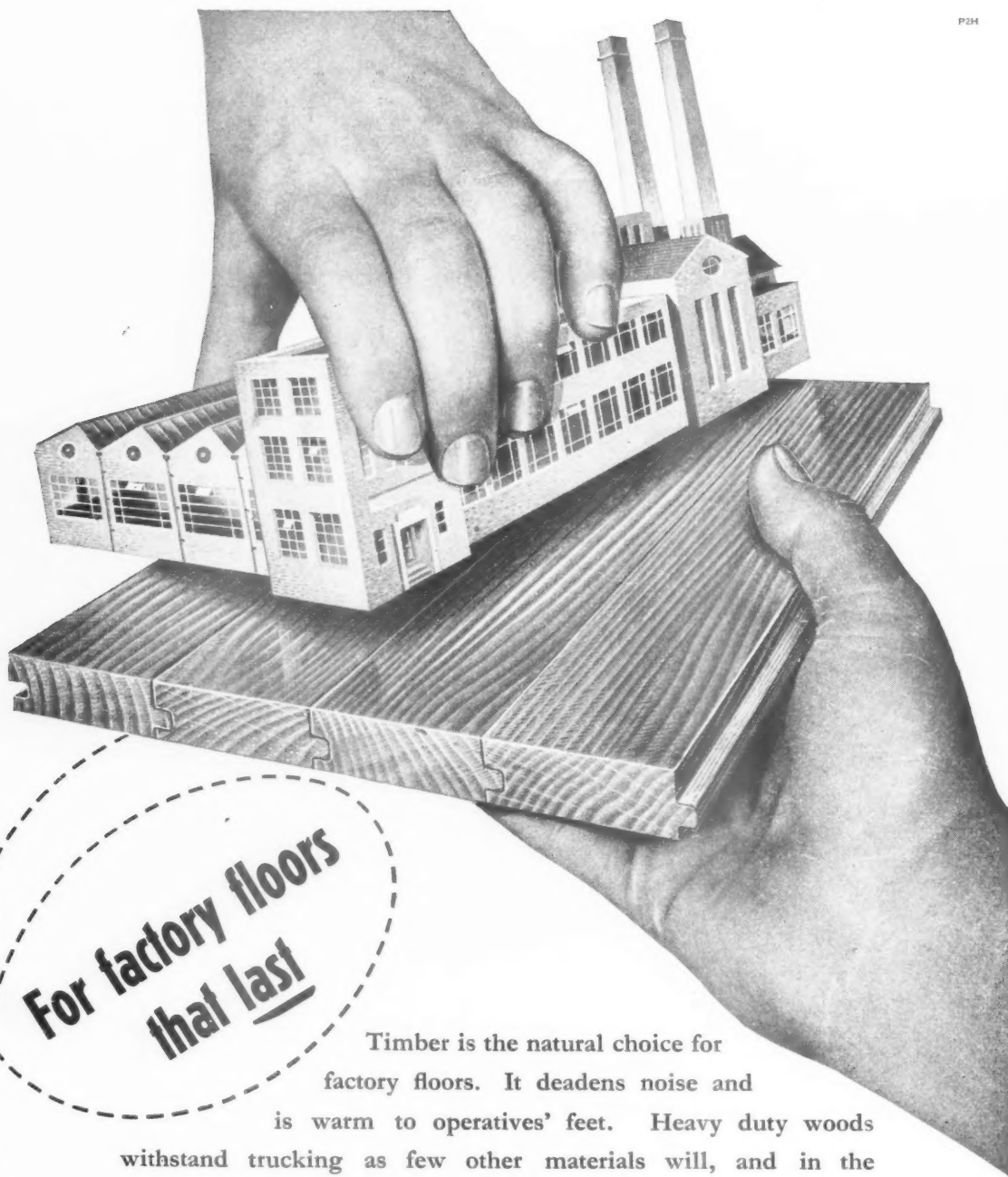
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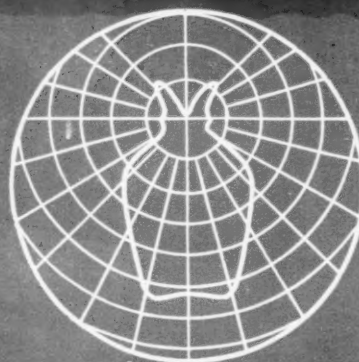


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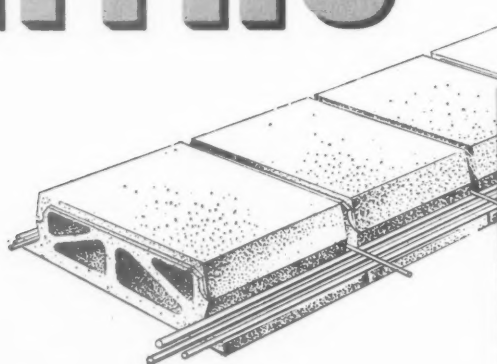
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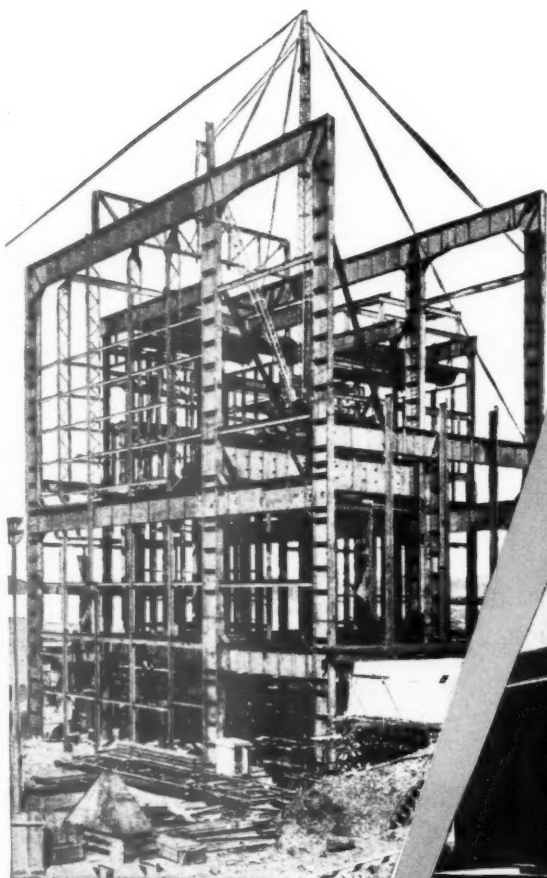
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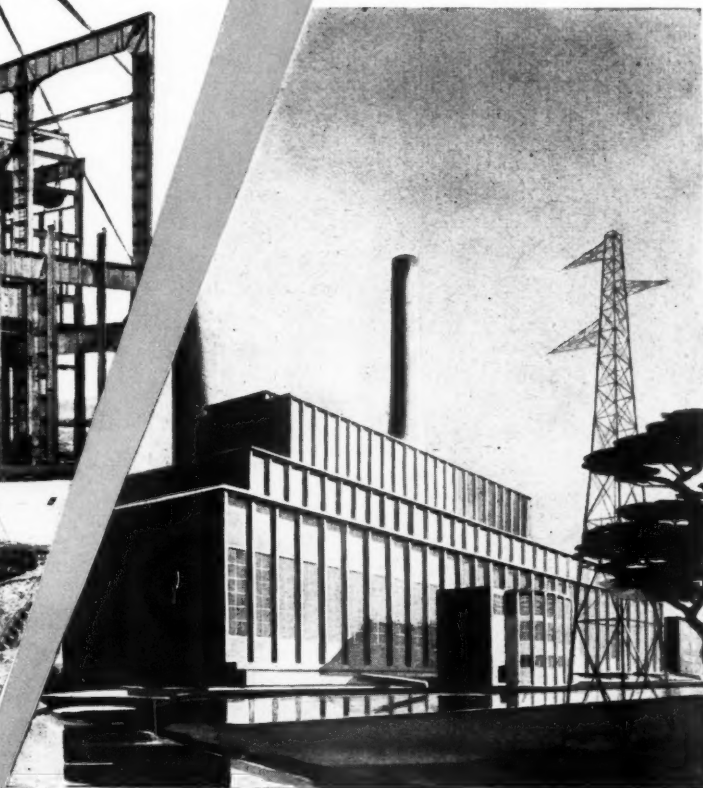
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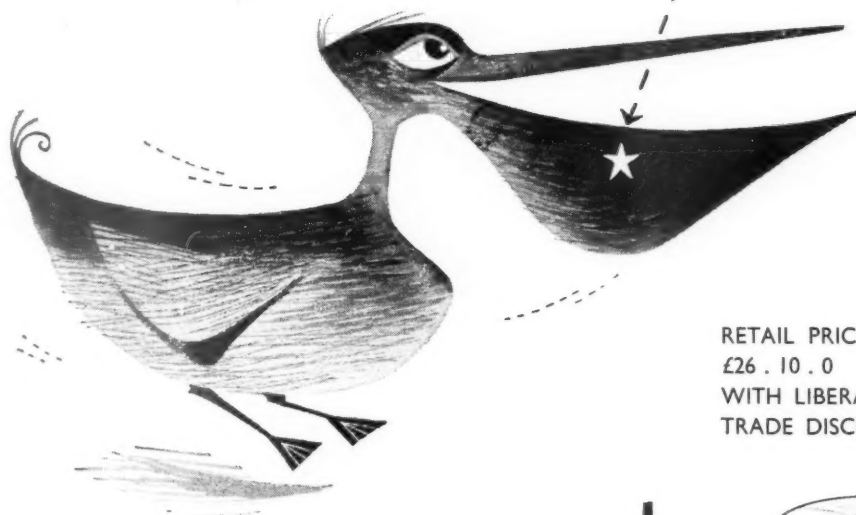


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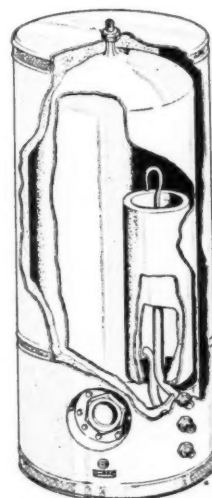
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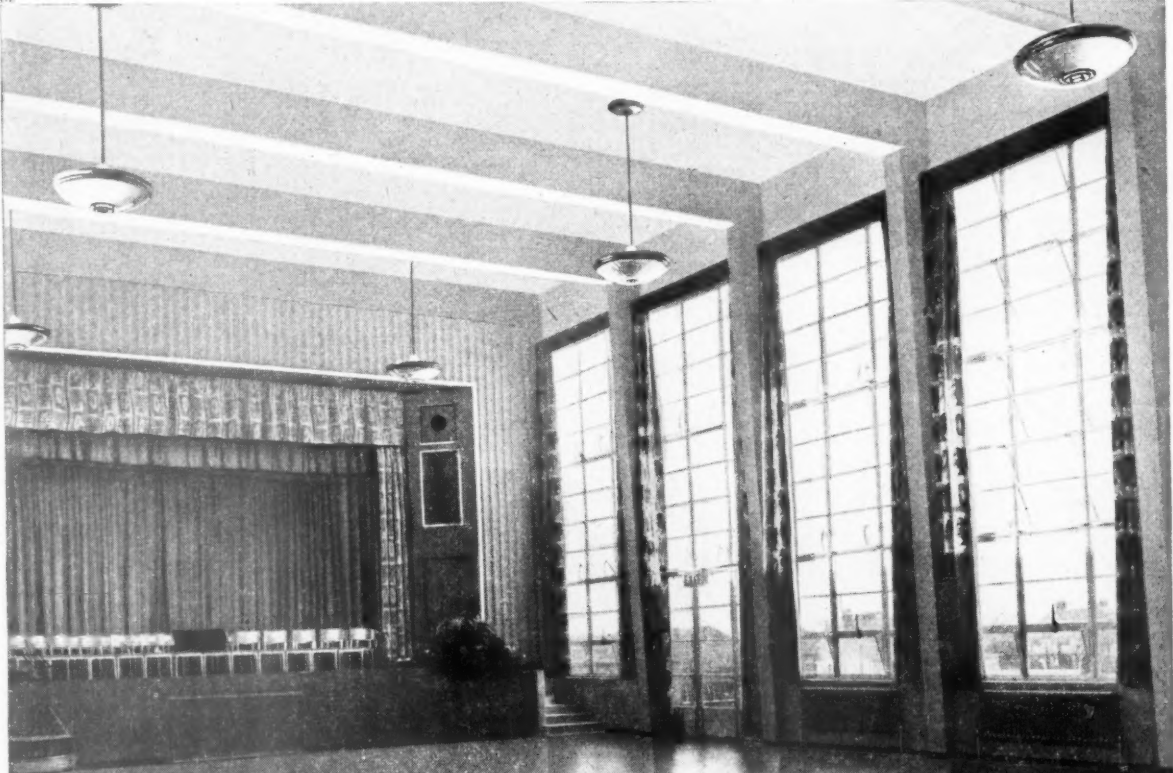
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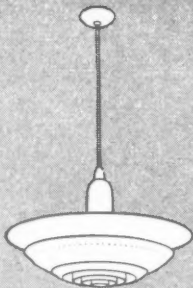


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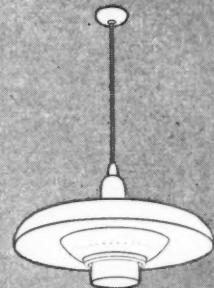
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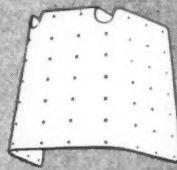
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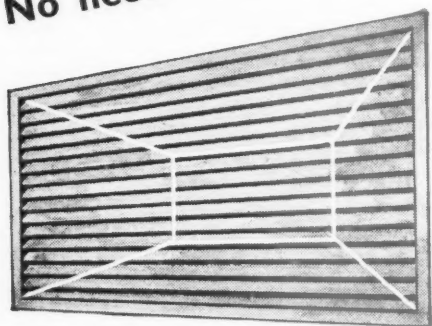


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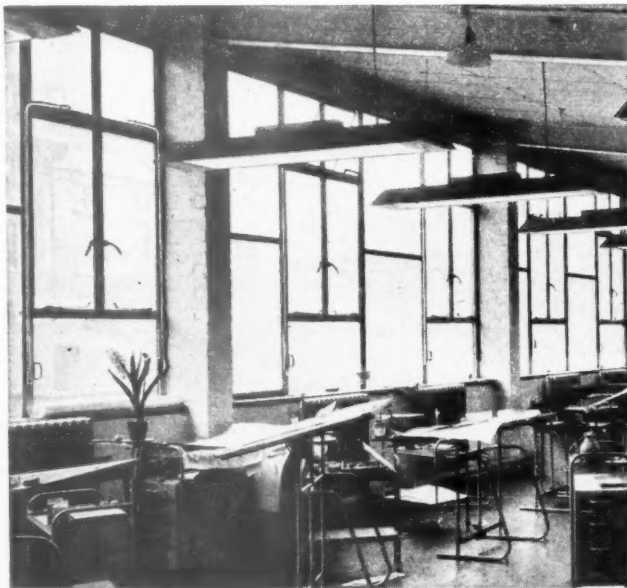
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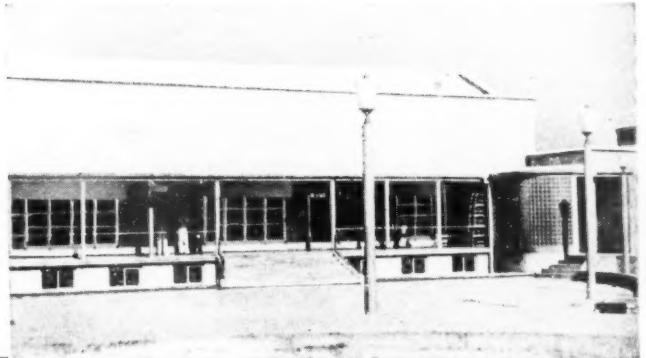
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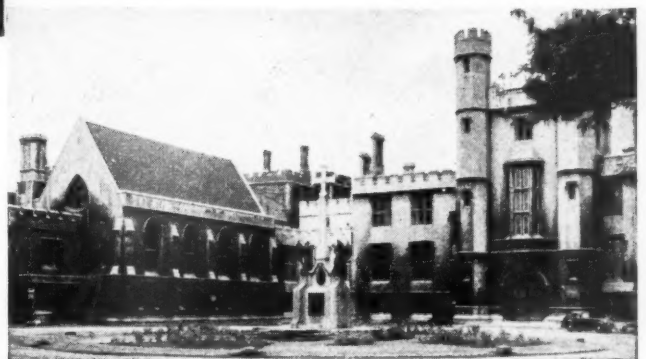
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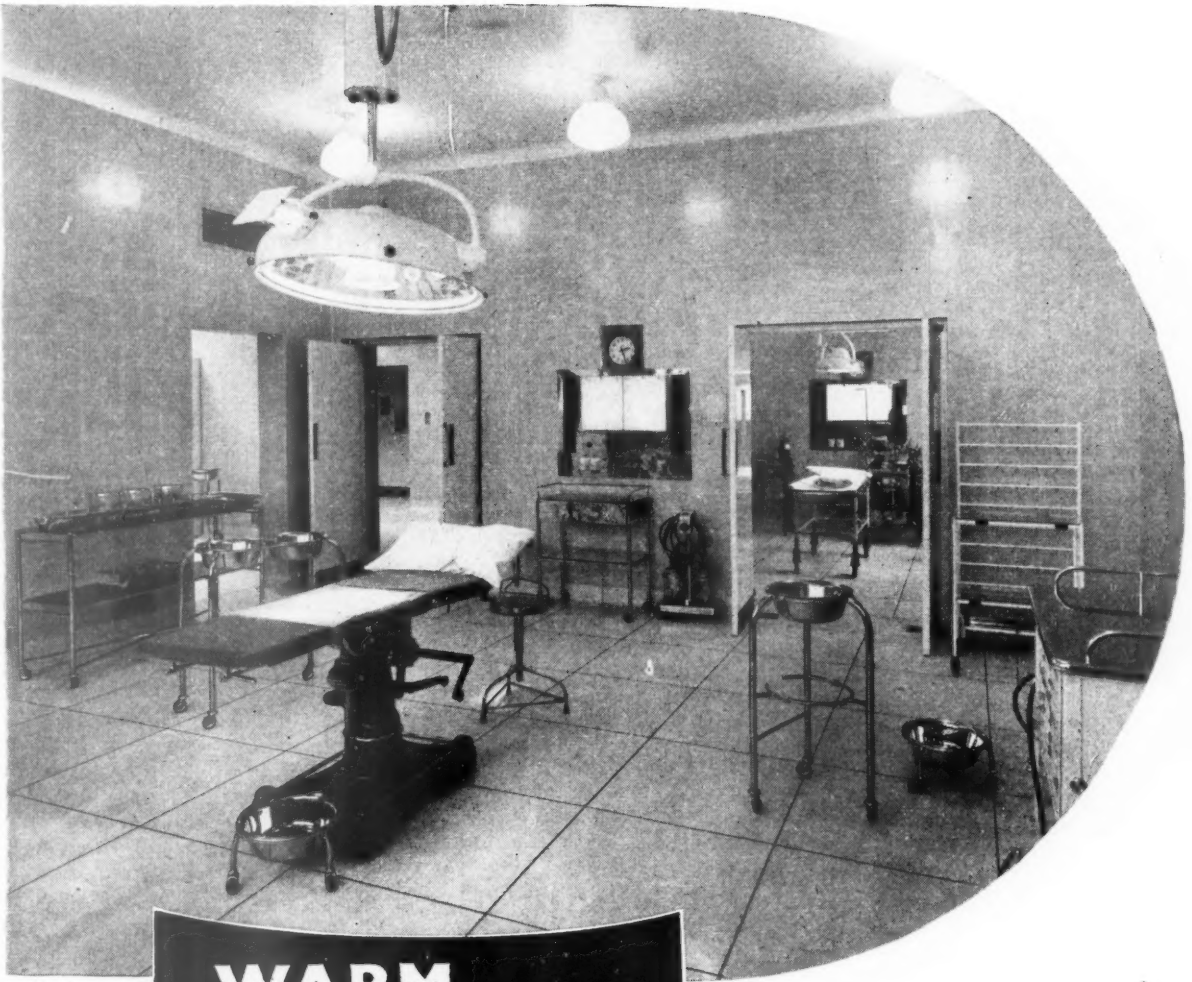
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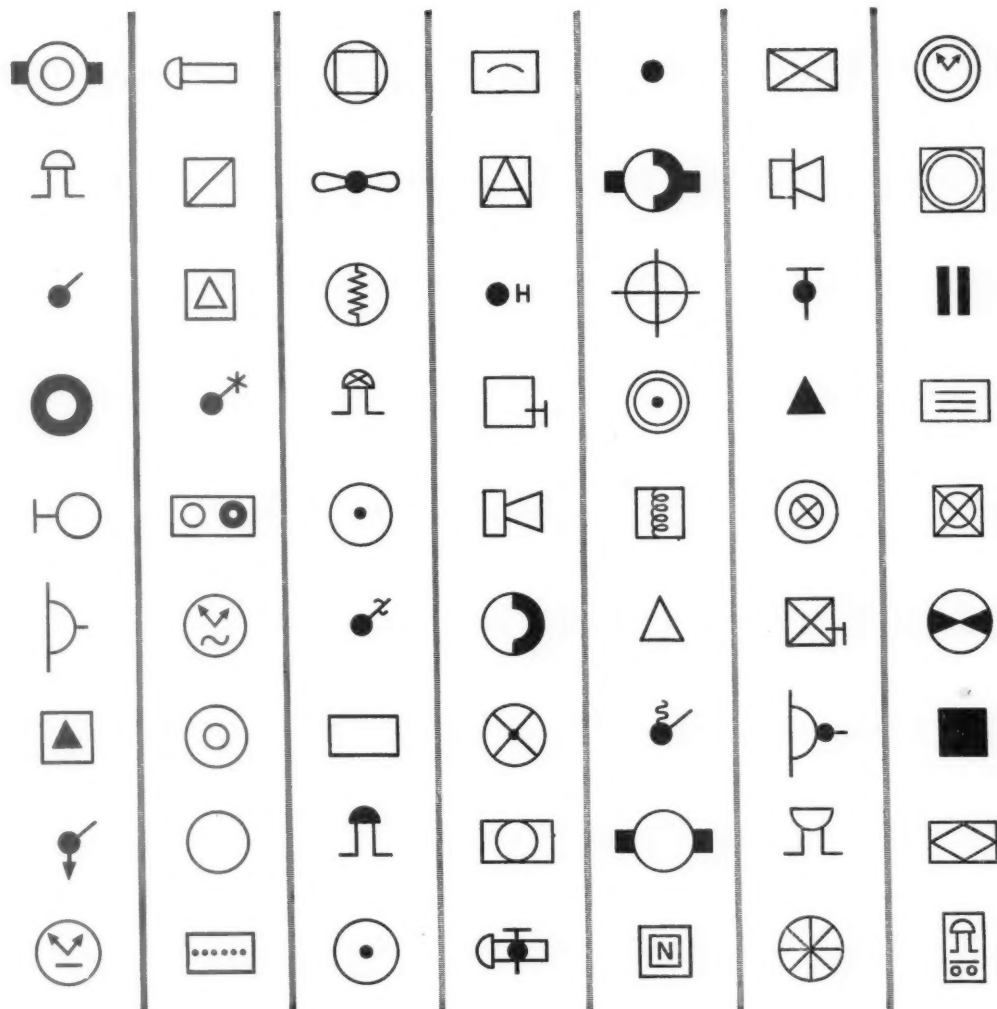
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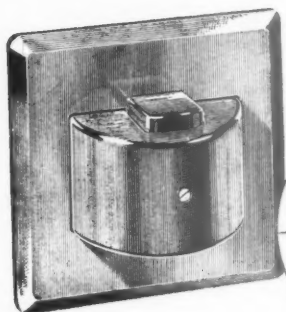
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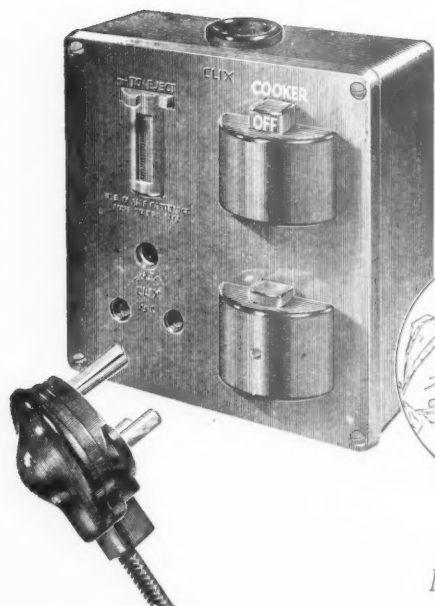
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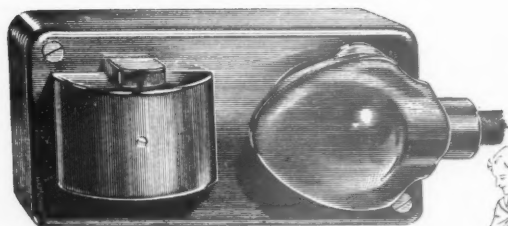
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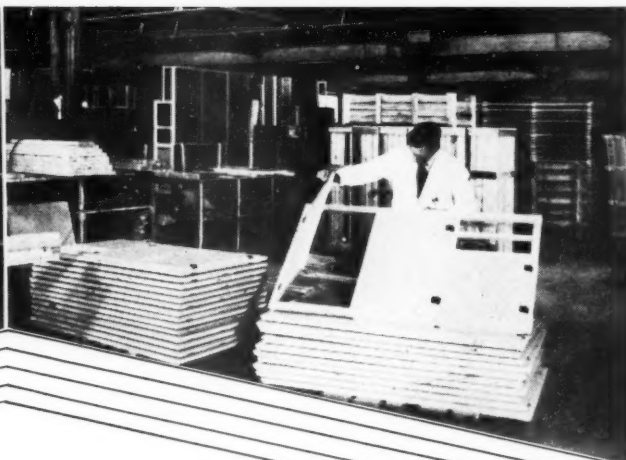
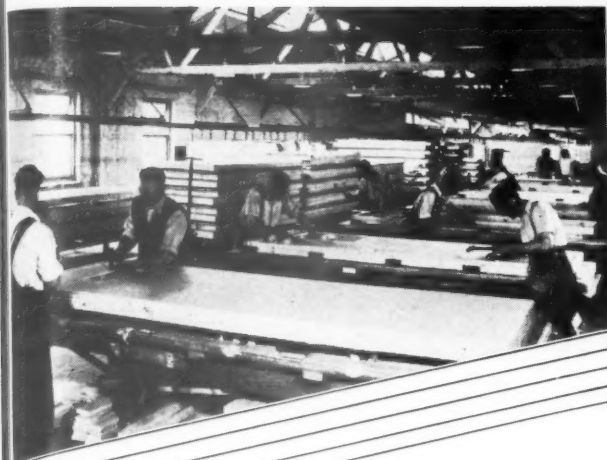
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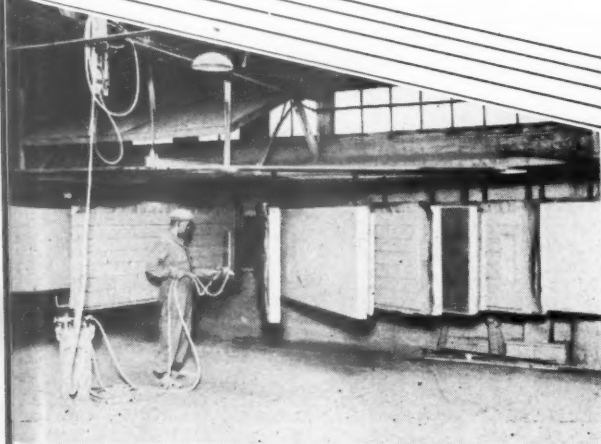
**CONVEYOR TABLES:** *Nealis Harrison.*

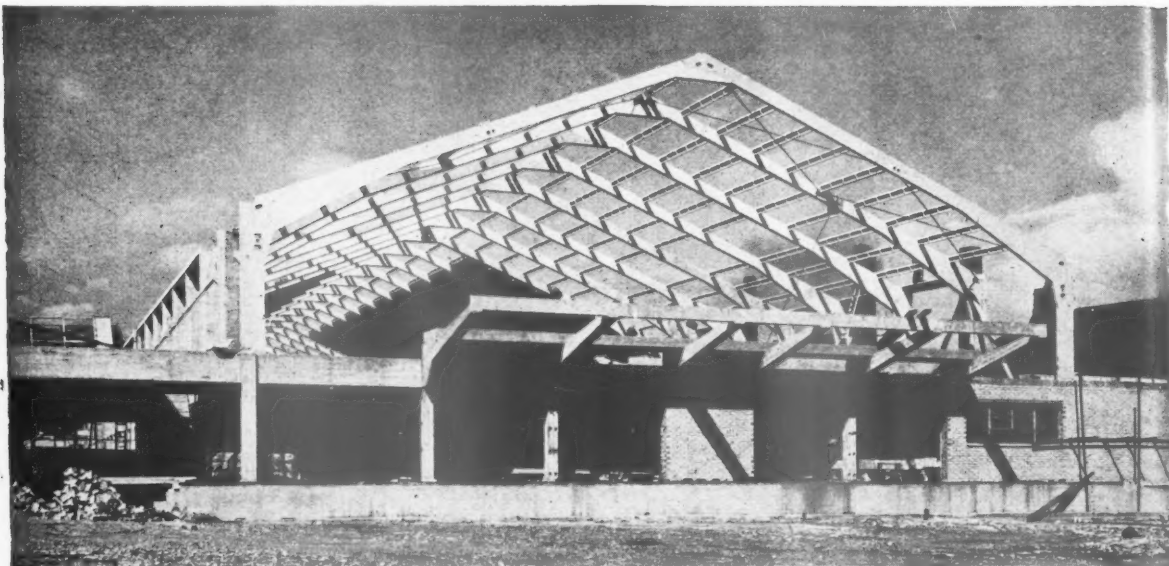
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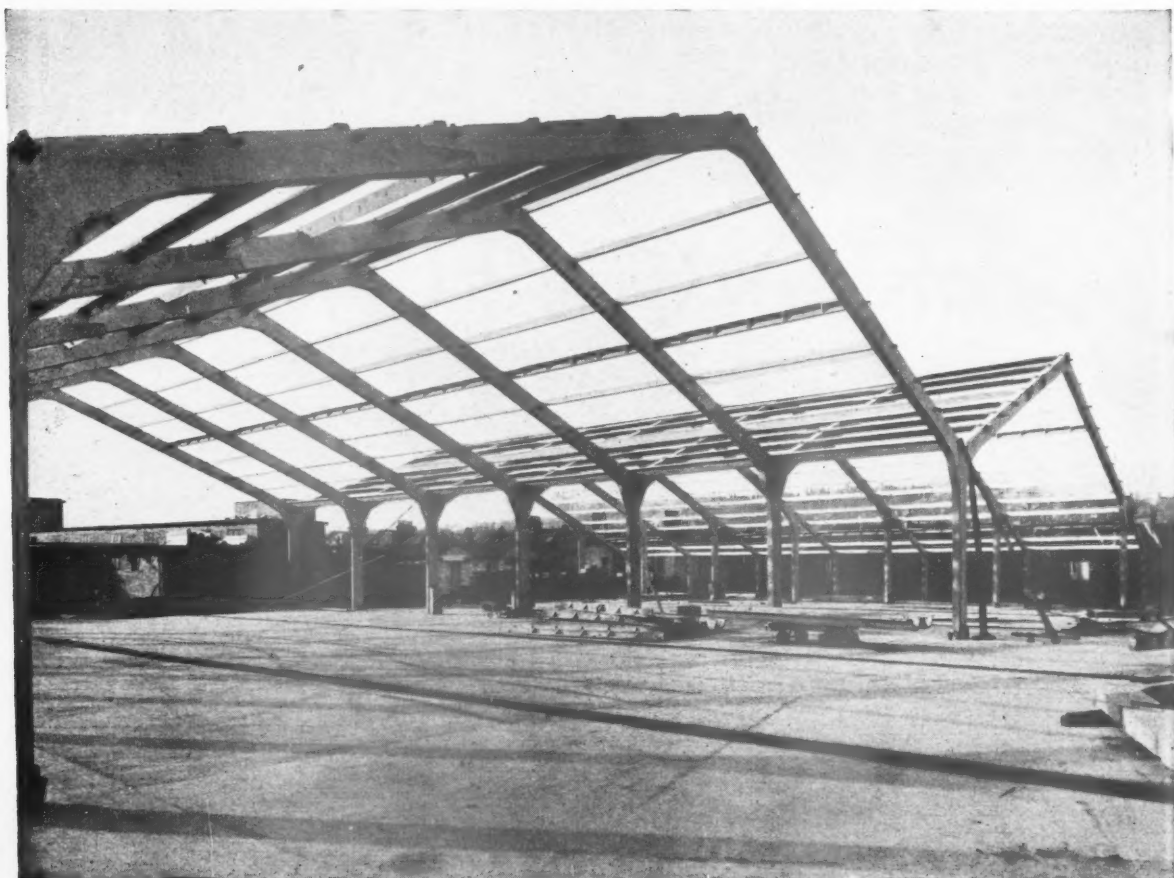
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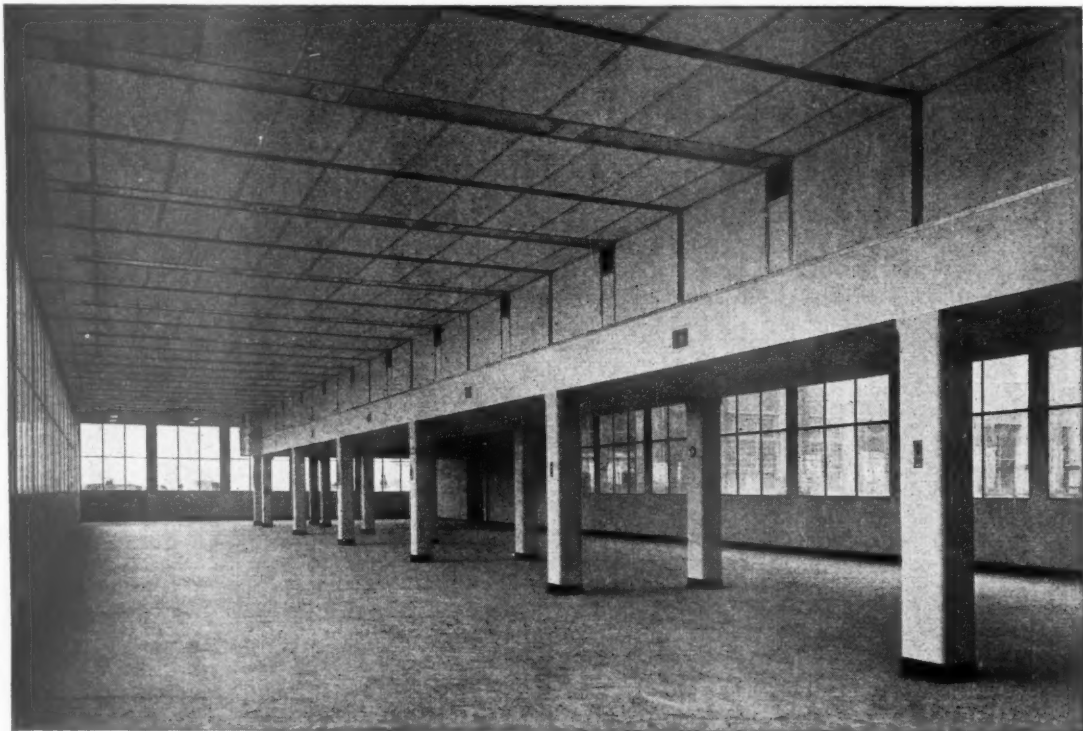


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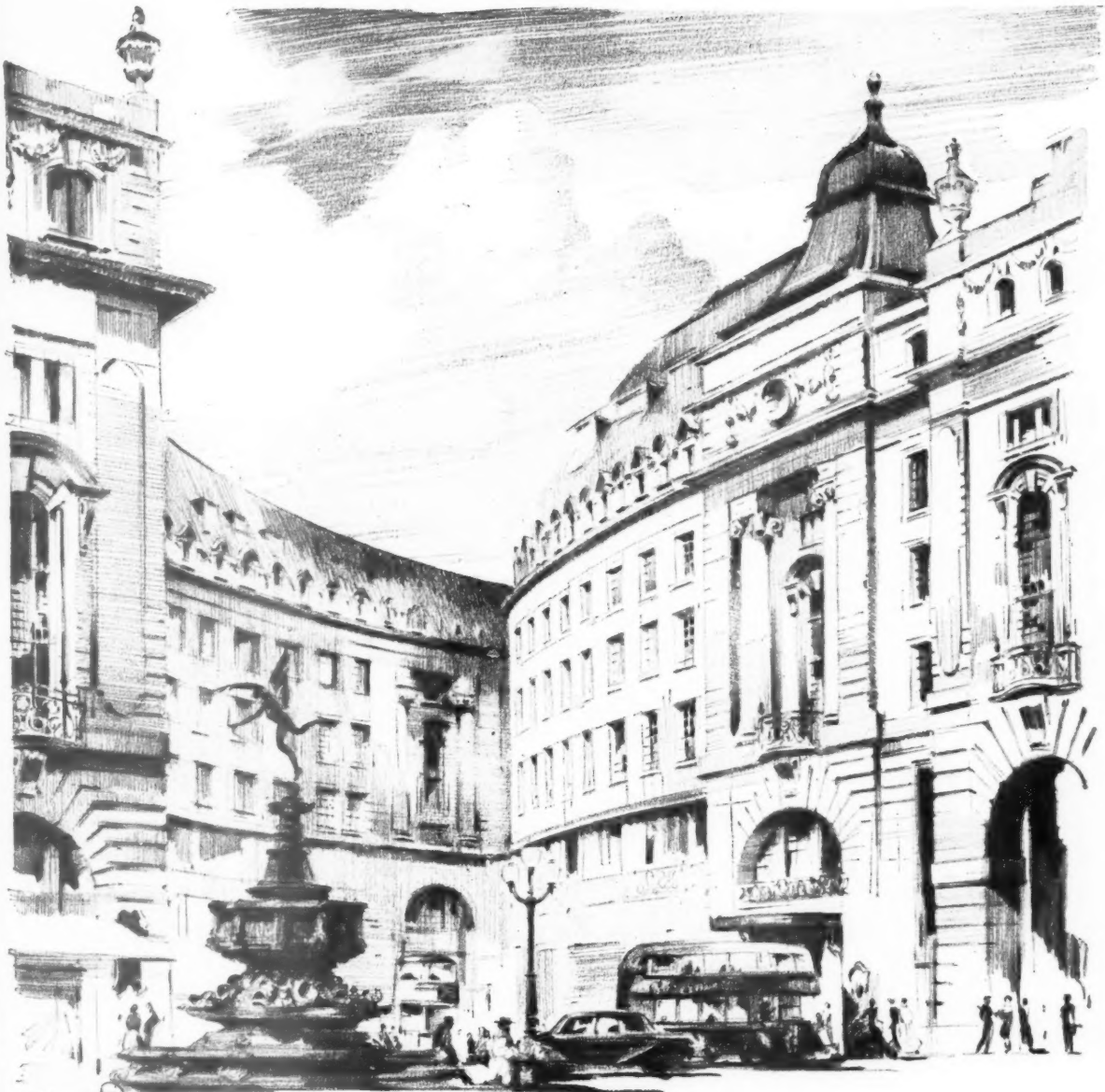
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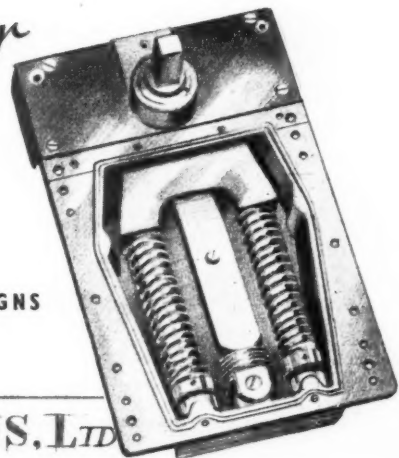
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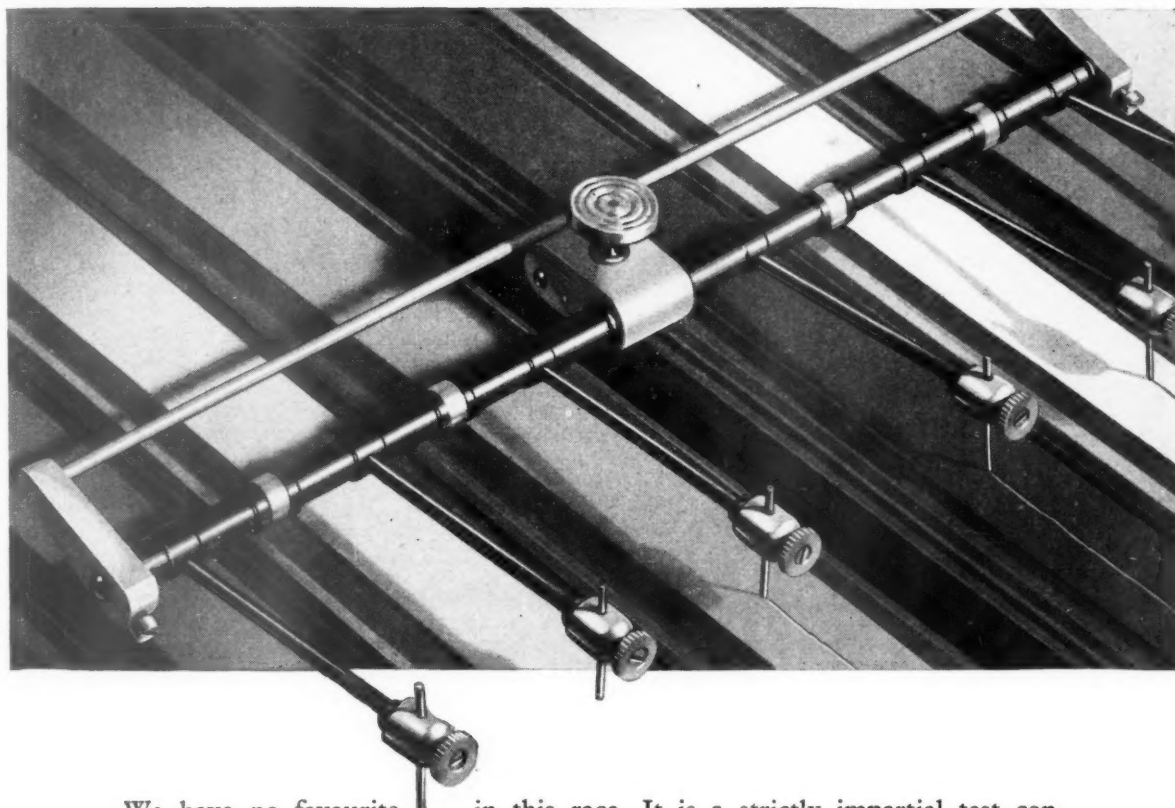
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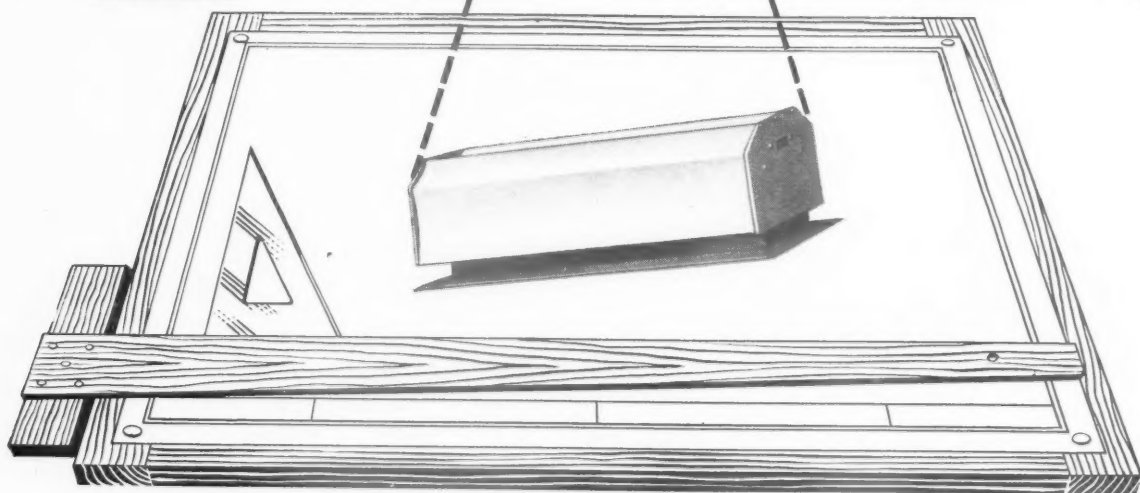
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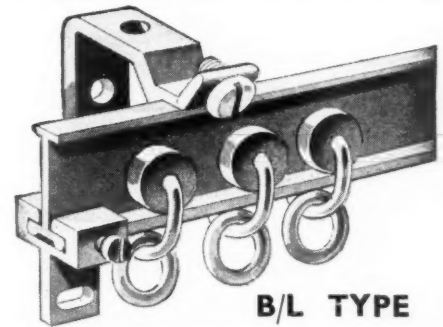
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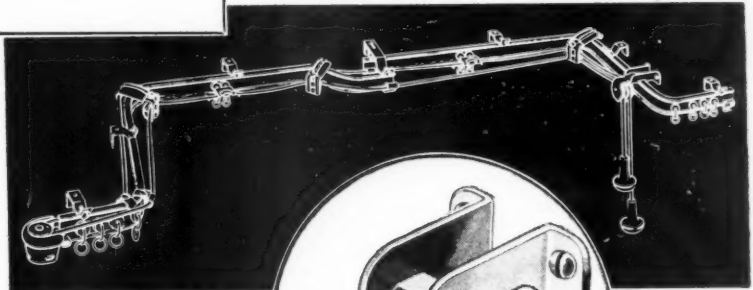


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This is a strong corded or non-corded 'Rufflette' runway for all general purposes. Also available in plastic.

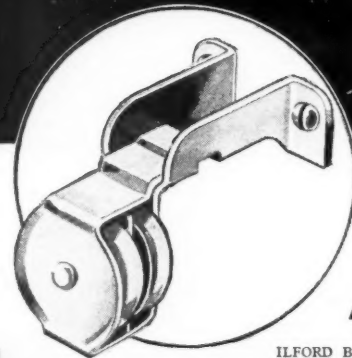
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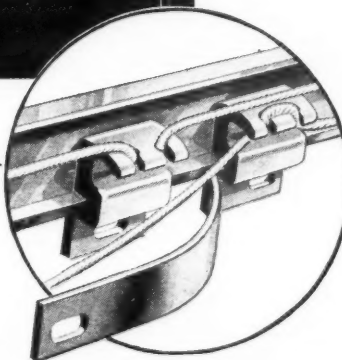


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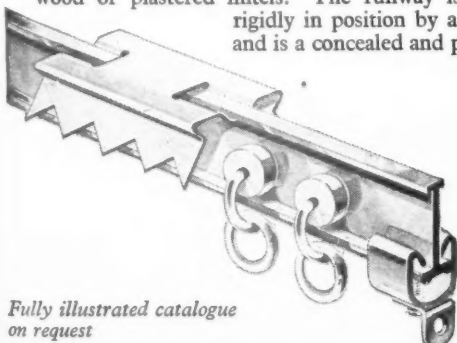
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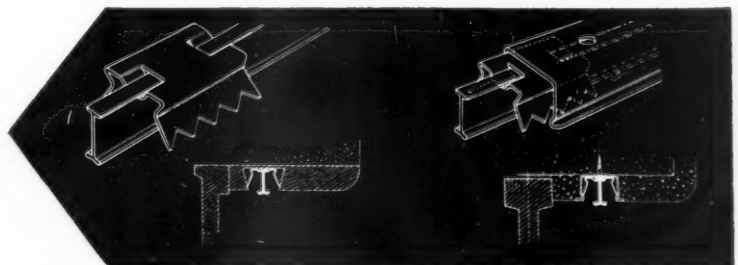
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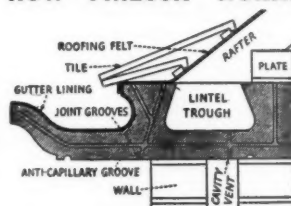
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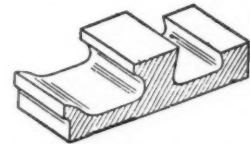
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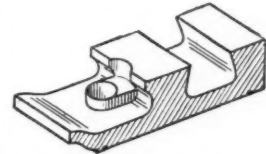
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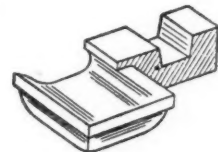
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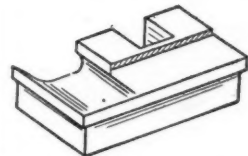
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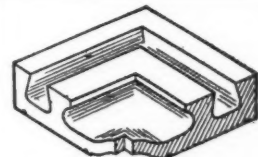
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*The Detached House  
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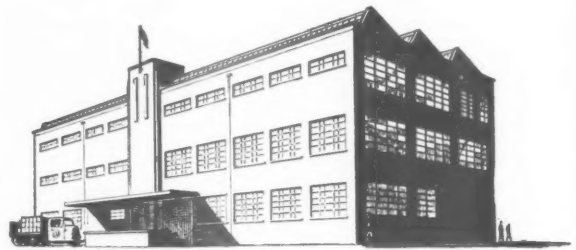
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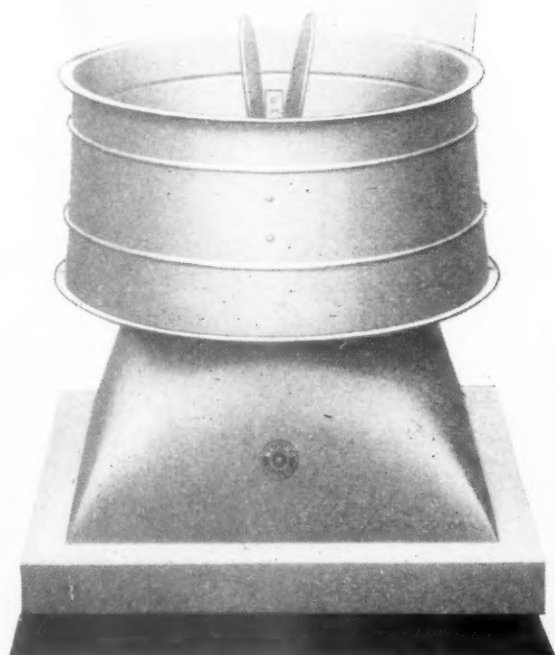
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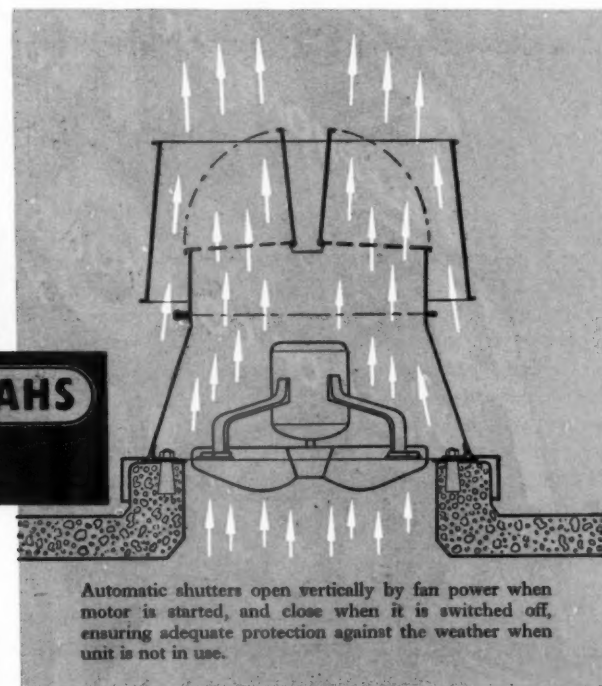


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THE ARCHITECTS' JOURNAL

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Taking a broad average from Bedford Square to Bodmin and Ballantrae, ASTRAGAL reckons that medium offices need £1,000 per head per year (counting everyone) to keep going—each year and every year. With half one's jobs being postponed indefinitely and the rest taking about two years from first instructions to the signing of the contract, month-by-month financing presents problems enough, and tight-lipped bank managers quoting head office instructions make it no easier. Very few private architects feel it worthwhile to think about the basic longer term quotations which were considered by Yorke in his paper. No firm is really healthy if it has no reserves to carry it through a slump and if every member has to go on till he dies over his Tee-square because the firm cannot pay him a retiring pension. Yet it is my guess that today not more than one firm in five has any reserves worth mentioning and that practically no one can afford to retire.

#### MORE LIGHT ON SULLIVAN

The strongest memory one retains of the lectures given by Professor Henry-Russell Hitchcock at the RIBA last Tuesday is of the large number of English buildings which were mentioned in it—in spite of the fact that the subject was *Sullivan and the Skyscraper*. You are warned that from now on architectural pilgrimages will have to include 40, Watling Street in London, Oriel Chambers in Liverpool, and 16, Cook Street in the same town: there are some others, too, but the jungle of ASTRAGAL's notes will not yield their names. (More light at RIBA lectures please—glow-worm glimmers wouldn't spoil slides.)

It appeared from the first half of the lecture that England was well out in front in the design of office blocks throughout the middle of the last century, and that America, particularly Chicago, did not really get ahead until the late seventies. The account of Sullivan's work was fascinating, not only because he was one of the great originals of the nineteenth century, but also because Prof. Hitchcock—with his encyclopaedic knowledge of the period and place—was able all the time to keep the master's contemporaries and rivals clearly in view, and thus to show just where the originality lay—and just how much better Sullivan was than all the rest.

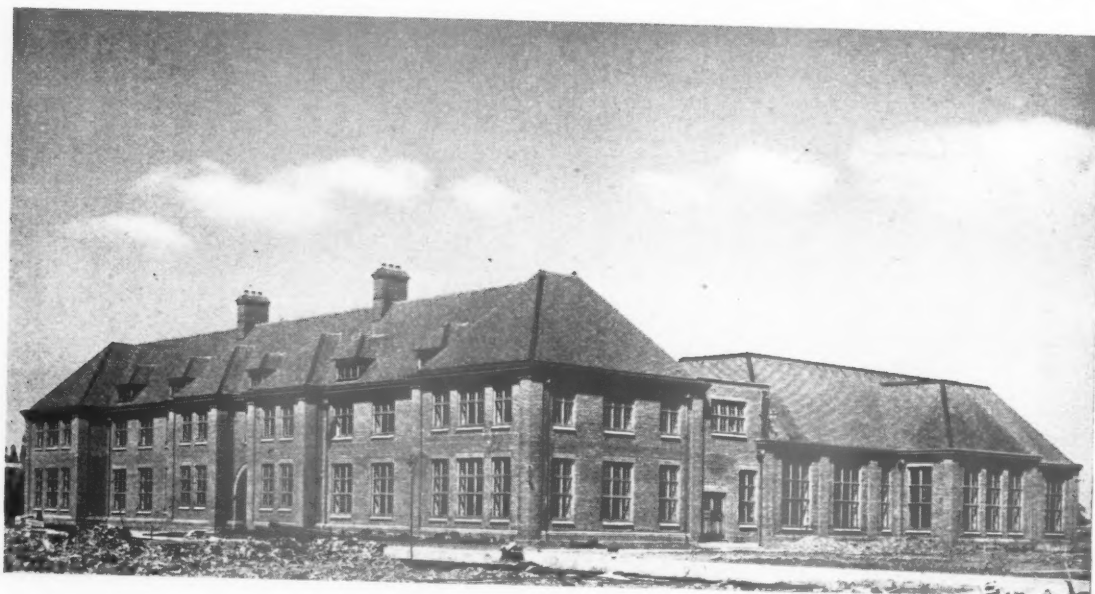
#### EMPEROR SILKIN'S NEW TOWNS

Lord Silkin's question in the House of Lords last week on the New Towns, and the subsequent discussion, has brought several important issues out into the open. Anticipating Lord Silkin's statement, *The Times* of the same morning had devoted a leader to the subject, headed "New Towns or Housing Estates?", and Lord Mancroft, in replying for the government, devoted as much time to answering *The Times* as he did to answering Lord Silkin, for whereas *The Times* had some very pointed questions to ask (questions which one had rather expected Lord Silkin to be asking), the former Minister of Town and Country Planning was complacent and somewhat satisfied. We are indebted to him, however, for bringing the matter up. Lord Mancroft's statement was hardly less complacent, and hardly showed the concern which *The Times'* criticisms warrant. How disquieting the situation is becoming is

#### A THOUGHT FOR THE WEEK

Did you read the summary of F. R. S. Yorke's paper on the finance of private practice? If you did—and if you are in private practice yourself—you will certainly be looking for the full version when it is published—together with other British Architects' Conference papers—in the RIBA JOURNAL. The financial problems in the small and medium-sized office have surely never been more difficult. Every architect who runs one seems to be worried about money and secretly convinced that other firms manage things much better than he does.

# HOPE'S HOT-DIP GALVANIZED WINDOWS



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even more fully demonstrated in the July number of the *Architectural Review*. Its timely article on the New Towns is the most outspoken criticism yet to appear.

One of the hardest things about criticizing the New Towns is that in so doing one hurts many excellent people, planners, architects and others, whose civic sense has prompted them—in the last decade—to devote their talents and energies to these projects, for in their conception were bound up the dreams and aspirations of a generation. But to avoid criticism because of that is cowardice. What we have to admit after all this time is that, like the Emperor's new clothes, our New Towns don't really exist, and the *Review* has, like the small boy in the story, opened our eyes to the fact.

The whole idea that these New Towns should become complete communities—and urban ones at that—has been lost. It is hardly an exaggeration to label them large low-density—if glorified—housing estates, even though some of the New Town neighbourhood centres, especially at Harlow, now have a fair number of community buildings in use or under construction. "Looking at them one might almost imagine oneself not in the era before the war but in that of the nineteen twenties," says the *Review*, complaining of the perpetuation of that extravagant sprawl which the Planning Act and the New Towns Act were intended to correct. ASTRAGAL gladly noted that the *Review*, though it does not absolve architects of responsibility, finds much of the blame lies elsewhere. Indeed the politicians must take a large part of it, though nowadays they are experts at "Pilating" blame into other channels.

Lord Silkin talks about 12,000 houses per annum as "being by no means unsatisfactory" spread over fourteen towns. It was once said to be essential to build this number per annum per town. Rightly Lord Silkin points to a shortage of schools and communal accommodation and suggests that better results would have been achieved if the corporations had not been so restricted. One wonders what freedom of action they had under

Lord Silkin's ministry, when it would have been most useful.

At the end of his statement the former Minister of Town and Country Planning regretted that it was not intended to start any more New Towns. Are not fourteen unfinished towns enough? There is hardly a country in Europe or a State in the US which has not produced at least one example, if not more, of such development, more worthy of the name New Town, yet we continue to talk of ours as if they were the cat's whiskers. As the *Review* point out, it will be a long time before such an opportunity comes again. It is, therefore, all the more vital that we should really assess dispassionately what has happened, what is wrong, and where and how it can be put right, before it is too late.

#### MISUNDERSTOOD—AS USUAL

When ASTRAGAL commented on the British Architects' Conference the other week he made two mistakes. Firstly, he wrote that the next conference hosts would be the Wessex Society. But the conference will be at Torquay and the hosts will, therefore, be the Devon and Cornwall Society. Secondly, he gave the impression (apparently) that he did not appreciate the efforts of the South Eastern Society to make the Conference a serious affair. Let it be said right away that Messrs. Paine, Wilson and other Conference organizers deserve full credit for their very great endeavours. What they could not do was to invigorate the inert bulk of the Conference membership, or enliven a stereotyped Conference programme at one go. At which point one can only say "over to you, Mr. Narracott" (President, Devon and Cornwall Society).

#### JOLLY 3-D

"By my halidom," quoth ASTRAGAL, as arrows whispered across Tintagel's cliffs. It is true that they were rubber-tipped, being the property of Metro-Goldwyn and—so one assumes—Mayer. But although the MGM company is kind enough to keep unsocial realism out of its film making, it cannot afford to hire men-at-arms for two guineas per man per day without getting, in return, an occasional authentic howl. Even a rubber-tipped arrow is guaranteed to bring a pained oath from anyone who stops its flight. So, as you have been told, ASTRAGAL swore upon his halidom, clasping—

meantime—a stinging ear or two. "Cut," said the director—though not, it was a relief to discover, because of your columnist's indiscretion. And everyone started to queue up—Picts, Normans and technicians—for a mobile canteen lunch beside the ruins of King Arthur's Castle.

Why, you may ask, should ASTRAGAL be involved in such doings? He was asking the same question himself before the day was out. The truth is that by the time he had been hypnotized away from a short holiday into chain armour (too tight) and a helmet (too small)—"make him as man-at-armish as possible," said the assistant director—it was too late to worry about the amplified announcement that "after this morning's nasty casualties we shall take a serious view of indiscriminate firing of arrows." By then, as you might imagine, ASTRAGAL hardly needed the sweat that was generously daubed on his brow by the conscientious make-up man. "Must make you as fifteen-hundredish as possible for a fifteenth century film," he explained irrelevantly and inaccurately, adding a spongy of stubble trouble for good measure.

"Arrow machines ready" came a sinister shout, and a few hundred Cornishmen—armed with bows, spiked clubs and swords—each marked their man, with many a cry of "I'll get 'ee next toime." Then, with the manner of a chief prefect, the associate director hushed the mob. "Our American director," he said, "hopes the next take will be jolly D." And as this gem of Anglo-American understanding was passed—with a reverence befitting a Goldwynism—from Pict to bowman, the three dimensional cameras began to turn and ASTRAGAL joined in a free-for-all, from which he emerged with a slightly battered thumb, forty-two shillings and a printed slip which promoted him to the rank of an artiste but disclaimed any responsibility for his state of wind and limb.

And if you still don't know ASTRAGAL'S real identity, you will see him lying flat on his back—in full colour and in all dimensions—in *Knights of the Round Table*, about eighteen months from now. Robert Taylor also has a part.

ASTRAGAL





## The Jam in the Doughnut

No one could call Hull, the subject of the eighth article in the JOURNAL'S series on the rebuilding of the blitzed cities, a pretty place. Built on mud flats and lacking trees, the landscape is dull. The bulk of the city's growth has taken place during the last hundred years, when the population has trebled. Consequently, to enter the city is to progress through concentric bands of the dreariest monotony of speculative builder's

villas and bye-law housing. A more fortunate slice through Hull's doughy environment reveals the factory for Smith and Nephew, above, one of the few examples of contemporary jam in the centre of an otherwise stale bun. It is somewhat embarrassing to have to add that this simple, unpretentious design has been achieved without the aid of architects by W. S. Atkins & Partners, consulting engineers (photo: Aerofilms)

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# NEWS

## RIBA

### Elections to Council

Howard Robertson was re-elected president of the RIBA for the session 1953-54, at general meeting of the council last week. A. G. Henderson and Sir Percy Thomas were the past presidents elected to the council.

The following members were elected.—C. H. Aslin, Professor Sir William G. Holford, Dr. J. L. Martin, Ralph Tubbs, A. G. Sheppard Fidler and R. E. Enthoven. The following associate members of the council were elected:—Professor R. H. Matthew, Peter Sheppard, Grenfell Baines, P. E. A. Johnson-Marshall and R. A. H. Livett. Bernard Hugh Cox was elected licentiate member of the council.

## TPI

### New President

Professor Sir William Holford has been elected president of the TPI for 1953-54. He will take office in November, when S. L. G. Beaufoy's term of office expires.

## COURSE

### Rural Architecture

A course intended for architectural students, architects and planners, who wish to study the pattern of villages and country towns in a southern rural region, will be held at the Juniper Hall Field Centre, Dorking, Surrey, from August 19 to 26. The field studies to be undertaken are designed to show the influence of actual resources on traditional and modern architecture. The sites, layout and functions of selected villages and small towns, will be studied and their problems discussed.

The course will be given by the resident staff of the Centre. Visiting tutors will include W. L. Waide, county planning officer, Cambridgeshire, Herbert Jackson and members of the planning staffs of Surrey and Sussex county councils. The fee for the course is £7. Further information can be obtained from the Warden, Juniper Hall Field Centre, Dorking, Surrey.

## NFBTO

### Forty Hour Week?

The NFBTO is to apply for a 40-hour week without loss of wages, on the recommendation of the London regional council, it was decided at the annual conference of the NFBTO at Skegness, held recently. A 44-hour guarantee, instead of the present 32 hours, is also to be pressed for by the executive.

## DIARY

*Aluminium in Building.* At the ADA, 33, Grosvenor Street, W.1. 10 a.m. to 5 p.m. JULY 2-3

*Ten Selected "News Chronicle" Coronation House Designs.* At Heal's, 196, Tottenham Court Road, W.1. Weekdays, 9 a.m. to 5.30 p.m.; Saturdays, until 1 p.m. JULY 6-25

*Contemporary Brazilian Architecture.* Exhibition at the BC, 26, Store Street, W.1. Weekdays, 9.30 a.m. to 5 p.m.; Saturdays, until 1 a.m. JULY 8-31

*Furnishing to a Figure.* At Heal's, 196, Tottenham Court Road, W.1. Weekdays, 9 a.m. to 5.30 p.m.; Saturdays, until 1 p.m. UNTIL JULY 31



(photo: Aerofilms)

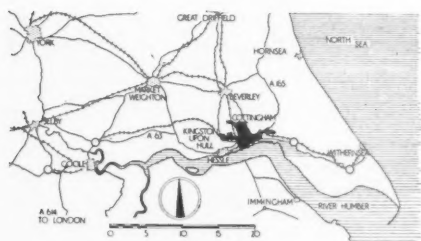
## The Editors

### AN INVISIBLE BARRIER

**H**ULL, the subject of the eighth article on the rebuilding of the blitzed towns, was once a walled and moated city. This moat, which linked the rivers Hull and Humber, largely survives today in the form of docks. They can be seen on the left in the photograph above, which shows the major portion of the Old Town. Just discernible at the top is the strip of Queen's Gardens which marks the former position of the most inland, and the oldest, of the docks which once circled the Old Town.

As at Bristol, and at Southampton, the citizens of Hull, by reclaiming land from what was water, have acquired undeveloped land in the centre of the city. Bristol use theirs as a bus park and roundabout. Southampton use, or hope to use, their much vaster space for factories. Hull seems to have forgotten all about it. In the development plan it is zoned to be surrounded by recreational and public buildings, with a Technical College at one end. Whatever happens, it may remain a barrier between the Old Town and the new. In towns and built-up areas, a water barrier is not removed merely by filling it in and making it possible to walk over it. In terms of traffic circulation and road pattern, therefore, and even psychologically, too, the barrier remains, and it would take a Haussman to break it down.

So, for many years, at any rate, the little area shown above will remain congested island, and contain, at its southernmost tip, the rather pathetic little pier, which is the Hull citizen's only public access to the river front, and the ferry stage which is the city's sole direct link with Lincoln. All the more reason, therefore, for lavishing special care on this dilapidated, decaying slum—which is the old heart of the city.



*The City and County of Kingston upon Hull, to give the town its full title, is the eighth town in the JOURNAL's series of articles on the post-war reconstruction and planning of the blitzed towns. On the following nine pages the planning proposals are described and the major post-war buildings designed by architects from outside Hull are illustrated. Then follows sixteen pages illustrating the buildings designed by public and private architects who work in Hull.*

## A SURVEY BY D. RIGBY CHILDS OF HULL

ANYONE concerned with building in Hull is well aware how low-lying is the level of the ground throughout the city and how unstable the subsoil. The mean level is only about 8 ft. above sea level, whereas the mean of spring tide reaches 10.68 above Ordnance datum, so that most of the city is thus below high water mark. The monotony of the levels contribute much to the drabness of the landscape which, once relieved by a multitude of windmills, now depends for variety upon the array of saw-toothed warehouses on the water's edge and the odd outcrop of Victorian church, or factory. The main water front is the River Humber, but there is also its tributary, the River Hull, cutting the city in two, east and west.

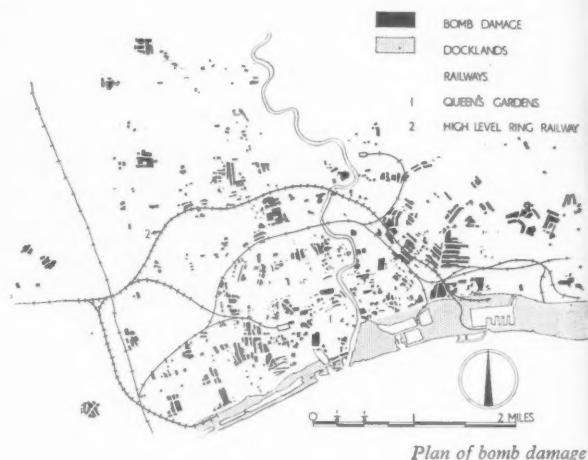
Building high in Hull is a venture fraught with difficulties. To begin with, the city stands on a bed of clay overlaying a silt bed with boulder clay, or chalk, below, at depths from 30 to 70 ft. In the circumstances it is not surprising that the safe bearing capacity is only about  $\frac{1}{2}$  ton per square foot and that any building above three storeys must stand on pile foundations. To complicate matters the subsoil is subject to expansion and shrinkage due to variations in water content; and if the top clay is penetrated, water rises to within a few feet of the surface. It appears to be only economical to construct basements where land is expensive, as in the central area. In addition, the level bleakness of the site gives no protection above ordinary roof level to the chill winds that blow from the north-east. These winds are certainly not an inducement to any one to live in high blocks of flats. The highest block which the City Council has so far built has six storeys and this is in a reasonably well protected area.

### bomb damage

The city suffered heavily in the war years through bomb damage, which was very widespread (see plan). An indication of how severe it was can be seen from the figures for damage to housing. In September, 1939, there were about 91,000 separate units of housing in the city, including about 4,500 house-shops. Of these only 5,690 escaped damage; 1,474 were totally demolished and the only remedy for a further 3,831 was complete demolition. Because of damage occurring on more than one occasion the individual number of war-damage claims amounted to over 100,000.

In addition to these heavy total losses in housing and the accompanying damaged property, industry, in losing an estimated 2,000,000 sq. ft. of floor space, lost about 12 per cent. of total space available; the shopping streets lost five main departmental stores completely, together with about half the principal retail shops in the centre, twenty-one churches, six cinemas and two theatres.

That was the measure of the damage in this city which suffered 86 major air raids. The docks, needless to say, were badly damaged. Hull has been described as one of the three most damaged areas in the country and because of this one would have expected that it would have been to the fore in reconstruction.

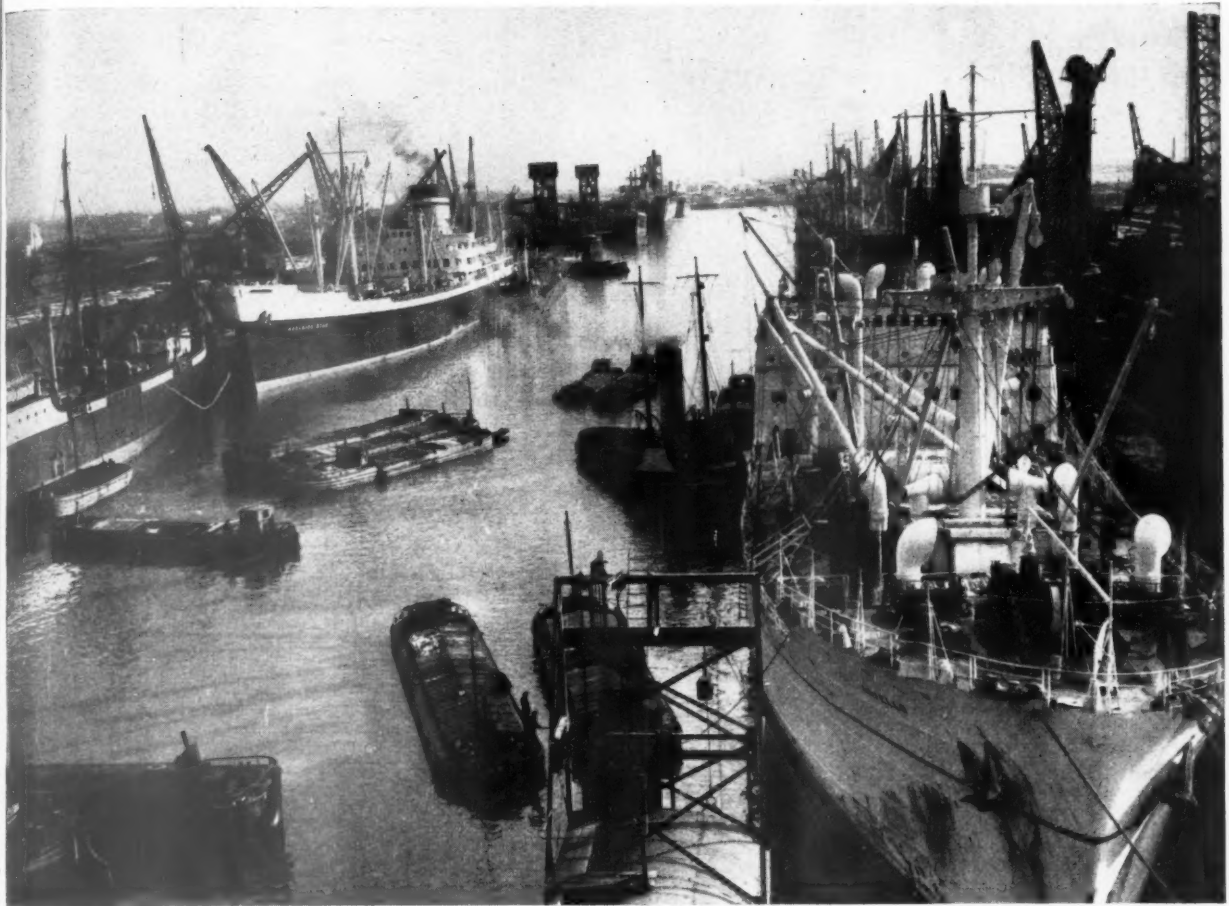


Plan of bomb damage

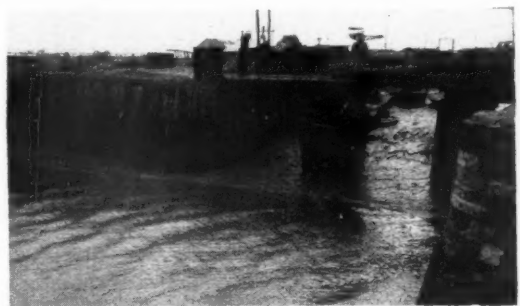
### reconstruction

The start on reconstruction was promising. With the aid of a Leverhulme Grant, Max Lock, one-time head of the Hull School of Architecture, and a large team of associates, carried out a Civic Survey, which was the forerunner of a number of such surveys made in the post-war years. In 1943, the City Council appointed Sir Edwin Lutyns and Professor Abercrombie, who had both visited Hull pre-war as members of the Fine Arts Commission, to prepare a Master Plan for Reconstruction. The Consultants, one of whom, Sir E. Lutyns, unhappily died at the outset of the work, were instructed to plan boldly and for the long-term; and how splendidly they did this is evident in the 1944 published Report. Seven long years were to pass, however, before the City Council were able to consider their Consultants' plan, the amendments prepared by their own staffs and finally to agree on a working plan for the next 20-year period. In this plan can be found a few details of the 1944 plan but none of the main concepts. It should be realized that in Hull planning has been the subject of fierce controversy between two rival shades of opinion. Admirable as it is that city reconstruction should be the focus of interests, the weakness is that it appears issues may not be judged strictly on merits. As a result of the long series of inconclusive arguments, the plans and counter-plans which were a feature of post-war planning in Hull up to two to three years ago, it is probably not an exaggeration to say that the pace of reconstruction in the central areas has not been markedly slowed up merely by the limitations upon building in past years. The allocations which in fact have been made to Hull for central area rebuilding began in 1950 with an allocation of £50,000 (plus permission to spend a further £50,000 which did not count as a capital allocation!). In 1951, £300,000 was allowed together with supplementary licences totalling £120,000. In 1952, owing to the steel and capital shortage,

(continued on page 10)



Hull largely lives on its docks. There are about seven miles of them, the oldest being upstream and the newest downstream, due, of course, to the need for deeper water for the modern merchant ship. The newest dock is the King George Dock, above, which lies about three miles east of the town. In contrast is the St. Andrew's Dock, left, a narrow strip of water used exclusively for the fishing trade. The type of fishing trawler shown is built five miles inland, at Beverley, and floated down the narrow Hull river to the Humber. The lower reaches of the Hull river are shown below, left and centre, walled in by bascule bridges. Of historic buildings only a handful remain: typical are the Georgian Trinity House, its first floor undermined by shops, and Wilberforce House, below, right, a late sixteenth-century brick house, once owned by slave-trade abolitionist William Wilberforce and now a museum. The photograph right, shows the dilapidated condition of the wharves and river wall in the very centre of the river front.







The photographs on this and the opposite page show most of the centre of Hull and reveal very clearly the city's great difficulty as regards the creation of a true centre to the City. There have been at least two abortive attempts at making a centre, quite apart from those centres which have evolved naturally. Right, is the Old Town. Top right is the river Humber, and running inland, a third of the way down the photograph is the thin muddy streak of the river Hull. Then comes the chain of docks which are based on the moat which once circled the old walled city. This Old Town was thus virtually an island, and the narrow streets and alleys indicate its overcrowded state due to this fact. The moat has been bridged, over the years, with the creation of the docks, and the Old Town turned from an island into a peninsula by the filling-in of the most inland of the docks. The axial gardens thus formed can be seen in the photograph, left. Before leaving the Old Town, right, it is worth noting: the little blitzed street running close beside and parallel with the river Hull which is the old High Street; the parish church of Holy Trinity, the largest in the country, standing in the market place; and the street on the extreme left of the photograph, Whitefriargate, the present main shopping street, which becomes so crowded that shoppers leave the pavements, causing the street to become impassable for cars. Note also Hull's greatest asset, architecturally, the magnificent dock buildings and warehouses in the centre of the photograph, whose saw-tooth roofs are almost the only distinctive feature of the Hull skyline.

The photographs on the left, and above left, virtually complete the aerial view of the city centre. In the lower right corner of the bottom photo is repeated the white-domed City Hall shown on the opposite page. Running up the right-hand side of the photograph is Alfred Gelder Street, named after a past Lord Mayor and local architect, Sir Alfred Gelder. On the left of the street is the Guildhall, and in the distance, above it, is the recently extended Clarence Mill (see page 20). The lines of the old dock, now replaced by Queen's Gardens, are very clear. At the far end of this neglected open space is the Wilberforce column, beyond which will be sited Hull's Technical College, designed by Frederick Gibberd (see page 10). This piece of much-needed open space is quite unrelated, as such, to the Hull street pattern, and, lying hidden behind old warehouses, is hard to discern from street level, and, when found, being cut off from houses or shops and unattractively laid out, not worth discovering. It is the first of the abortive attempts to form a city centre. Just left of the City Hall is the Ravenscroft building (see page 11) and on the opposite side of the road, the empty site of the Triangle Development Trust. These two blocks of shops will provide a counterbalance to the present shopping centre of Whitefriargate, but neither will make a

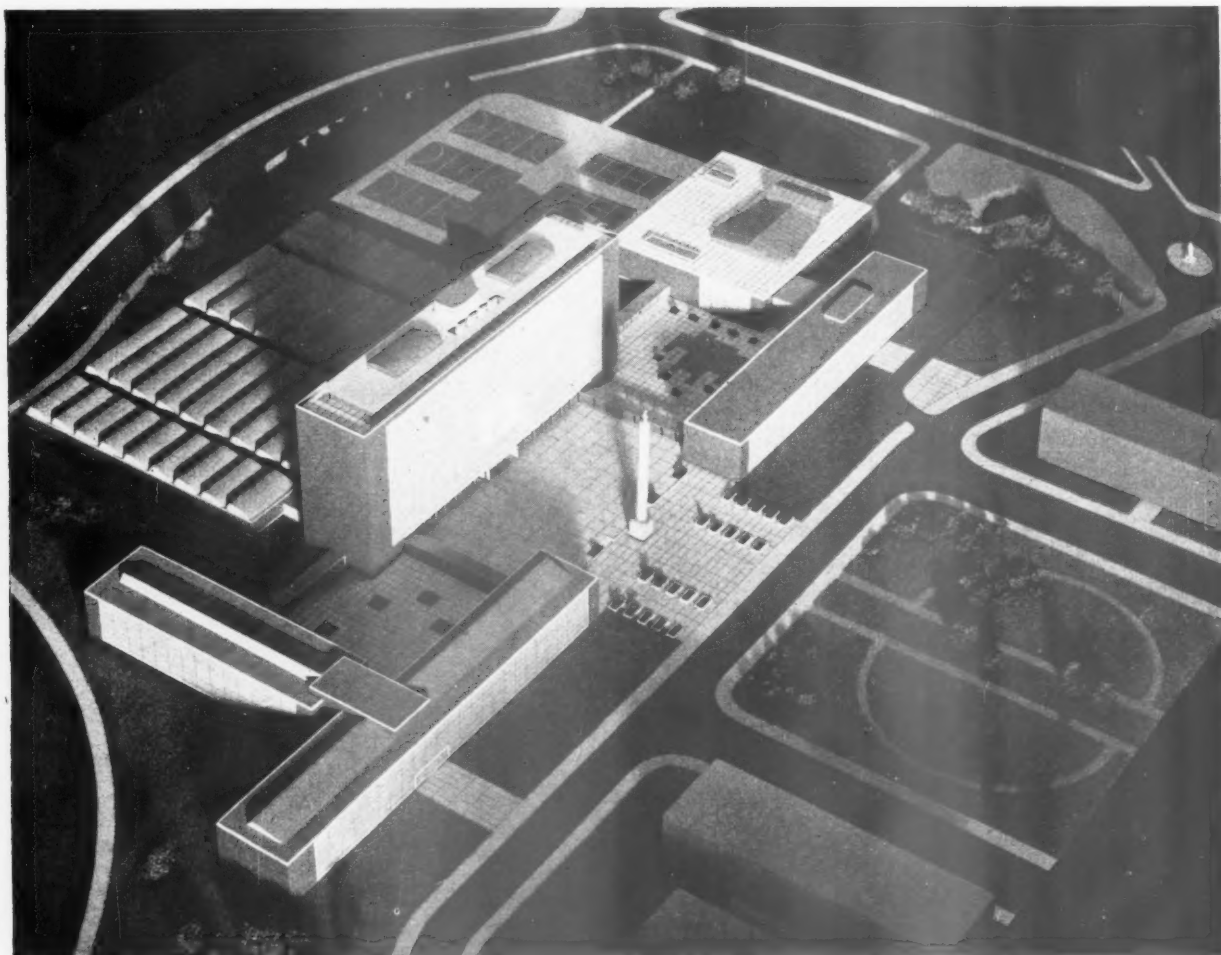
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reasonable setting to the wretched and misnamed Queen Victoria Square. Opposite top, a view of Ferenway. A wide street, only partially built up, which was the result of a competition for a main shopping centre some years before the war. It can be seen running diagonally on the

left in the photo, top left, on page 8, which also shows the empty sites alongside it, due not to the blitz but to the reluctance of private enterprise to build on leasehold corporation property. This is the second of the attempts to form a centre to the city. (All aerial views by Aerofilms.)





no allocation was made but the city was granted, nonetheless, further supplementary licences to be spread over 1952-53, totalling £754,000. In 1953, a capital allocation of £400,000 was granted, but subject to the deduction of supplementary licences not already spent, leaving, in effect, a balance of £150,000, but a further £90,000 has been allowed for rebuilding two major stores.

The reconstruction of the docks, the foundation of the city's existence, has not received much publicity, although in the past three to four years £4,000,000 has been spent and further major operations are to be started, as we shall describe later.

#### central area

There have been and are three main phases in the development of the Central area, whose history has been intimately linked with that of the docks. The old town—the city of Kingston upon Hull—was bounded more or less within the lines of the River Hull, the former Queen's Dock and the present Prince's and Humber Docks: which docks follow the lines of the former city moat. The old town, dominated by Holy Trinity Parish Church, with its narrow and winding streets, brick-built offices and warehouses, the smell and sight of shipping and trade still within reach, retains a certain charm amidst the general grime. Though some road widening and other opening up in time is inevitable it is likely that the evolution of development in the old town will continue more or less independently of the complex developments elsewhere.

The modern central area dates from the coming of the railways; the major changes which occurred before 1939 were the filling in of the Queen's Dock to form a town

garden whose shape has yet to be fully realized; this bold measure was inspired by a local architect, the late Sir Alfred Gelder, whose name has been perpetuated by being given to one of the prominent streets in the city—it is rare indeed that one finds a street called after an architect! The other change was the layout of the wide street Ferensway, between Paragon Square and Beverley Road; a development which had not been fully absorbed pre-war.

Post-war reconstruction marks a third phase in the life of the Central area. Bomb damage and destruction in this area meant far more than the net loss of property to the citizens of Hull; it led to financial losses through the diversion of spending power elsewhere, loss of rateable value, and last, but not least, the impoverishment of civic and social values. Right from the start the core of all discussions on reconstruction was the rebuilding of the shopping centre; shall it be on a new site to the south-west of Paragon station where a large cleared site was available, or shall it be created piecemeal around Prospect Street where people were accustomed to shopping? In the end the protagonists of the latter school won the day. Once this issue was agreed, another had to be faced: that of whether rebuilding should be on a leasehold (the property being acquired by the Council and leased) or freehold basis. As events have worked out for the first building to be finished, Festival House, the Council acquired the land and erected the building; a later development has been Ravenscroft, where the Council acquired and then leased the site only. A more recent development has been the Triangle Trust, representing a combination of leasehold and freehold interests, both public and private, who have collectively acquired land or have pooled interests, agreeing,

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Opposite page, the proposed Technical College for Hull, designed by Frederick Gibberd. It will be sited at the east end of Queen's Gardens (see page 8). The model is seen from the west, with the Wilberforce monument incorporated in the main entrance court, which extends from the Gardens up to the ten-storey central block. Covered ways, linking the blocks, define the central and two garden, or cloister courts.

Right, Queen's House, Hull, a block of shops and offices built by Ravenscroft Properties, Ltd., and designed by Donald Hamilton, Wakeford & Partners. Above right, the same building, shown in relationship to the City Hall on the extreme left. The slightly concave curve of the end of the block forms an indecisive feature in Queen's Square. Above, the internal corner of this block, showing overshadowing in the acute angle formed.

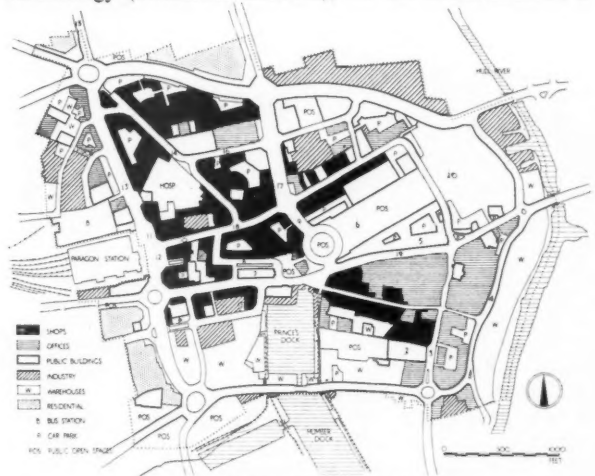


if necessary, to an exchange of sites to enable a comprehensive building scheme to be planned for this site. It is thought that this administrative and financial arrangement to promote improved planning is one of the most notable schemes of its kind in the country; that it should have occurred in Hull is a very encouraging sign.

As elsewhere, a further complicating factor in the planning of the Central area has been the additional expense to which a building owner may be liable if he agrees to transfer a site and becomes eligible under the war damage Act to receive a value payment rather than a cost-of-works payment. Hammond's large store has been rebuilt (partially so only) on its former site. It has been said that in Hull there have been many people who were not willing to fall in with a plan because of possible loss through value payments. Architecturally, owing to the scattered disposition of the sites, there is little sense of cohesion between one new building and another and neither is there between new and old buildings which are to be more or less permanent neighbours. Superficial neighbourliness is not in itself an asset, but the basic qualities of scale, fitness to site and a character of robustness which seems to be so right in this "North-East Port" might be expected, as they are found in some of the older buildings of Hull, the Guildhall (Sir Edwin Cooper) or the more modest Ferens Art Gallery, or even the trifle idiosyncratic Docks offices. A confused public taste, harshness of modern economics and timidity in the architectural profession have played their part.

This third phase in the development of the Central area will take on a new character when the plans for Queen's Gardens are realized. This vast open space is still shape-

less, out-of-scale with neighbouring built-up areas and lifeless, and its virtues are not likely to be realized until it is firmly enclosed at the far end by the proposed College of Technology (Frederick Gibberd), on the north flank by a



- KEY
- |                         |                       |                            |
|-------------------------|-----------------------|----------------------------|
| 1. Old Town.            | 7. City Hall.         | 14. Prospect Street.       |
| 2. Holy Trinity Church. | 8. Ravenscroft.       | 15. Beverley Road.         |
| 3. Market place.        | 9. Triangle Trust.    | 16. Albion Street.         |
| 4. High Street.         | 10. Festival House.   | 17. Bond Street.           |
| 5. Guildhall.           | 11. Hammonds.         | 18. Jameson Street.        |
| 6. Queen's Gardens.     | 12. Seaton Buildings. | 19. Alfred Gelder Street.  |
|                         | 13. Ferensway.        | 20. College of Technology. |





new police station and other public buildings, and on the south by an enlarged Guildhall.

Another sign which it is also encouraging to see is that the local authority is on its own account taking steps to remedy a deficiency in the 1947 planning Act which enables a local authority, by a preservation order, to prevent a historical building being pulled down but does nothing to enable an authority to stop it falling down. In the Kingston upon Hull Corporation Act a clause has been inserted to enable the Corporation to contribute if it thinks necessary to the cost of maintaining a building for which a preservation Order is in force. A praiseworthy step, indeed. A case in point is the well-known Master's House in the old town.

#### railways and roads

The flatness of the city has been the cause of the present weakness in its communications system by rail and road. Roads are congested by no less than sixteen level crossings, some of them on the main arteries. In a city whose functions embrace a port serving a wide area of the north and Midlands for the import of food, raw materials and general cargo and for exports of coal and manufactured goods; a fishing port for long distance trawlers; and a manufacturing industrial and a shopping centre for a wide area of the East Riding and North Lincolnshire, the effects of such interruptions to the flow of traffic can readily be imagined. Fortunately, owners of the last railway line to be constructed in Hull, the concentric high-level Hull and Barnsley line [1880] had the foresight and courage to build at about 16 ft. level, thus passing over the radial lines of earlier builders (see plan). Had they not done so, the ensuing road congestion does not bear contemplating. One of the effects of the complicated pattern of radial and circular railways and radial roads is that many awkward shaped pockets of land have been formed. In addition, conditions are made worse by the long lines of the open drains, a feature of the local topography.

One of the boldest and far reaching proposals in the Lutyens-Abercrombie plan was the suggested solution to the level-crossings problem. The proposal was the

placing of all the railways penetrating the City on to a single, widened, high-level railway ring. The realization of this bold suggestion would have conferred many benefits to the city. At one time it seemed that the major parties entailed approved this solution but when the railways were nationalized, the proposal was doomed to failure. In its stead, a piecemeal solution has been propounded for dealing with level crossings, which involves the abandonment of five level crossings by the construction of road over rail bridges and their long approaches, and the abandonment of a further five level crossings by the diversion of parts of the low-level system on to the high level railways. Complementary to this proposal are a system of ring roads designed to improve connections between radial roads. How far even this greatly reduced scheme is likely to be carried out within the period of the plan, anyone would be foolish



Road and rail proposals.

to prophesy. Our interpretation of local feelings is that these proposals are looked upon as pious hopes.

#### population grouping

In 1949 the population of Hull was 298,000; by 1971 it is calculated that this figure will be reduced to 278,000.





Opposite page: part of Hammond's department store in Paragon Square, at the south end of Ferensway, designed by T. P. Bennett & Son. Above, Smith and Nephew's factory in Jackson Street, Hull, designed by W. S. Atkins and Partners, consulting engineers.

The implications of this become apparent when it is realized that the natural increase of population in the city (8.8 per cent.) is greater than the national average (5.0 per cent.) and has been so for many years. But for migration

it is calculated that the city's population in 1971 would be 348,000.

Unemployment is at double the rate of the national average because of increasing demands for jobs by a predominantly young population. The plan is made on the assumption that there will be an outward migration for the twenty years (1951-71).

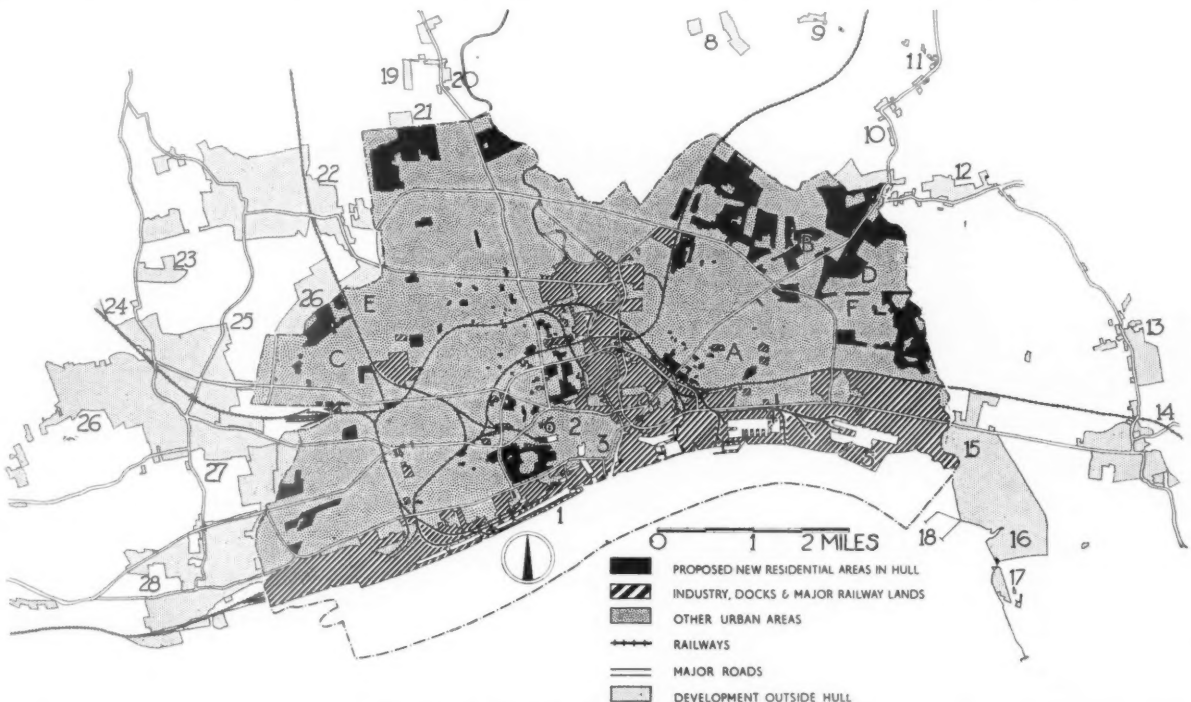
Even so, the population would still be about 304,000 if provision were not to be made for housing a further 26,000 people outside the city boundaries. The need for planning this overspill of 26,000 is because of the shortage of land within the city to house more than 278,000 after the worst effects of housing shortage have been overcome and a certain amount of redevelopment has been done.

The housing programme for this period provides for accommodating 81,800 people: 19,000 in redevelopment areas; 36,800 on additional land within the city boundary (on virgin land and by infilling); and 26,000 as already mentioned, in the region outside the city boundary.

In 1951, the housing allocation was 600 houses, but the fulfilment of the plan depends on house building being speeded up progressively to 1,500 houses annually by 1956. If this is achieved, it is expected that slum clearances can then be renewed; if it is not, then redevelopment may have to be postponed for many years.

How far has the city's housing programme so far been speeded up? Last year 1,240 houses and flats were finished and this year the programme is for 1,285, 262 being finished in the first quarter.

Apart from people living in the city, there are people living in suburban spurs to the west in Haltemprice urban district (35,500) and to the east in Hedon urban district (5,950), many of whom work in Hull: the usual case of better off people choosing to live in a pleasanter environment. To the north, the almost perfect little country town of Beverley (where trawlers are still built, and floated down



Proposed development within Hull and outside the boundary.

- 1 Albert Dock.
- 2 Central Area.
- 3 Old Town.
- 4 Alexandra Dock.
- 5 King George Dock.
- 6 Paragon Station.
- 7 River Hull.
- 8 Bransholme (Sewage)
- 9 Swine.
- 10 Gastead.

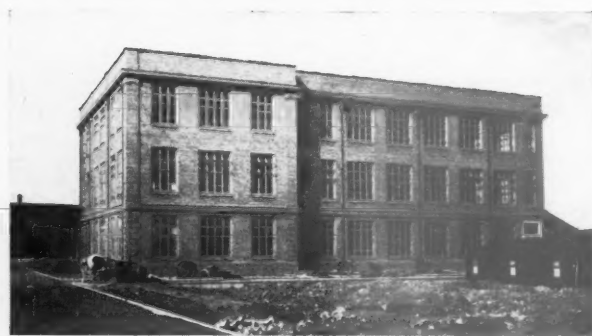
- 11 Coniston.
- 12 Bilton.
- 13 Preston.
- 14 Hedon.
- 15 Hay Marsh.
- 16 South Pasture.
- 17 Paul.
- 18 Salt End Jetty.
- 19 Waterwor.
- 20 Dinswel

- 21 Secondary School.
- 22 Cottingham.
- 23 Sanatorium and Mental Hospital.
- 24 Willerby.
- 25 Haltemprice.
- 26 Kirk Ellen.
- 27 Anlaby.
- 28 Hessle.
- A Southcoates Lane Estate (286 dwellings).

- B Cellfield Avenue Estate (274 dwellings).
- C Priory Road Estate (184 dwellings).
- D Bilton Grange Estate Extension (2,094 dwellings).
- E Bricknell Avenue Estate (500 dwellings).
- F Marfleet Lane Estate (122 dwellings).



Above, Festival House, Jameson Street, designed by C. Gowles-Voysey and John Brandon-Jones. It was the first building undertaken by the Corporation in their programme for the restoration of the central bombed area of the city. Commenced in September, 1950, it was finished in February, 1952. Construction: r.c. frame with Hornton stone ground-floor facings and brick and stone facings above. Heating: low-pressure hot-water radiators, with gas boilers on the roof. Since the war, University College, Hull, has begun a considerable building programme. A wing has been added to the existing Arts Building, and a Students' Union built, below, with common rooms and a refectory to seat 400. Bottom, the first stage of the new Chemistry building, now nearing completion. Architects: W. A. Forsyth & Partners, of London.



the River Hull on the outgoing tide), fortunately appears to be spared these suburban trends.

An indication of how the middle class do not favour living in Hull is that private house building in Hull is going very slowly. In the first quarter of this year only about 24 licences for private houses were issued. Whether in time the social balance could partly be restored by the redevelopment of the once prosperous Avenue area (south of the high-level ring) in park-like surroundings as an inducement to the higher-income groups to return is a point which appears to be well worth while considering.

#### conclusion

In this short article on the background to building in Hull we have so far only briefly discussed three aspects of planning in this city and we cannot finish without at least mentioning a few other aspects.

Because of the flatness of the site and the nature of the subsoil, the drainage of the city has always called for special measures. Their cost is being brought home today to the ratepayer who is having to contribute to the cost of re-sewering the city completely. This programme, which is likely to take about 15 years, is under the direction of the City Engineer (William Morris). It is probably the first time that an English city of comparable size has been re-sewered in one programme.

In passing, it is to be noted that the city boundary extension scheme is still open.

We have already referred to the Docks reconstruction. The Docks Executive has three aims in immediate view: (1) one is the re-craning of the large King George Dock at a cost of almost £1,000,000; (2) the construction of a third jetty at Saltend to assist the loading and unloading of large tankers; (3) an immediate programme for the rebuilding of the blitzed Riverside Quay and South Side of Albert Dock, at a cost of £1½ million. The new Riverside Quay will be 1,235 ft. long. Important bearing as this will have on the operation of the docks, the citizens of Hull will also gain. The main outlet to the Humber is the pier. A once favourite pastime on a Sunday afternoon among Hull people was a walk through the old town to the pier and then along an overhead promenade between the Albert Dock and the Riverfront; it was the best way by which the glamour of the shipping could be seen. In the new scheme a modified version of this former promenade may be built, though it is unlikely to offer the same fine vantage points of the former one. As this scheme is realized, possibly the railway people will be spurred into doing something about the derelict area around the adjoining goods station.

Industrially, one of the tasks, as one would expect, is the gradual transference of scattered workshops and small factories into modern premises on industrial estates. A weak point on the industrial side of planning, however, appears to be a shortage of really large sites (100 acres or more) within the city to meet the needs of the modern large scale production, or storage units. There is a tendency for large scale industry to be developed down-stream.

Like other cities, Hull experiences a shortage of land for playing fields and school sites. No less than 245 acres of land has had to be found outside the city boundary for playing fields to secure a minimum of 3 acres per 1,000 population and a further 407 acres for additional sites for schools serving children over 11.

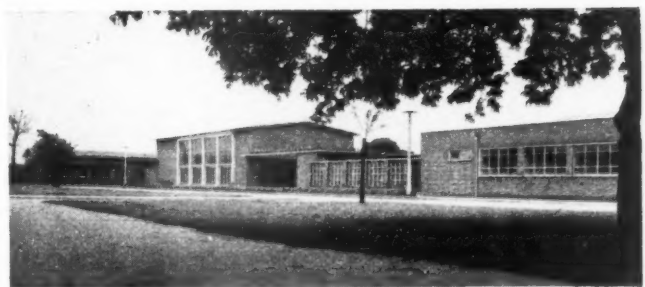
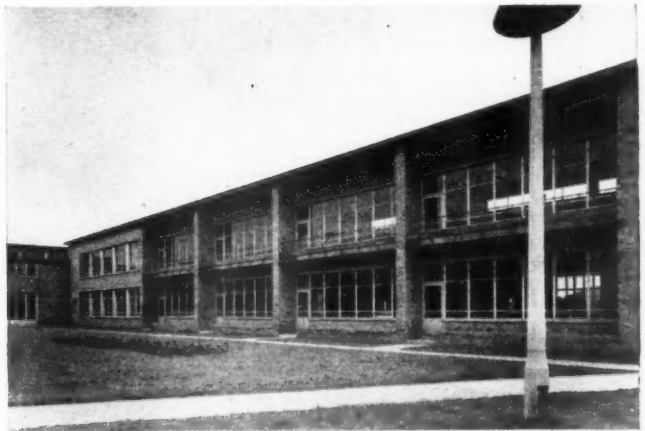
It is pleasing to record that once the years of argument and indecision were passed, planning in Hull progressed at a good speed. As a county borough, the City Council was responsible for formulating its own survey and development plan which was prepared by the then planning officer, Aylmer Coates, and was submitted in June, 1951; Hull being among the first ten authorities to do so. We understand that unofficially it has been said the Development Plan meets with general approval.

It will be interesting to see in 1971 how far the aims of 1951 have been fulfilled.



### CITY ARCHITECT'S DEPARTMENT, HULL

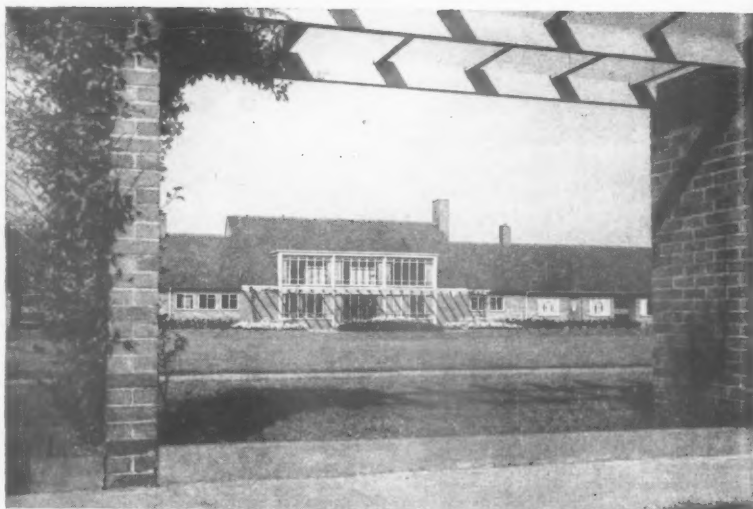
**ANDREW RANKINE.**—City architect, since 1939, of Hull. A lowland Scot, born in Clackmannan, he was articled to a firm in Alloa and attended the technical classes at the Heriott Watt College, Edinburgh, for lessons on building construction. In 1920, in answer to an advertisement, he came to Hull and obtained a job as junior assistant to John Bilson, who specialized in ecclesiastical and bank work and expensive private houses. Bilson was forced to give up practice due to ill-health, so Rankine went into the Hull City Architect's Department under David Harvey. From 1926 to 1939 he taught theory of design at the Hull School of Architecture. Unmarried—called the most eligible bachelor in Hull—he retains just a trace of a Scottish accent, and rather more than a trace of dry, pawky, humour. Modest about himself he is full of praise for his staff—whom he calls his "backroom boys," and whom he swears he would not swop with any authority. Such confidence is borne out by the quality of the work from his department. The five schools illustrated here are typical of the nine built since the war. Below, the junior department of the Bricknell Avenue School. Right, from top to bottom: junior and infants' departments of the Francis Askew School, junior department of the Cavendish Road School, junior department of the Wold Road School, and the two-storey classroom wing and assembly hall of the new Grammar School, in Bricknell Avenue.





# CITY ARCHITECT'S DEPARTMENT, HULL

The city has built over 8,000 houses since the war, which, judging by the size of the town, is a commendable figure. The quality of the housing varies from mere competence to good. Such faults as there are are more attributable to faulty planning and road layout than to the buildings themselves. For example, at the bottom of the page is a view of part of the Bilton Grange Estate, on the east side of the town, with, in the foreground, a roundabout which is built on a colossal scale for a mere residential road. Below, typical semi-detached houses and two-storey flats. Right, homes for old people (see JOURNAL for November 9, 1950) and below, right, three-storey flats (see JOURNAL, for April 12, 1951), both in the new Bricknell Avenue estate in the north-west of the city, and both commendable for simple, straightforward design, carefully laid out.









**WORKING DETAIL**

**FIREPLACE: HOUSE AT BEDFORD**

*Ian Warwick, architect*

**HEATING : 8**



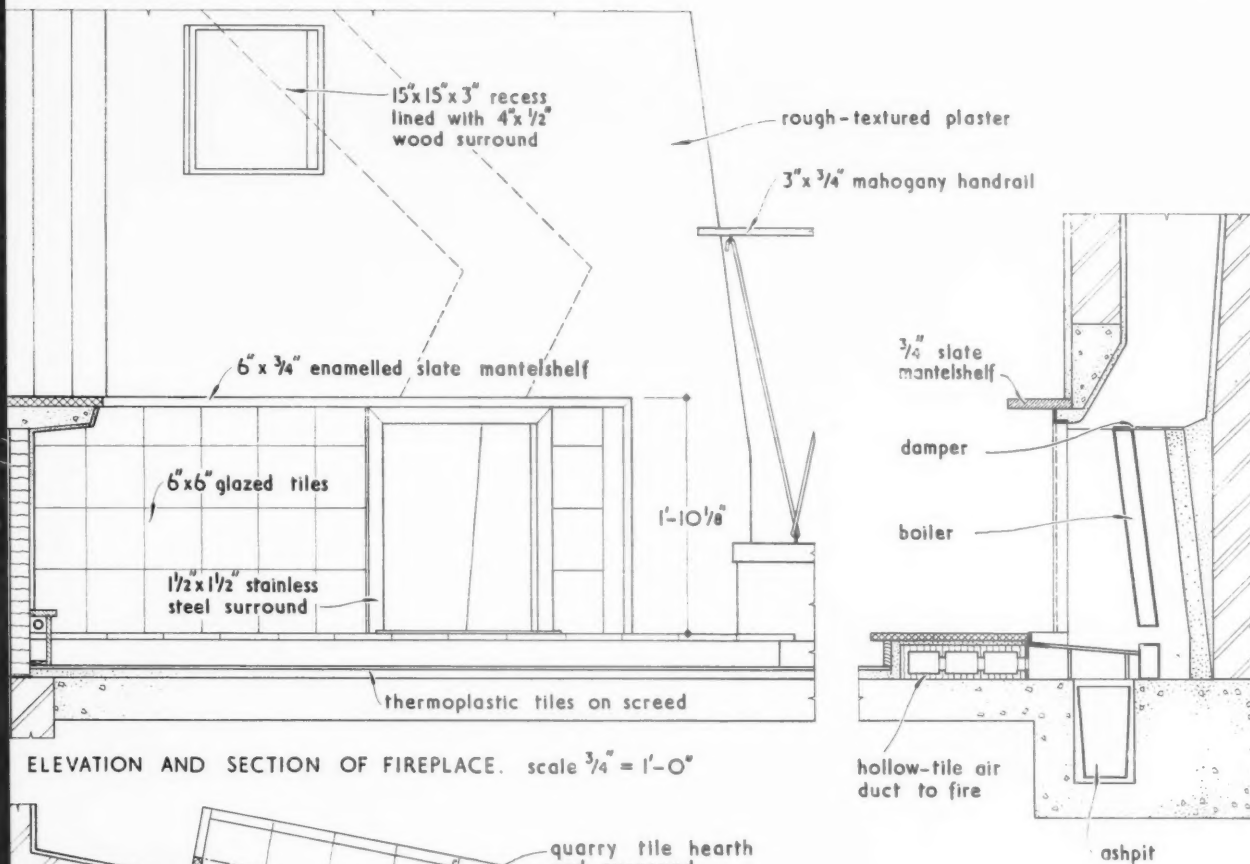
*The open fire in the living room is used to provide hot water and the stove behind it, at a higher level, to warm the dining room*

# WORKING DETAIL

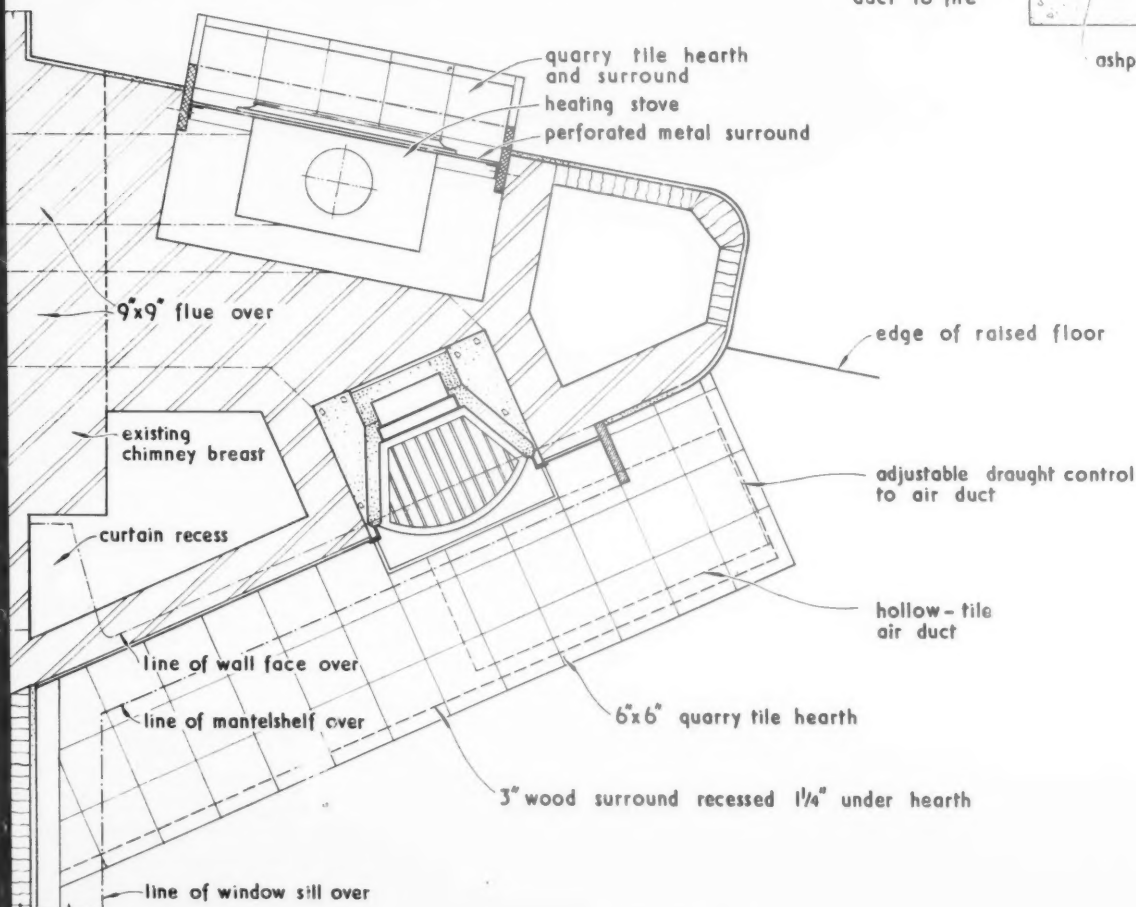
FIREPLACE: HOUSE AT BEDFORD

Ian Warwick, architect

HEATING : 8



ELEVATION AND SECTION OF FIREPLACE. scale 3/4" = 1'-0"



PLAN OF FIREPLACE. scale 3/4" = 1'-0"

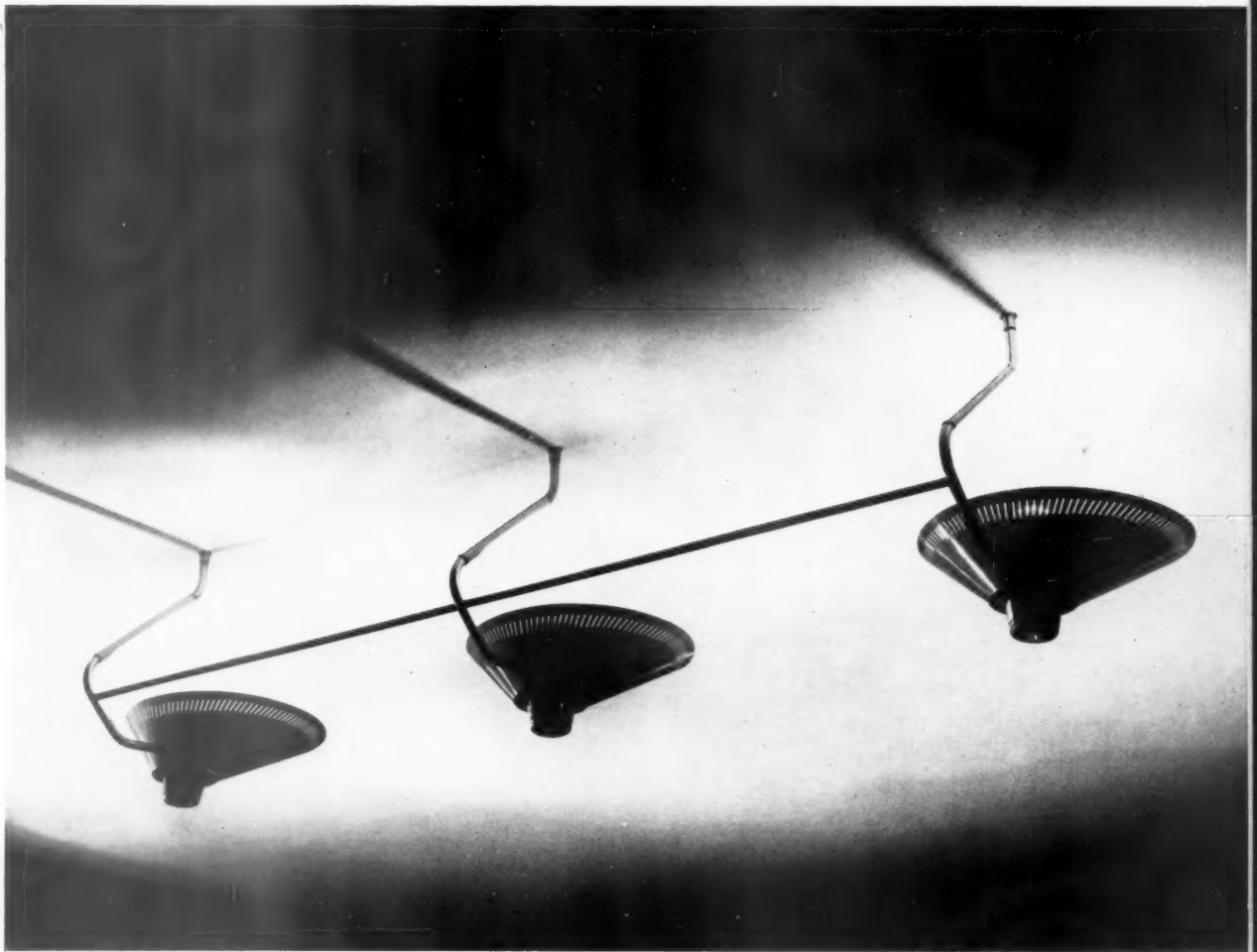


## WORKING DETAIL

LIGHTING : 4

LIGHTING FITTING: STAIRCASE HALL, OFFICES IN LONDON, W.1

*Sir Hugh Casson, in association with Misha Black and Ellis Miles of Design Research Unit, designers; Michael Rosenauer, architect to the building*

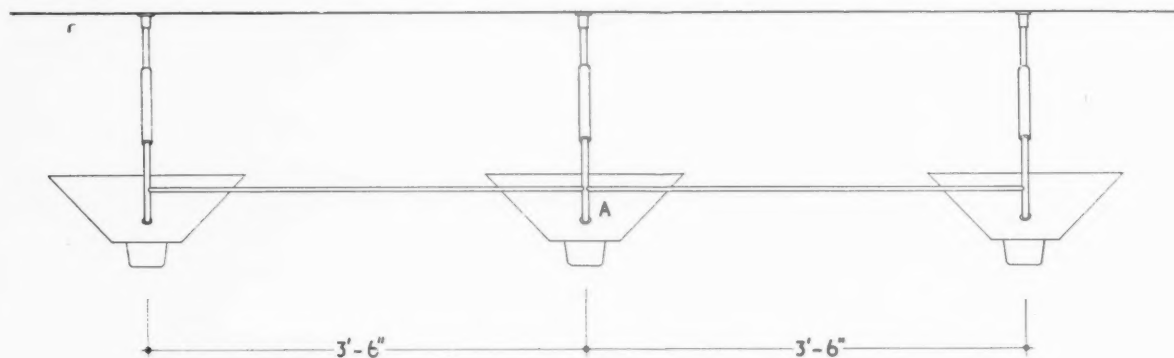
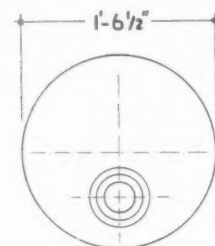


*The supporting tubes of the fitting are of polished brass with the exception of the large tubes which have a white cellulose finish*

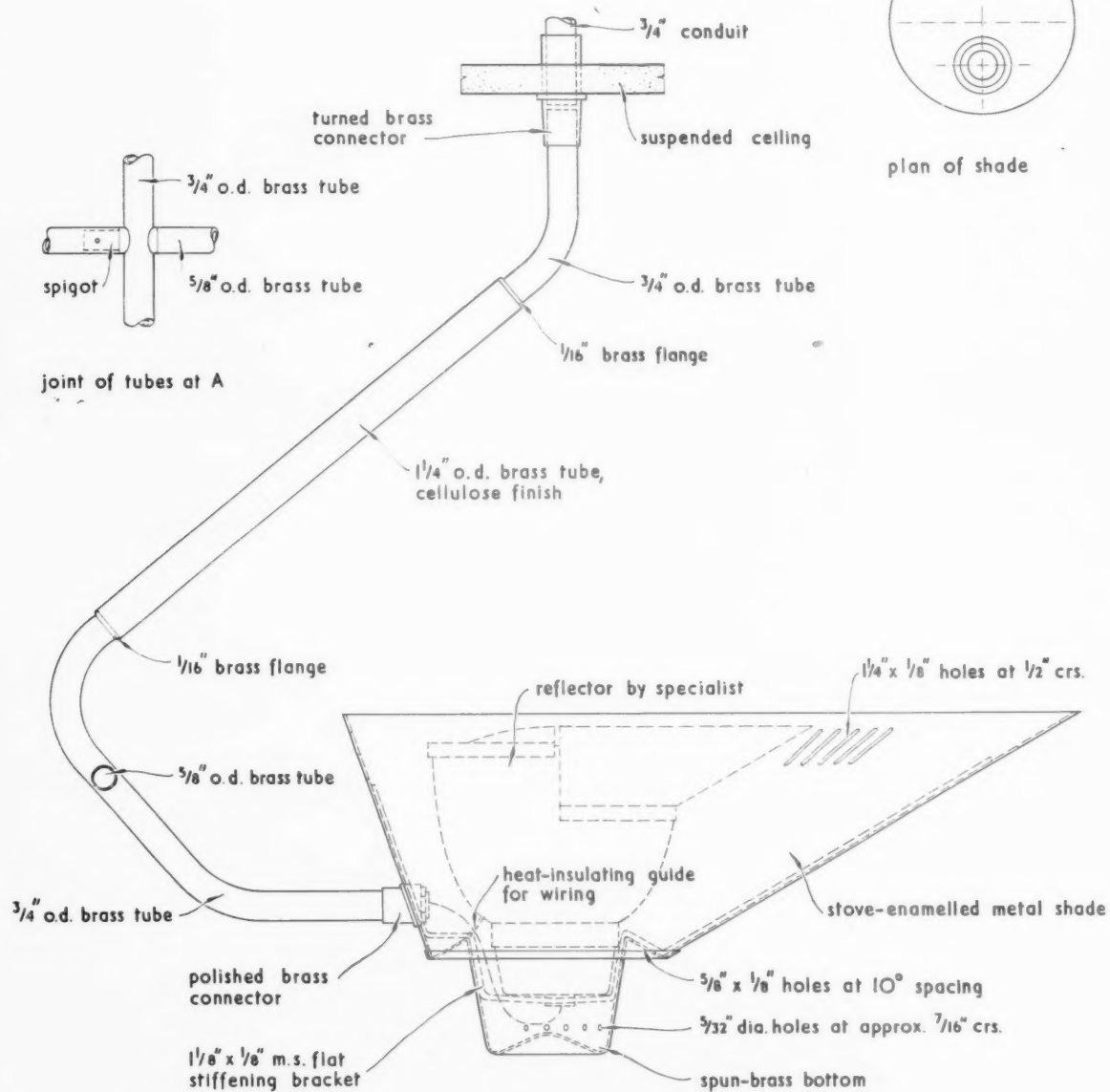
## WORKING DETAIL

LIGHTING : 4

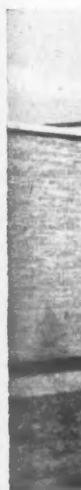
LIGHTING FITTING: STAIRCASE HALL, OFFICES IN LONDON, W.1

*Sir Hugh Casson, in association with Misha Black and Ellis Miles of Design Research Unit, designers; Michael Rosenauer, architect to the building*ELEVATION OF LIGHTING FITTING. scale  $\frac{3}{4}" = 1'-0"$ 

plan of shade

DETAIL OF FITTING. scale  $\frac{1}{4}"$  full size



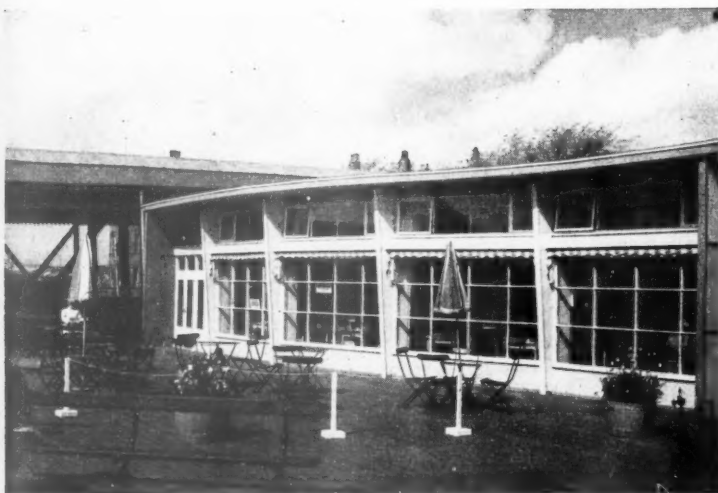






## CITY ARCHITECT'S DEPARTMENT, HULL

The standard of design of all buildings in the City Architect's Department compares favourably with other cities. The temporary shops, bottom of page, are of an exceptionally high standard, as are the little local police stations attached to the new housing estates, left, and the well-detailed home for aged people, above, called Hugh Webster House. Below is a temporary extension to the technical college, and below, left, is a less satisfactory design, the Pier Café. In itself an inoffensive building, with a rather pretentious "piano-curve" glazed wall, it is out of key in character with the slender iron-work of the pier and oddly sited so as to cut off the already limited view of the river front from the passer-by.



*On the following twelve pages are illustrated some of the post-war buildings designed by the principal architectural firms in Hull. Wherever possible the examples shown are also in Hull. In a few instances the work is from outside the town. Also included are some brief biographical notes and a short introductory article, below, giving some first impressions on Hull and its architects.*

## PRIVATE ARCHITECTS AND THEIR POST - WAR WORK IN HULL

THE citizens in Hull, and particularly the architects, seem to need the treatment of a mass psychiatrist—if there is such a thing. They suffer from the delusion that they are cut off from civilization—a little sprawl of urbanity surrounded by the Humber and the dangerous sea of the Yorkshire Wolds. As a result of this isolation they repeatedly claim that the town is behind the times, neglected by the Government and ignored by the nation. Nobody ever comes to Hull, they say, because it is not on the way to anywhere—as though the town itself is not sufficient justification for a journey. And the town is diddled out of its fair share of building licences and materials, they claim, so of course its recovery from the war is hopelessly handicapped. It would be interesting to know if other towns, in similar geographical positions, suffer from the same illusions. Do the citizens of Torquay, Plymouth, Ramsgate and Liverpool feel cut off from the rest of the country, and done out of their birthright?

### hull townscape

Architecturally, Hull has not a great deal to offer. The old MOLGP managed to scrape up 284 buildings for the three grades of buildings of "Architectural or Historic Interest," but they are sufficiently inconspicuous, and scattered, to make no marked impression even on an eager and sympathetic visitor. (Incidentally, 95 will be savaged by the planning proposals.)

Those attracted by the details of townscape and floorscape which are so frequently pictured in the *Architectural Review* are slightly better off. The nautical tradition has left a half-erased mark, and the city is the richer for it. The finest feature is the superb eighteenth and early nineteenth century warehouses and dock buildings. One or two are well worthy of the rank of "buildings of architectural interest" and compare favourably with the more famous dock buildings in Liverpool. The connoisseurs, yet to come, of Victorian, Edwardian and post-1914 war speculative building will, eventually, find some material to work on, too, no doubt.

By and large, the city is an ugly place. The brown Humber estuary is hardly an attractive outlook, and the narrow, smelly channel of the river Hull which winds through the centre of the town is the most miserable stretch of water (though flowing with liquid gold as far as traders and ship-builders are concerned) which it is possible to imagine. One must beat one's brains to find visual things to praise in Hull—the dock buildings and the ships, of course, and Trinity House, the ironwork in Paragon Station, Wilberforce House, and the odd Georgian relic still standing in the Old Town, some of the City Architect's work perhaps, a factory, but little, terribly little, whose praises one can wholeheartedly sing. Except, of course, for Beverley (which is not Hull at all, but a town five miles away), which is Hull's Grantchester, and very nearly perfect.

The few beauties the town possesses the townspeople are quite ready to despoil. The most ardent defender of Hull's old buildings and its appearance is one Col. Rupert Alec-Smith, who, at the last annual dinner of the York and East Yorkshire Architectural Society, attacked, with an eye on the representative of the local paper, to make sure he took it all down, the badly designed street furniture and the

festoons of "knitting" (wires) which littered the townscape. Col. Alec-Smith, as a member of the Georgian Group, was also an active supporter of the proposal to restore a delightful eighteenth-century room in a house in Beverley for the purpose of using it as a committee room for the Town Council. This harmless proposal aroused intense opposition, and, according to one councillor, had made the Council the laughing stock of the East Riding. The room—which boasts a fine hand-painted wallpaper—has been restored, and was opened in April, so virtue won the day, but only just, and only after two years of argument.

### the school

There is a five-year architectural school in Hull—part of the Regional College of Art—which, with sixty students, is a flourishing concern. A recent head was Dr. J. L. Martin, now architect to the LCC. The present head is Alexander Potter, who has a staff of four. Potter, born in Derby, and trained in Sheffield, worked with the Southern Railway and Sir T. P. Bennett before starting to teach at the Liverpool School—from where he moved to Hull. Author of two Puffin books, he keeps a flat in London to enable him and his wife to continue studying and writing, and he also has a small farm in Wales. Such wide interests are reflected in his teaching methods, and each design subject given to the student is linked with historic studies, and all other related subjects, as town planning, lettering, legal and byelaw problems, landscaping and planting, to name a few. The result of this integration of all theoretical subjects with a practical design problem—carried rather further than is usual in most schools—should augur well for the future success of the students.

### the local chapter

Hull architects do not seem very sociable. Perhaps one reason is that they lack any form of permanent headquarters. If it would help them to get together and resolve their differences it might be to the eventual advantage of the town to give them a room in which to meet—in, say, the restored Master's House. For there are differences, and jealousies, which are immediately apparent to the visitor, and it would contribute immeasurably to the strength of the profession in Hull if the architects could talk them over once in a while.

Hull feels cut off. One thing which supports the notion is to be told of architects in the area who are also estate agents and auctioneers. Providing they were practising these pursuits prior to the Registration Act, they are, of course, at liberty to do so until 1956. These combined rôles are but a passing phase in the evolution of a profession, but, oddly enough, there seem to be more examples of this kind of office than in other towns. At any rate, other architects are often only too eager to draw one's attention to them.

Hull architects, many of whom are individually charming and kind, give as a body an impression of being somewhat offhand and churlish. Hard words, perhaps, but the one architect of whom a visitor heard only praise by his fellow professionals was kind and learned Dudley Harbron, and he, alas, is now dead.

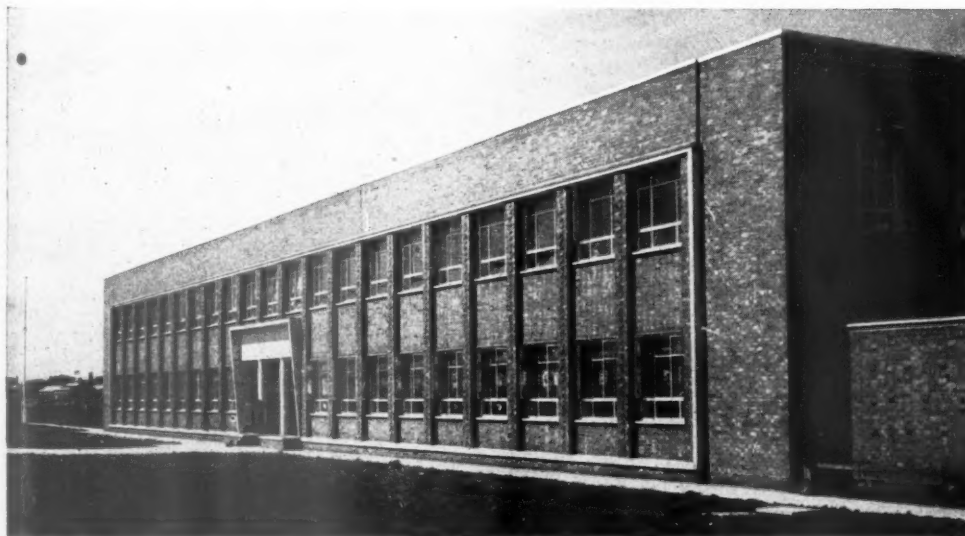
# PRIESTMAN AND LAZENBY

architects in private practice in HULL

**A. LAZENBY.**—Left, Chairman of the Hull chapter of the York and East Yorkshire Architectural Society, in which capacity he was a very great help to the authors of this article. A Hull man, born and bred, he has all the virtues of the Yorkshireman and no trace of the vices. Blunt as all Yorkshiremen, he tempers this forthrightness with kindness and great good humour. His introduction to architecture was not, perhaps, a very happy one. On leaving school he made a snap decision to become an architect and became articled to the firm of Gelder & Kitchen, under the great and alarming Sir Alfred Gelder. He left, on qualifying, to work in the Hull City Architect's office. Seven months later, tired of the endless chain of delegated responsibility in public office, he went into a private office. On the outbreak of war joined the Royal Engineers and went to India. After the war went back to Hull, and after a time with the MOW put up his brass plate and waited. Then, two years ago, he was asked to join forces with . . .

**H. D. PRIESTMAN,** another Hull man. Trained at the Hull School, he was first senior assistant and then junior partner (1935) of the firm of Wellsted, Dosser & Wellsted. The two principals died during the war, and the office was blitzed, so Priestman returned after the war to a practice which had disappeared save for some drawings which had

been preserved in tin boxes. He is married, plays "very bad golf," and tries to paint in oils. He was on holiday when our photographer called, so his portrait cannot be shown. He is Senior Vice-President of the York and East Yorkshire Architectural Society, and is the senior partner in the firm.



Top left, engineering works for Messrs. Priestman Bros., Ltd. (consulting architects, James Monro & Son), designed by H. D. Priestman before the present partnership and, left, a factory for the Imperial Typewriter Co., Ltd., designed by Priestman & Lazenby.





## GELDER AND KITCHEN

architects, surveyors and valuers in HULL

**Sir ALFRED GELDER.**—Who died in 1941, was one of Hull's most eminent citizens and architects. Five times Lord Mayor, an MP, and knighted for his public services, he was responsible for several town planning proposals during his terms of office and one major street has been named after him. The son of a carpenter, energetic, forthright and tough, he started the firm in 1880, designed Rank's first mill, the offices in which the firm still works, and many other large buildings. The first blitz resulted, in his own words, "in a lifetime's work gone." Twenty years earlier, he was heard to say, he could have started again, but now it was too late. And so it proved, for within a few months he was dead. His son, Edward Gelder, retired in 1942 and his partner, Llewellyn Kitchen, once an assistant, died in 1947. The firm is now run by . . .

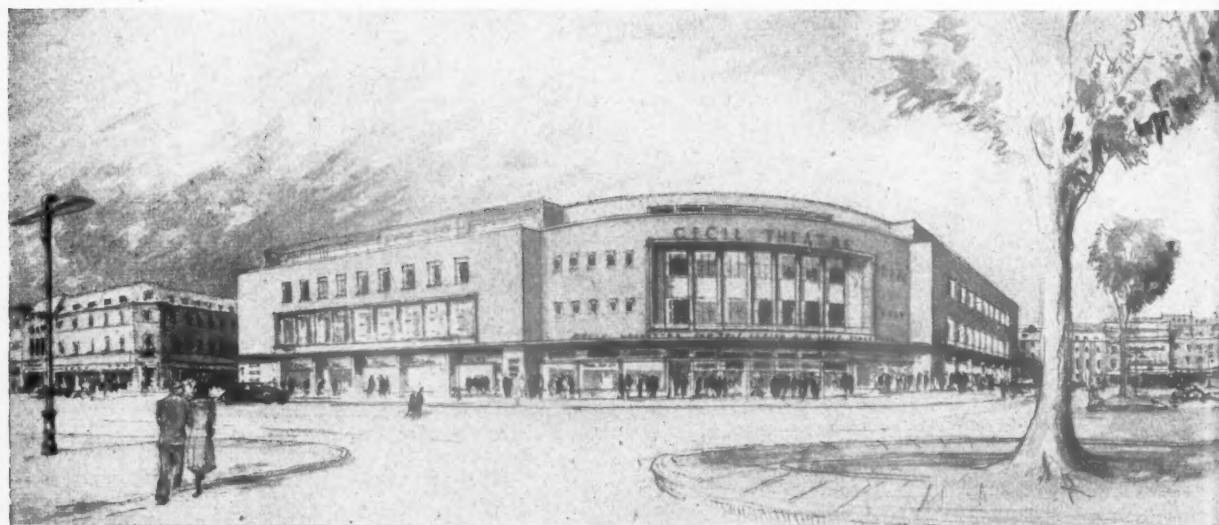
**H. CONYERS ROBINSON.**—(Nearest camera) who joined as a pupil in 1924. A Hull man and a grand nephew of Sir Alfred. In his spare time he sails a motor cruiser on the Ouse.

**JOHN P. TAYLOR.**—(Centre) who had distinguished service with the RE during the war, and became Assistant Director of Works to the Chief Engineer in Italy. He is also an accomplished Yorkshire county tennis player.

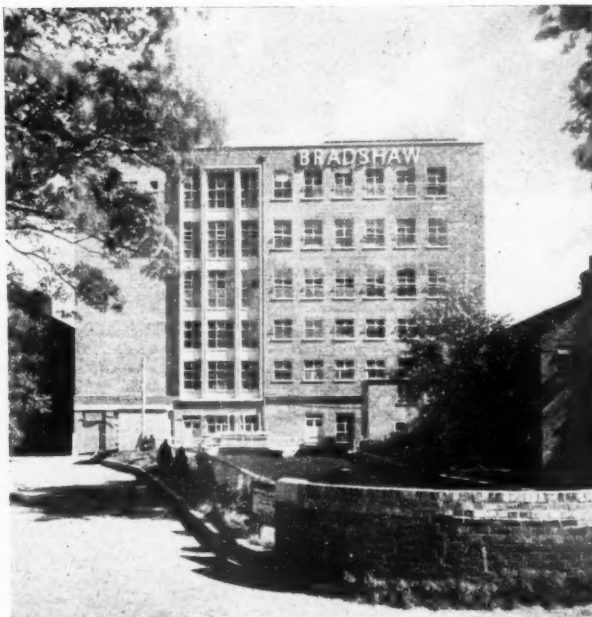
**DOUGLAS POTTER.**—He came as an office boy in 1933, becoming chief assistant after the war and a partner in 1947. He has just qualified. In the RE during the war he is fond of music and sings in his church choir. The firm runs its own cricket team. In the team's last match against the City Architect's office it lost by two wickets.



Left, sketch of building for the Triangle Development Trust, for which Gelder & Kitchen are the co-ordinating architects. Below, a proposed cinema in Hull.







Left, reconstruction and extension to Clarence Mills, Hull, and, right, the rebuilt Bell Mills, at Driffield; both by Gelder & Kitchen.

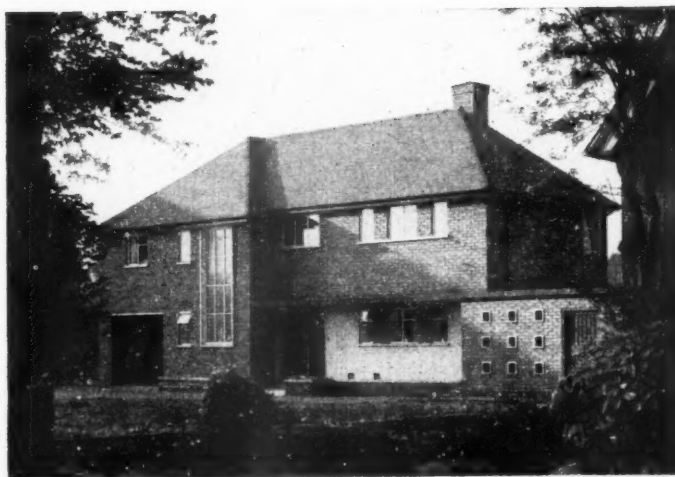
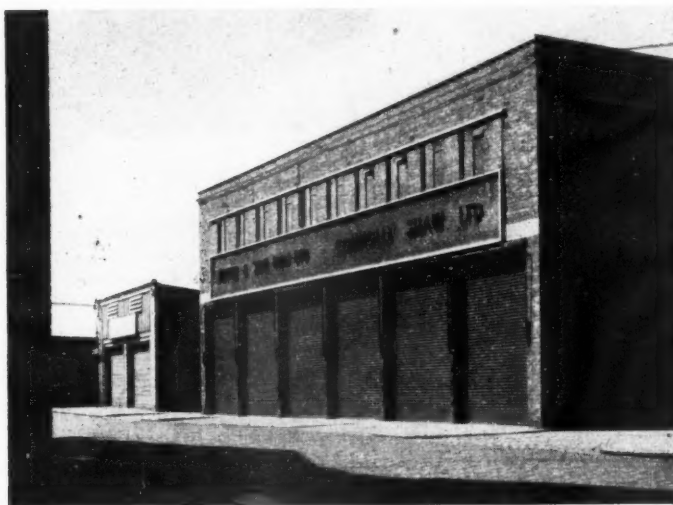


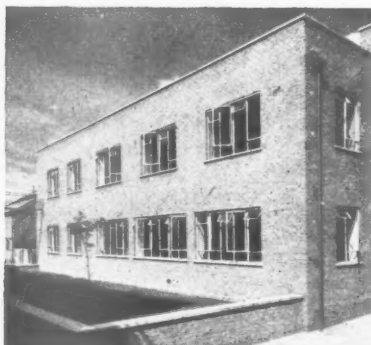
## W. B. BLANCHARD

architect in private practice in HULL

**W. B. BLANCHARD.**—Principal of the firm, above, commenced practice in 1907, after being articled to T. Brownlow Thompson, of Hull.

**B. W. BLANCHARD.**—Son of the principal and a student of the RIBA. Went to the Hull School of Architecture and completed his five years in 1951. Has yet to finish his thesis. Two recent buildings by this firm are shown: above right, a fruit salesroom in Humber Street; right, a house in Cottingham Road.





## A. C. BLACKMORE & SON

architects in private practice in HULL

**JOHN BLACKMORE.**—Son of A. C. Blackmore, bottom, pre-war architect of ten of Hull's cinemas, who runs a



separate office as well as being in partnership with his son. John Blackmore was sent south to be educated (at King's School, Canterbury), and to the AA. He is the only AA-trained architect in Hull. Young, married, with three children, all boys, he lives in a typical Victorian house in fading Westbourne Avenue. His AA training is stamped on the redecorated interior of the house, and he only needs a tolerant client to show the town what is meant by "the modern movement." Left, two recent buildings: top, and centre, two views of a single-storey house at Hornsea, and centre right and bottom, two views of a factory for Story Smithson, Hull.





**F. J. HORTH AND H. ANDREW**  
architects in private practice in HULL

**F. J. HORTH.**—Right in photo, a 1904 Soane Medallist, was trained at the Birmingham School, coming to Hull via London. For a time he was assistant to the City Architect of Hull, teaching at the Hull School in the evenings. He went into partnership with Harry Andrew in 1923, but he had previously been in practice on his own since 1919. He lives in Park Avenue, one of the several tree-lined Victorian avenues north-west of the centre of Hull which forms the only remaining good-class residential area near the centre. Horth is an accomplished artist and draughtsman, and the walls of their dark office off the yard of Custom House Buildings—one of the few remaining Georgian buildings of note in the town—are covered with examples of his work.

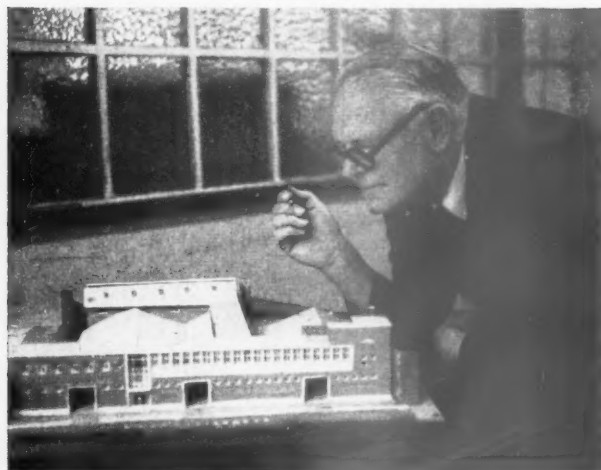
**H. ANDREW.**—Surveyor to Trinity House, he lives in Hessle, outside Hull. With Mr. Horth does most, if not



all, the drawing of designs. The firm rarely uses architectural assistants, following an older tradition of doing all their detailing themselves. Above left, Swedish and Finnish Seamen's churches, on adjacent sites in Bond Street, Hull. The ground floors consist of social rooms, the church halls being on the first floors. All the furniture and timber for the buildings came from the country concerned. Below, a department store in Hull for Edwin Davis & Co., Ltd., Bond Street, Hull.





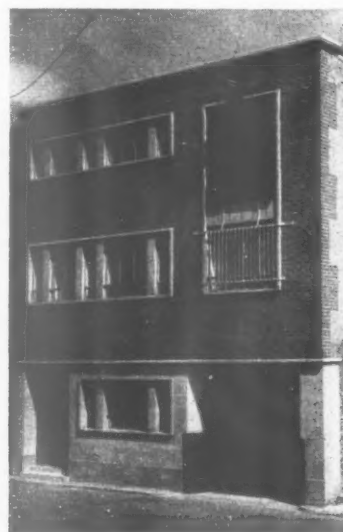


**ELSWORTH SYKES & CO.**  
architects and surveyors in HULL

**W. E. SYKES.**—Left, above, from 1913 until the end of the last war was in partnership with A. C. Blackmore (see page 22) when the latter left. He is a Fellow of the RICS, and is the firm's quantity surveyor as well as the senior partner. In the RE during both world wars, he served, during '39-46, in France, Palestine, Egypt, North Africa, Italy and Germany. He is an enthusiastic golfer.

**RONALD SYKES.**—The son, went to Cambridge in 1940 before

spending 4½ years in the army. After the war he went to the Sheffield School of Architecture, qualifying in 1950, in which year he joined his father's firm. Married, with one son, he is an enthusiast on ciné photography, and has made one or two short films on architecture, getting a special mention in the photographic magazine "Ciné World." Below, left, Seaton Buildings, in Paragon Square, a reconstruction of offices and banking premises, and right, a factory in the High Street. Bottom, left, the Queen Mary Hostel for Fishermen, and right, a tobacco factory and offices in Scale Lane.







## ROPER - SPENCER & HALL

architects and surveyors in HULL

**HENRY ROPER-SPENCER.**—Fellow of the IAAS, he also holds a certificate for deep-sea diving. From Brighton College he went to the Crystal Palace School of Arts and Crafts and as a pupil to Sherton & Easedale, of Victoria Street, London. After Army service in '14 war had three years with Birmingham Corporation before starting on his own in Hull in 1926. He is part-time Borough Surveyor of Hedon. Once a great motor cyclist, he now plays the pianola.

**C. ERIC HALL.**—Was articled pupil and took part-time course at the local Art School. Became chief assistant to Roper-Spencer in 1933 and entered partnership in 1945. Right, offices, showrooms and workshops for a motor cycle company.



## ALLANSON HICK

architect in private practice in HULL

**ALLANSON HICK.**—Right, President of the York and East Yorkshire Architectural Society and the only architect-artist in Hull. Blunt and jovial, and with great enthusiasm, he is a good and witty speaker, save, perhaps, for the chip which he tends to carry on his shoulder. He started by being articled to Wheatley & Houldsworth, then came Army service in the 1914 war and later work with Gelder & Kitchen. In the twenties he went into partnership with the late Dudley Harbron, whom he admired, but from whom he eventually parted. He paints as much, or even more than he designs, getting water-colours hung fairly regularly at the RA. Below, left, a house he has altered at Driffeld, near Hull; and, right, an interior for a tailor's shop in Hull.



# ANTHONY STEEL AND OWEN

architects in private practice in HULL, LEEDS and LONDON

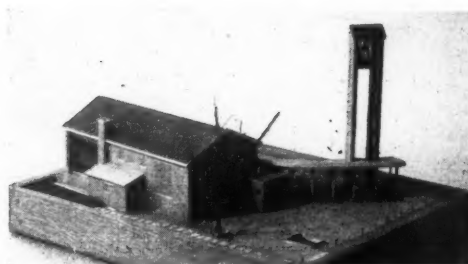
**ANTHONY J. STEEL.**—Qualified at the Newcastle School of Architecture, winning a scholarship which enabled him to study for a time in Italy. He then joined a private firm in Sunderland, followed by a period as assistant on school design for the Sunderland Education Authority. He became Chief Architect to the County Borough of Tynemouth and from there went to the MOW. He came to Hull in the war as the officer responsible for essential emergency work following bomb damage. His function was to assist all industries to rehabilitate themselves after air attack, working virtually as a licensing officer for war-damage repairs. Married, he lives outside Hull in the village of Lockington. He is busily occupied in altering and repairing an eighteenth-century house, removing, at the same time, the Victorian additions. When he manages to stop working on the house he likes to play golf as does his partner . . .

**ALEC OWEN.**—Left of photo, one of two ex-Liverpool students in Hull. He also won a scholarship, which enabled him to get to New York. From Liverpool School he went to Quiggin & Gee, and then transferred to public offices at Birkenhead, Exmouth, Widnes and Leeds. Rejected from the RE on medical grounds, he went to MOW, who sent him to Hull where he met his partner. War-time contacts in and around Hull encouraged the two architects to get together after the war, and they have now one of the largest offices in the area. The bulk of their work, however,



is outside Hull. Below, left, and opposite page, top, housing at Aberford for the Tadcaster RDC, an example of housing design by this firm which has also designed large estates at Beverley and elsewhere. Below, right, part of a County Ambulance Depot at Goole; and bottom, a Call Stand and Medical Centre for the National Dock Labour Board, at Albert Dock, Hull, for which they are associated architects (Architect, A. J. Seal).





## WHEATLEY AND HOULDSWORTH

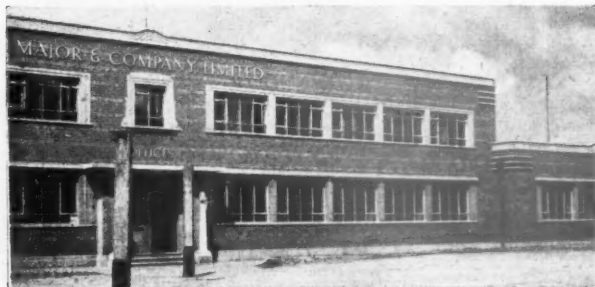
architects in private practice in HULL

**W. B. WHEATLEY.**—Left, the only member of the original firm of Blanchard, Wheatley & Houldsworth which split in 1922. Houldsworth died in 1934, and from that date until 1949 Mr. Wheatley ran the firm alone. He used to play cricket for Hull (but now has started golf), and is a director of the Hull Cricket Club.

**P. E. WHEATLEY.**—Trained for a time at the Hull School under Dr. Leslie Martin. Went to University of Manchester School, in 1939, and passed intermediate exam before being called up into the RAF. He finally qualified in 1948, and became a partner a year later. His sister, Hull and AA trained, was the first woman architect in Hull. She is now married and no longer practises. Below left, the Bridges Hotel, Sutton Road, Hull; and right, offices, workshop and garage for Globe & Simpson (Sheffield Ltd.) in Anlaby Road, Hull. Above, proposed Danish Church, Hull.







## ROBERT G. CLARK

architect in private practice in  
HULL



**ROBERT G. CLARK.**—Above, right, with his son, was born, and articulated, in Huddersfield. He left the town when he was 25 and for a time was architect to Reckitts, in Hull. Decided, after the war, to build a house with his son. Laid 25,000 bricks and built house for £2,000. He laid out the garden at the same time as he built the house, so both were completed together. His son has been attending the local architectural school. Left, from top to bottom: showroom, garage and store in Anlaby Road; offices and laboratories in Fountain Road; and a factory at Marfleet. Below, left, Masonic Hall in Little Park Street and, right, a warehouse in Francis Street.



## J. KONRAD

architect in private practice in HULL



**J. KONRAD.**—By birth a Czechoslovakian, he went to the Budapest Technical University and after the 1914-18 war completed his training in Brno. Qualified in 1922, he worked during the mid-twenties in Paris, being site architect for the Austrian section of the international *Arts Decoratifs* exhibition in 1925. By 1927 he was back in Czechoslovakia and remained in his own practice until March, 1939, when he came to England. Then followed work in an office near Manchester, and in forestry, until 1942, when he got the opportunity to teach at the Hull School, where he is now one of three senior lecturers. He started seriously in his own private practice three years ago. He has designed a house in Hull, below, right, and a block of flats now under construction, below, left. The sketch shows the completed flat scheme.





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**CHARLES OLIVER**

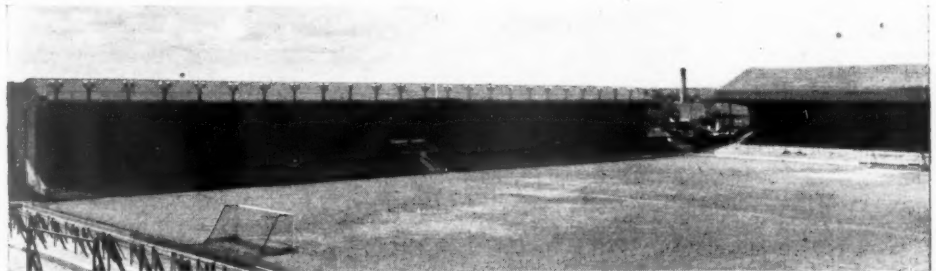
architect, surveyor and valuer in practice in HULL

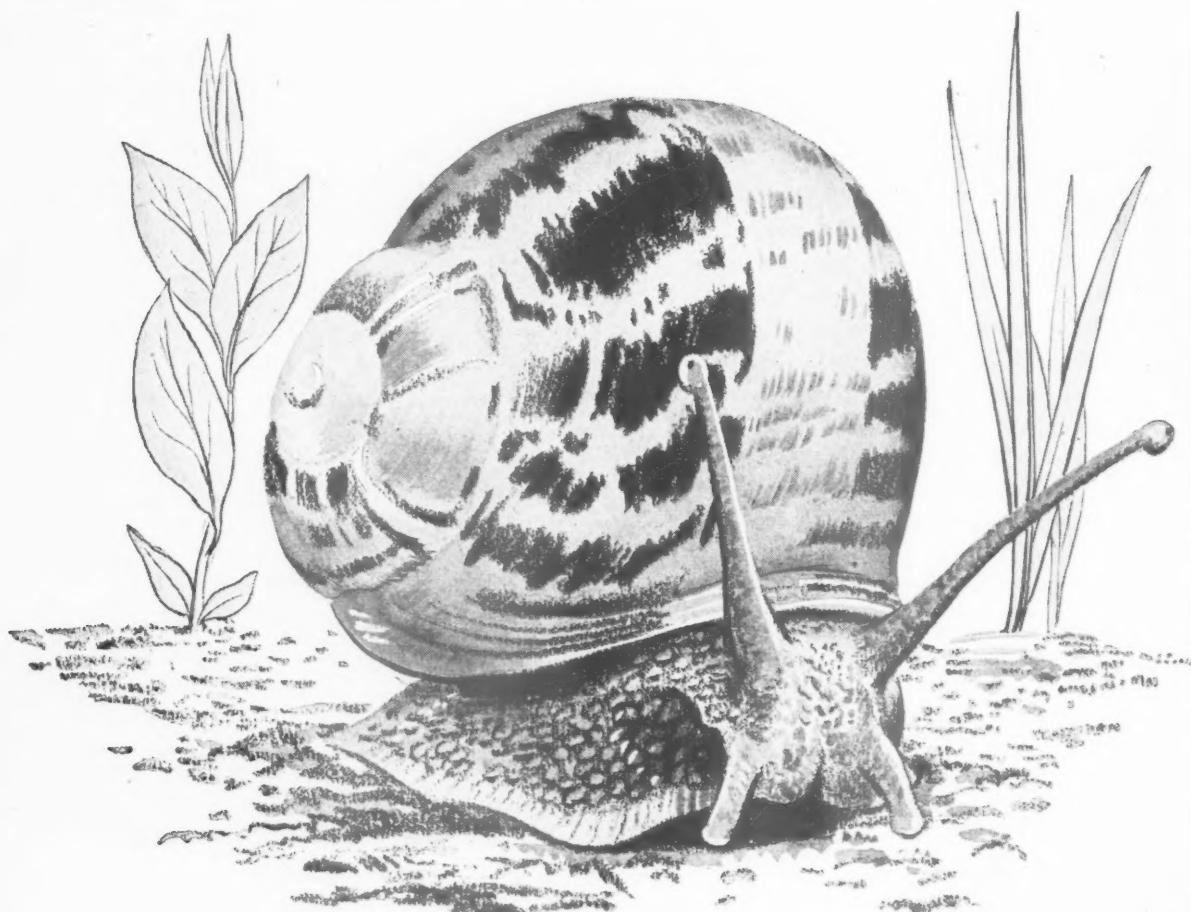
**CHARLES OLIVER.**—A past President of the Y. and E.Y. Architectural Society and for eight years a member of the RIBA Council (he left the Council in 1951) he is, despite having undertaken responsible and onerous tasks, a quiet and unassuming man, though possessing a lively and contentious critical sense. Like Mr. Blackmore senior he modestly declined to be photographed, but, unlike Mr. Blackmore, he could not provide an existing photograph either. He has been in practice in Hull all his life—first articulated to a Hull firm, and then starting up his own practice in 1912. In the Army in the '14-18 war—"I was a comic soldier"—he resumed his practice in 1919. He lives just outside Hull in a house he altered for himself in the village of Cottingham. He is a keen gardener. His office is very small—just two rooms in Scale Lane in the old town, with only a young girl as an assistant. He is a firm critic of some recent buildings in Hull, particularly one of the new stores, but praises the Ravenscroft building (page 11) except for the "flamboyant shop names." Recent buildings: above, right, oil refinery and offices in Hull; and right, new offices and dry dock for a shipbuilding company.

**GEORGE WILLIAMS**

architect in practice in HULL

**GEORGE WILLIAMS.**—Articled to a Hull architect he has been in his own practice since 1928. At one time he was closely concerned with a proposal to plan a private-enterprise, garden-city satellite town north-east of Hull for 10,000 houses, but the scheme lapsed due to strong opposition. Recent Hull buildings: below: left, a coldstore in Gillett Street; right, a football stadium at Boothferry Park; bottom: left, a bakery in Southcoates Lane; right, a factory extension in Ryde Avenue.





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### W. GREGORY WILSON

architect in private  
practice in HULL

**W. GREGORY WILSON.**—One of the few architects in Hull to take as much care in the design of his own office and equipment as in the appearance of his buildings, he is also one of the few architects in Hull who trained at the Liverpool school. He was articled at first to Blackmore & Sykes, to whom he returned after Liverpool. He was a garrison engineer during the war, at the end of which he returned for a final two years with Blackmore & Sykes as senior assistant. When this partnership split, he started on his own. Married, with three children, he lives outside Hull. He is a part-time teacher at the Hull school, and plays the piano. Little of his work is in Hull, but he has done a certain amount for Hull University, as the extension to a women's Hall of Residence at Cottingham, above, right. Right, a bungalow at Hornsea.

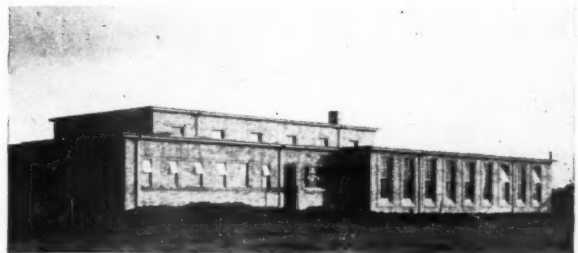
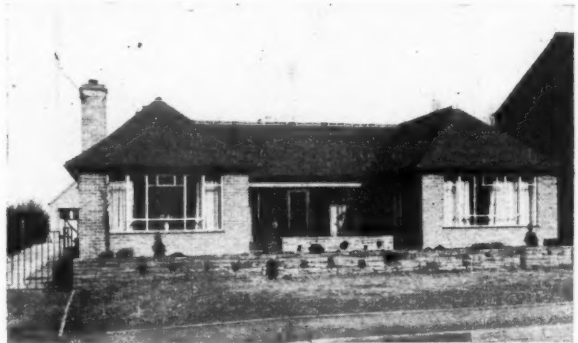


### FISHER & HOLLINGSWORTH

architects and surveyors in HULL, GAINSBOROUGH and GOOLE

**JOHN J. FISHER.**—Above left, is the second generation of that name in the firm which was originally called Brownlow Thompson & Fisher and was started in 1884. Thompson retired in 1926 and Fisher senior died in 1929, since which date John Fisher has been running the practice. In the last war became a Major in the RE. His principal interest, outside his office, is the Guild of Building, a unique organization, formed in 1931, of architects, builders, surveyors, draughtsmen and technical students in the building trade. To-day it has 300 members, of whom about 20 are architects. The aim of the Guild is the advancement of art, technique and craft of building by means of lectures and visits to sites and buildings.

**HAROLD J. HOLLINGSWORTH.**—A pre-war member of the firm who became a partner in 1943. A Hull man, once articled to a local firm, his outside interests are photography, cars and model railways. Recent buildings: right, top, laboratory and offices in Sculcoates Lane; centre, Methodist Church, Bricknell Avenue; bottom, war damage reinstatement and alterations to motor showrooms in Anlaby Road.





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## Buildings Illustrated

*Store for Hammond's Limited, Hull.* (Page 12.) Architects: T. P. Bennett & Son, F.R.I.B.A. Quantity surveyors: Gardiner & Theobald. Reinforced Concrete Consulting Engineer: W. V. Zinn, M.S.C. General contractors: Sir Robert McAlpine & Sons Ltd. Sub-contractors: demolition, Sam. Allon (Hull) Ltd.; Portland stone facings, Bath & Portland Stone Firms Ltd.; piling, Holmpress Piles Ltd.; artificial stone sills & coping, Empire Stone Co. Ltd.; shop fronts, entrances, shopfitting, etc., Courtney Pope Ltd.; electrical installation and fittings, Courtney Pope (Electrical) Ltd.; escalators, passenger & goods lifts, Waygood Otis Ltd.; tube system, Lamson Engineering Co. Ltd.; sanitary fittings and plate glass mirrors, John Bolding & Sons Ltd.; kitchen equipment, Radiation Ltd.; drainage, plumbing, fire mains and risers, F. Abba & Co.; asphalt work, The Ragusa Asphalt Paving Co. Ltd.; metal windows, steel lantern lights, etc., Crittall Manufacturing Co. Ltd.; heating, hot water and ventilation, Rosser & Russell Ltd.; cast iron ladder staircase handrails, etc., J. T. Scotney Ltd.; glazed wall tiling, terrazzo paving, skirtings, etc., O. Toffolo & Sons; spherical glass dome lights, T. & W. Ide; ironmongery, N. F. Ramsay & Co. Ltd.; incinerators, W. Sugg & Co. Ltd.; hose reels, S. Dixon & Sons Ltd.; quarry tile paving, Carter & Co. Ltd.; lightning conductors, R. C. Cutting & Co. Ltd.; ornamental metal panels to lower windows, F. A. Norris & Co. Ltd.; flag poles, Hurst Franklin & Co. Ltd.; hanging sign, H. H. Martyn & Co.; wooden handrails to main staircases, Stepany Contractors Ltd.; restaurant floor, Hollis Bros.; wood block flooring, Horsley Smith & Co. Ltd.; gas services, North Eastern Gas Board; facing bricks, Henry J. Greenham (1929) Ltd.; office partitions, Triplewood Ltd.; fibrous plaster, Jonathan James Ltd.; rubbish incinerator, Heene & Froude; delivery yard gates, Bolton Gate Co.

*Factory for Smith & Nephew Associated Companies Limited, Hull* (Page 13.) Consulting Engineers: W. S. Atkins & Partners. General contractors: William Townson & Sons Ltd. Sub-contractors: glazing, steel doors, Williams & Williams, Aygze Ltd.; heating and ventilation, Carrier Ross Engineering Co. Ltd.; pipework, Matthew Hall & Co. Ltd.; steelwork, J. T. Scotney Ltd.; asbestos roofing, The Boddy Roofing Co. Ltd.; Henry Williamson Ltd.; lifts, William Wadsworth & Sons; faience, The Leeds Fireclay Co. Ltd.; false ceilings, The Merchant Trading Co. Ltd.; roller shutters, Curlew Doors & Shutters Ltd.; tiling, Telford Ltd.; dolomite floors, British Dolomite Co. (1938) Ltd.; glass brick blocks, J. A. King & Co. Ltd.; polyvinyl chloride flooring, Interfusion Ltd.; architectural metal work, The Morris Singer Co. Ltd.; thermo-plastic tile floor, Semtex Ltd.; weighbridge, W. & T. Avery Ltd.; fire alarms, Associated Fire Alarms Ltd.; electrical work, The Humber Electrical Engineering Co.; sanitary ware, Doulton & Co. Ltd.; soap dispensers, The London Oil Refinery Co.; rail tracks, Thomas W Ward Ltd.; decorative glass panels, The London Sand Blast Decorative Glass Works Ltd.; drainage, plumbing, fire mains and risers, F. Abba & Co.

*Festival House, Jameson Street, Hull.* (Page 14.) Architects: C. Cowles-Voysey, F.R.I.B.A., and John Brandon-Jones, F.R.I.B.A. Consulting engineers: Oscar Faber & Partners. Quantity Surveyors: H. J. Venning & Partners. Clerk of works: W. J. Hine. General contractors: Leslie & Co. Ltd. Sub-contractors: heating and hot-water supply, Benham & Sons; electrical installation, Grierson Ltd.; lifts, Waygood Otis Ltd.; wood block floors, Hollis Bros. Ltd.; stone facing, Art Pavements & Decorations Ltd.; roof covering, D. Anderson & Son Ltd.; metal windows, C. E. Westhead Ltd.; shop front and entrance doors, Harris & Sheldon Ltd.; stone dressings, etc., Empire Stone Co. Ltd.; sanitary fittings, John Bolding & Sons Ltd.; terrazzo work, O. Toffolo & Son Ltd.; internal doors, John P. White & Sons Ltd.; painting, W. Chapman & Son; plumbing, Tarran Ltd.; fibrous plaster, H. H. Martyn & Co. Ltd.; steel hangers, steel bracketing & lathing, W. Chapman & Son, etc., Morris Singer Co. Ltd.; stair balustrades, Potter Rax Ltd.; ironmongery, Yannedis & Co. Ltd.; light fittings, A. C. Adamson & Co.; foundation stone carving, Darsie Rawlins; decorative painting, Mayfair Spraying & Decorating Co. Ltd.; fire extinguishers, Kingsford Products Ltd.; facing bricks, Proctor & Lavender Ltd.; paint, Hangers Paints Ltd.

*Grammar School, Bricknell Avenue, Hull.* (Page 15.) Architect: Andrew Rankine, O.B.E., A.R.I.B.A., City Architect. General contractors: F. Hall & Sons Ltd. Sub-contractors: Accotile flooring, The Asbestos & Rubber Co. Ltd.; asphalte floors and D.P.C., The Val de Travers Asphalte Paving Co. Ltd.; balustrades, King & Co.; cycle parking blocks, Stelcon (Industrial Floors) Ltd.; cloakroom fittings and screens, James Gibbons Ltd.; doors, Hollis Bros. Ltd.; door furniture, Lockerbie & Wilkinson (Birmingham) Ltd.; electrical installation, Booker Tarran Ltd.; entrance gates, F. Abba & Co.; facing bricks, Wray & Sons York Facing Bricks Ltd.; fencing, Penfold Fencing & Engineering Ltd.; glass dome lights, Pilkington Bros. Ltd.; gymnasium equipment, W. Hunt & Son Ltd.; gymnasium cloakroom fittings, F. Abba & Co.; heating and hot water supply installation, E. G. Hill & Co.; joinery, W. Batty & Co. (Builders) Ltd.; laboratory fittings (1st instalment), Kingston Architectural Craftsmen, Ltd.,

2nd instalment, Sotos Ltd.; lenscrete roof lights, Lenscrete Ltd.; metal windows and doors, Helliwell & Co. Ltd.; Crittall Ltd.; painting, F. A. Wells Ltd.; plumbing, Drape & Upton Ltd.; reinforcement (foundations), Richard Hill Ltd.; sanitary fittings, Rowson, Drew & Clydesdale, Dawber, Townsley & Co. Ltd.; steelwork, T. Partridge & Co. Ltd.; Redpath, Brown & Co. Ltd.; suspended floors and roofs, The Kleine Co. Ltd.; suspended ceilings, The Anderson Construction Co. Ltd.; strip and wood block flooring, Hewelson & Co. Ltd.; Hollis Bros. Ltd.; sculpture (designed by B. Hubbard), Kingston Concrete Products; terrazzo tiling and mosaic, O. Toffolo & Son Ltd.; terrazzo, concrete tiling and art stone, Kingston Concrete Products; roofing, The Ruberoid Co. Ltd.

*Junior Department, Wold Road School, Hull.* (Page 15.) Architect: Andrew Rankine, O.B.E., A.R.I.B.A., City Architect. General contractors: Robinson & Sawdon Ltd. Sub-contractors: Art stone and terrazzo tiling, etc., Kingston Concrete Products Ltd.; facing bricks, Wrays York Facing Bricks Ltd.; bituminous felt roofing, The Neuchatel Asphalte Co. Ltd.; foundations and R.C. roofs, Richard Hill Ltd.; flush doors, F. Hills & Sons Ltd.; door furniture, James Gibbons Ltd.; piling, Holmpress Piles Ltd.; wood block flooring, Hollis Bros. Ltd.; plastic tile floors, Semtex Ltd.; patent steel framework, metal windows and doors, precast concrete floors and roofs; concrete facing units, Hills (West Bromwich) Ltd.; sanitary fittings, Dawber, Townsley & Co. Ltd.; heating installation and cloakroom fittings, F. Abba & Co. Ltd.; electrical installation, Drape & Upton Ltd.; painting and decorating, T. W. Bailey & Sons, Ltd.; joinery, W. Batty & Co. Ltd.

*Pier Café, Hull.* (Page 17.) Architect: Andrew Rankine, O.B.E., A.R.I.B.A., City Architect. General contractors: Spooners (Hull) Ltd. Sub-contractors: Felt roof covering, Northern Asphalt Co. Ltd.; sunblinds, Henry Jordan & Co. Ltd.; electrical, C. E. Barnes Ltd.; plumber and glazier, F. Abba & Co.; flooring, Asbestos & Rubber Co.

*Hugh Webster House, for Aged Persons, Hull.* (Page 17.) Architect: Andrew Rankine, O.B.E., A.R.I.B.A., City Architect. General contractors: E. Barker Ltd. Sub-contractors: Electrical T. A. Garness Ltd.; heating engineer, B. Svenson & Co.; plumbing, R. W. Brown Ltd.; structural steel and wrought ironwork, King & Co. Ltd.; painting and decorating, A. K. West Ltd.; lino floor coverings, Asbestos & Rubber Co.; roofing felt, Northern Asphalt Co. Ltd.; wood block floors, Hollis Bros. Ltd.; terrazzo pavings, O. Toffolo & Son Ltd.; layout of grounds, Hull Corporation Parks & Burials Department; asbestos roof deck, Universal Asbestos Co. Ltd.; metal windows, Henry Hope & Son Ltd.; roof lights, Girling Ferro-Concrete Co. Ltd.; patent floors, B.R.C. Co. Ltd.; sanitary fittings, Ideal Boilers & Radiators, Ltd.; safety baths, Wm. Heaton & Co. Ltd.; flush doors, Southern Ltd.; facing bricks, Wray & Sons Facing Bricks Ltd.; blinds, Sunway Venetian Blinds (Venetian Vogue Ltd.).

*New Works for Priestman Brothers Ltd., Marfleet, Hull.* (Page 19.) Architects: Priestman & Lazenby, A.R.I.B.A. Consultant architects: James M. Monro & Son. General contractors: Quibell & Son Ltd. Sub-contractors: heating engineers, Rosser & Russell; piling, Holmpress Piles Ltd.; foundations, George Houlton & Sons Ltd.; structural steelwork, Cargo Fleet Ltd.; reinforcement, British Reinforcement Concrete Engineering Co. Ltd.; facing bricks, The Brick Marketing Co. Ltd.; commons, H. Williamsons; wood block floors, Hollis Brothers Ltd.; wall and floor tiling, Carter & Co. Ltd.; roller shutters, Haskins; doors, Flexoplywood Industries Ltd.; steel doors, King & Co. Ltd.; fencing and gates, Penfold Fencing & Engineering Co. Ltd.; sanitary fittings, Doulton & Co. Ltd.; windows and patent glazing, Henry Hope & Sons Ltd.; insulation, Absorbil Ltd.; Tentest Fireboard Co. Ltd.; roof light, Lenscrete Ltd.; paving, terrazzo partitions, Standard Pavements Co. Ltd.; steel partitioning, Constructors Ltd.; roofing, The Ruberoid Co. Ltd.; storage tanks, Braithwaite & Co. Ltd.; sliding door gear, P. C. Henderson Ltd.; lighting, C. F. Pardoe; switch gear, Johnson & Phillips.

*New Factory for Imperial Typewriter Co. Ltd., Hedon Road, Hull.* (Page 19.) Architects: Priestman & Lazenby, A.R.I.B.A. Consulting engineers: John Dossor, M.I.C.E., A.M.I.M.E.C.E. General contractors: Quibell & Son Ltd. Sub-contractors: reinforcements: Twistel Reinforcement Ltd.; British Reinforced Concrete Engineering Co. Ltd.; heating engineers, Young, Austen & Young; roofing, The Ruberoid Co. Ltd.; Northern Asphalt & Roofing Works; windows and roof glazing, Henry Hope & Sons Ltd.; armourplate doors, Pilkington Brothers Ltd.; joinery, J. Taylor & Son; piling, Holmpress Piles Ltd.; insulation, Asbestos & Rubber Co. Ltd.; manhole covers, Broad's Manufacturing Co. Ltd.; structural steel, United Steel Structural Co. Ltd.; acid proofing, Proderite Ltd.; terrazzo, A. Quibell & Co. Ltd.; cork floors, E. J. Elwood Ltd.; bricks, The Brick Marketing Co. Ltd.; Henry Williamson & Co. Ltd.; cast stone, Sutton Cast Stone Co.; steel doors, Eclair Doors Ltd.; shutters, Haskins Rolling Shutters; roof slabs, Thermoacust Ltd.; sanitary fittings, Dawber, Townsley & Co. Ltd.; gas services, North Eastern Gas Board; electricity services, Yorkshire Electricity Board; telephone installation, Kingston-union-Hull Telephone Dept.; fencing, Penfold Fencing & Engineering Ltd.; bayliss, Jones & Bayliss Ltd.; lightning conductors, V. G. Morris Ltd.; cycle parks, Stelcon (Industrial Floors) Ltd.; door furniture, Dryad Metal Works Ltd.; Josiah Parkes & Sons Ltd.;

petrol pumps, Avery-Hardoll Ltd.; hydraulic lift, Brown Bros. Ltd.; steel doors, etc., King & Co. Ltd.; electricians, John Shaw & Co. Ltd.; painters, F. A. Wells Ltd.; wood block floors, Hollis Bros. Ltd.; flush doors, Flexo Plywood Industries Ltd.; sliding door gear, British Trolley Track Co. Ltd.; insulation, Fibre Glass Ltd.; roof lights, Lenscrete Ltd.; lighting stage, Strand Electric & Engineering Co. Ltd.; tiling, British Clay Products Ltd.; insulation, Vermiculite (London) Ltd.; partitions, Triplewoods Ltd.; marble work, O. Toffolo & Sons Ltd.; strongroom doors, Chatwood Safe & Engineering Co. Ltd.; suspended ceilings, Expanded Metal Co. Ltd.; structural steel, Scotneys Ltd.; flagstaff, etc., Charles Pearson (Hull) Ltd.; plumbers, Drape & Upton Ltd.; furniture, Armstrongs (Hull) Ltd.; planting, Maxwell M. Hart (Glasgow) Ltd.; cranes, Geo. W. King; lighting and fittings, Crombie & Pearson Ltd.; switchgear, The British Thomson-Houston Co. Ltd.; General Electric Co.; stage equipment, Hall & Dixon Ltd.; canteen sereries, Roller Shutters Ltd.; kitchen equipment, Benham & Son; tubes, Lamson Engineering Co. Ltd.; lighting standards, Concrete Utilities Ltd.; tiling, Carter & Co. (London) Ltd.; shuttering, Kwikform Ltd.

*Triangle Development Trust, Hull* (Page 20.) Co-ordinating architect: Gelder & Kitchen; site hoarding and protective covering, Houlton & Grant Ltd.; excavation, sheet piling and reinforced concrete works to basements and service road, The Yorkshire Hennebieque Contracting Co. Ltd.; piling, Holmpress Piles Ltd.; asphalt, The Trinidad Lake Asphalt Co. Ltd.; reinforcement, Twistel Reinforcement Ltd.; bricks, Dawber, Townsley & Co. Ltd.

*Reconstruction and New Building, Clarence Mills, Hull.* (Page 21.) Architects: Gelder & Kitchen. General contractor: F. Shepherd & Son Ltd. Sub-contractors: steelwork, Samuel Butler & Co. Ltd.; metal windows and doors, John Williams & Sons (Cardiff) Ltd.; armoured doors, Mather & Platt Ltd.; vitreous enamel lettering, Birmingham Guild Ltd.; reconstructed stone, Stepany Cast Stone Co.; zinc flashings, G. A. Harvey & Co. (London) Ltd.; maple counter flooring, Bennetts Wood Flooring (Tungit) Co. Ltd.; door furniture, N. F. Ramsay & Co. Ltd.; faience tiling, The Leeds Fireclay Co. Ltd.; rainwater heads, The Lion Foundry Co. Ltd.; wrought iron tubular handrails, Tubwrights Ltd.; metal louvre panels, steel staircase, J. T. Scotney Ltd.; manhole castings and covers, White, Clark, Hyam & Co. Ltd.; hardwood doors, E. Batty; bricks, The Accrington Brick & Tile Co. Ltd.; lift, Pickering's Ltd.; asphalt, Joseph Hardgrave Asphalte Co.; steel vents, T. W. Palmer & Co. (Merton Abbey) Ltd.; plank flooring, Caiders Ltd.; sprinklers, Mather & Platt Ltd.; artesian well, C. Isler & Co. Ltd.; foundations and piling, The Yorkshire Hennebieque Contracting Co. Ltd.

*Rebuilding of Bell Mills, Driffield, for E. B. Bradshaw & Sons Ltd.* (Page 21.) Architects: Gelder & Kitchen. General contractors: F. Shepherd & Son Ltd. Sub-contractors: steelwork, Samuel Butler & Co. Ltd.; reinforced concrete, Indented Bar & Concrete Engineering Co. Ltd.; timber, Horsley Smith & Co. Ltd.; maple flooring, J. A. Hewelson & Co. Ltd.; fascia letters, Birmingham Guild Ltd.; metal windows, John Williams & Sons (Cardiff) Ltd.; sliding door gear, P. C. Henderson Ltd.; fire resisting doors, E. Batty; fireproof doors, Dreadnought Fireproof Doors (1930) Ltd.; roof lights, etc., J. A. King & Co. Ltd.; steel staircase, J. T. Scotney Ltd.; rolling shutters, G. Brady & Co. Ltd.; lift, Evans Lifts Ltd.; manhole castings, White, Clark, Hyam & Co.; lightning conductors, Dawber, Townsley & Co. Ltd.; flue, Cellacite & British Uralite Ltd.; heating installation, F. R. Scott Ltd.; piling contractor, Holmpress Piles Ltd.

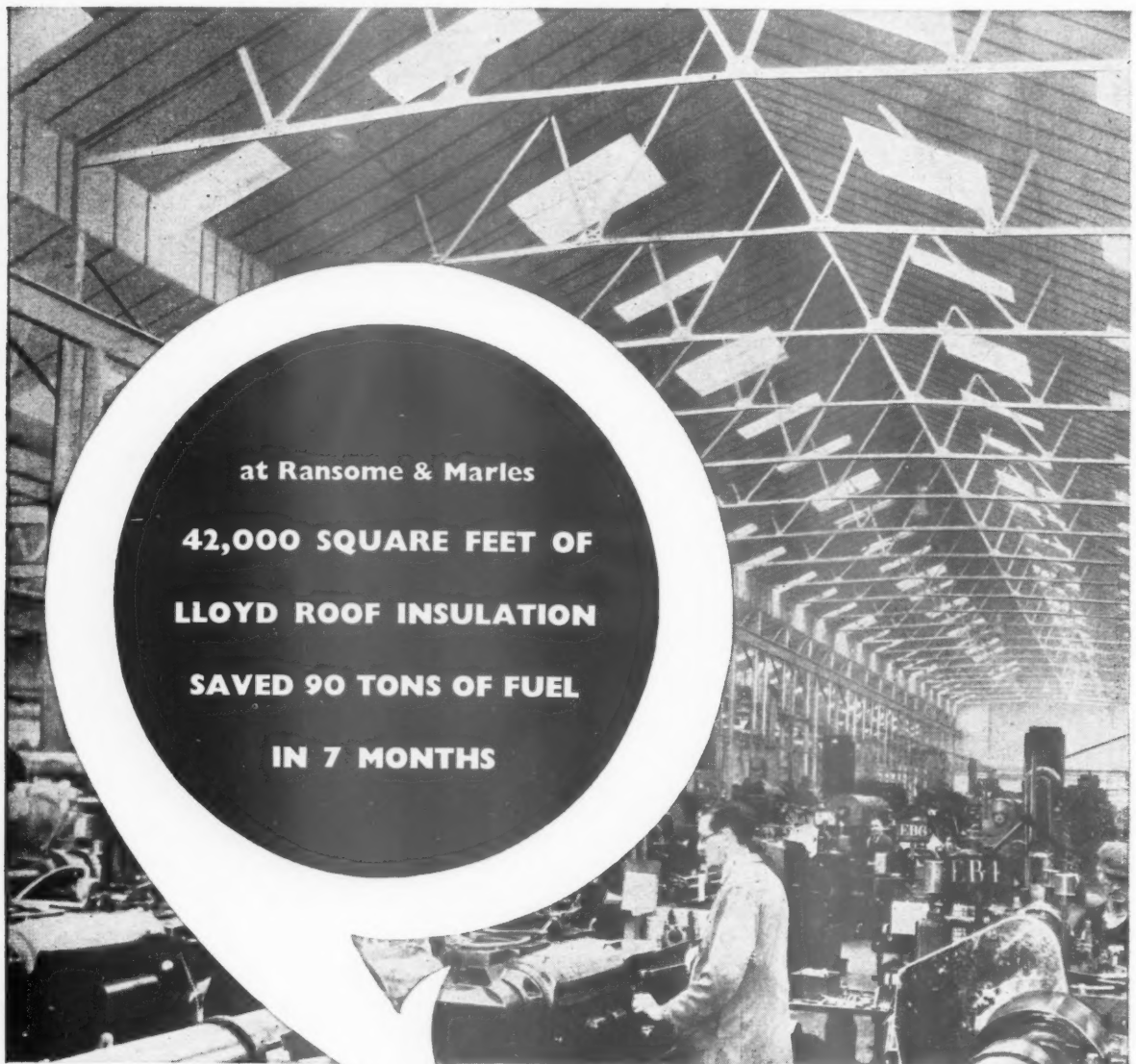
*Fruit Saleroom in Humber Street, Hull.* (Page 21.) Architect: W. B. Blanchard. General contractors: J. Mather & Son. Sub-contractors: electrical, Norman Wray & Nickson; painting, Ramsey & Beckett; plumbing, H. B. Leng; asphalt, Northern Asphalt & Roofing Works Co. Ltd.; wood block flooring, J. A. Hewelson & Co. Ltd.; precast concrete and roofing beams, Graystone Quarry Co. Ltd.; steelwork, J. T. Scotney Ltd.; heating, Hursel Radiators; roller shutters, G. Brady & Co. Ltd.

*Private House, 163, Cottingham Road, Hull.* (Page 21.) Architect: W. B. Blanchard. General contractors: E. Barker Ltd. Sub-contractors: roofing, Dawber, Townsley & Co. Ltd.; plumbing and heating engineers, R. W. Brown Ltd.; electrical installation, T. A. Garness Ltd.; painting, A. K. West Ltd.; hardwood and plastic tile floors, J. A. Hewelson & Co. Ltd.; asphalt, Northern Asphalt & Roofing Works Co. Ltd.

*Factory, Storry Smithson & Co. Ltd., Hull.* (Page 22.) Architects: A. C. Blackmore & Son, F.R.I.B.A. General contractors: C. R. Barrett & Sons. Sub-contractors: floor tiling, British Clay Products Ltd.; cills, lintols, etc., Sutton Cast Stone Co.; staircase, O. Toffolo & Son Ltd.; glass domes, T. W. Ide; handrail, J. T. Scotney Ltd.; quartzite facing, John Stubbs (Marble & Quartzite) Ltd.; Northern Asphalt & Roofing Works Co. Ltd.; door springs, Comyn Ching & Co.; plumbers, F. P. Tarran Ltd.; strong room lock Chubb & Sons Ltd.; glass, Pilkington Bros. Ltd.; raft foundation, Trussed Concrete Steel Co. Ltd.; precast floor and roof beams, Kingston Concrete Products Ltd.; windows, Crittall Manufacturing Co. Ltd.; hard-



*A machineshop bay with Lloyd roof insulation at the Ransome & Marles Bearing Company's works at Newark-on-Trent*



at Ransome & Marles  
42,000 SQUARE FEET OF  
LLOYD ROOF INSULATION  
SAVED 90 TONS OF FUEL  
IN 7 MONTHS

### BUT NOT ONLY THAT . . .

. . . Ransome & Marles found that insulation paid other dividends. The boiler plant, previously over-loaded and unable to keep the shops warm, has now enough reserve capacity to heat a considerable works extension. Draughts which, in the uninsulated shops, were caused by downward currents of air chilled by contact with the single-skin asbestos sheeting of the roof, have disappeared. The shops are much cleaner for the roof lining is an excellent seal against dust. (Most important, this, in

the manufacture of ball and roller bearings). It is also an excellent reflector and the lighting is better and more even. These improvements in working conditions have had a direct effect on the health of the employees. Absenteeism has dropped and so has the accident rate: output has gone up. The whole of this roof insulation was installed in a few weeks without interrupting the work in the shops.

For more information about Lloyd insulation, have a word with



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wood flooring, Hollis Bros. Ltd.; shopfitters, Hollis Bros. Ltd.; fireproof doors, Curfew Doors & Shutters Ltd.; steel, Dawnays Ltd.; electrical contractor, Vic Coupland Ltd.; dark room ventilation, Colt Ventilation Co.; heating, F. R. Scott Ltd.; decorator, C. S. Drury Ltd.; kitchen and laboratory installation, North Eastern Gas Board; trees and shrubs, Backhouse Nurseries Ltd.; flagpole, Chas. Pearson (Hull) Ltd.; mats, Bladons Ltd.; bronze lettering, Oldham Sign Service Ltd.; laboratory fittings, A. Gallenkamp & Co. Ltd.; automatic telephones, Communication Systems Ltd.; paint, Storry Smithson & Co. Ltd.; light fittings, Troughton & Young; seat coverings, Tibor Ltd.; door furniture, King & Co. Ltd.; furniture, Armstrongs (Hull) Ltd.

**Single storey dwelling at Hornsea, near Hull.** (Page 22.) Architects: A. C. Blackmore & Son, F.R.I.B.A. General contractor: A. Schofield (Builders) Ltd. Sub-contractors: roofing, Dawber Townsley & Co. Ltd.; windows, Crittall Manufacturing Co. Ltd.; delivery hatch, H. Newson & Sons Ltd.; door gear, E. Hillaldam & Co. Ltd.; doors, W. H. Beal Ltd.; rendering, Stonite Ltd.; hardwood flooring, Hollis Bros. Ltd.; heating, King & Co. Ltd.; gas installation, North Eastern Gas Board.

**Swedish Seamen's Church, Hull.** (Page 23.) Architects: F. J. Horth, F.R.I.B.A., H. Andrew, F.R.I.B.A. General contractors: Frederick Singleton & Sons Ltd. Sub-contractors: precast concrete floors, Kingston Concrete Products Ltd.; natural stone, Quibell & Son Ltd.; cast stone, The Hull Concrete Stone Co. Ltd.; electrical installation, W. O. Honor Ltd.; terrazzo, O. Toffolo & Son Ltd.; plumbing, C. F. Proctor Ltd.; wood block flooring, Hollis Bros. Ltd.; painting, T. W. Bailey & Sons Ltd.; constructional steelwork, Richards (Leicester) Ltd.; steel casements, Helliwell & Co. Ltd.; heating, Hope's Heating Ltd.; sliding doors, E. Hill Aldam & Co. Ltd.; locks, Alfred Brown & Co. Ltd.; sanitary ware and fittings, Dawber, Townsley & Co. Ltd.

**Finnish Seamen's Church, Hull.** (Page 23.) Architects: F. J. Horth, F.R.I.B.A., H. Andrew, F.R.I.B.A. General contractors: F. Bilton Ltd. Sub-contractors: precast concrete floors, Kingston Concrete Products Ltd.; natural stone, Shackleton & Son; cast stone, The Hull Concrete Stone Co. Ltd.; electrical installation, W. O. Honor Ltd.; terrazzo, O. Toffolo & Son Ltd.; plumbing, F. P. Tarran Ltd.; wood block flooring, J. A. Hewetson & Co. Ltd.; constructional steelwork, Richards (Leicester) Ltd.; steel casements, Helliwell & Co. Ltd.; heating, Hope's Heating Ltd.; sliding doors, E. Hill Aldam & Co. Ltd.; locks, Alfred Brown & Co. Ltd.; sanitary ware and fittings, Dawber, Townsley & Co. Ltd.

**Store for Edwin Davis & Co. Ltd., Bond Street Hull.** (Page 23.) Architects: F. J. Horth & H. Andrew, F.R.I.B.A. General contractors: Spooners (Hull) Ltd. Sub-contractors: piling, Holmpress Piles Ltd.; precast concrete floors, Kingston Concrete Products Ltd.; artificial stonework, The Hull Concrete Stone Co.; electrical installation, Porte Bros. & Co. Ltd.; terrazzo, O. Toffolo & Son Ltd.; plumbing, Drape & Upton Ltd.; sematic flooring, J. A. Hewetson & Co. Ltd.; painting, Mawe, Staff & Co.; brickwork, joinery, plastering, Spooners (Hull) Ltd.; constructional steelwork, Richards (Leicester) Ltd.; steel windows, Helliwell & Co. Ltd.; heating, Rosser & Russell Ltd.; passenger lift, Waygood-Otis Ltd.; shopfitters, William Mason & Son Ltd.; hardware, Alfred Brown & Co. Ltd.; sliding door gearing, E. Hill Aldam & Co. Ltd.; sanitary ware and fittings, Dawber, Townsley & Co. Ltd.

**Reconstruction of Office and Banking Premises for J. W. Locking Ltd., at Paragon Square (known as Seaton Buildings), Hull.** (Page 24.) Architects: Elsworth, Sykes & Co. General contractors: Fenner Panten & Co. Ltd. Sub-contractors: masons, Quibell & Son Ltd.; purpose made metal windows, The Crittall Manufacturing Co. Ltd.; wall and floor tiling, Conways (Tiles and Terrazzo) Ltd.; structural steel, Dawnays Ltd.; hardwood flooring, J. A. Hewetson Ltd.; Hollis Bros. Ltd.; sealed double glazing units, Pilkington Bros. Ltd.; painting and decorating, A. K. West Ltd.; balcony balustrades, Spalding & Milner; roofing, Northern Asphalt Co. Ltd.; electrical, F. A. Garness Ltd.; sound insulation, Merchant Trading Co.; artificial stonework, Sutton Cast Stone Co.; flush doors, F. Hill & Sons Ltd.; terrazzo and mosaic work, O. Toffolo & Son Ltd.; plumbing, Drape & Upton Ltd.; heating installation, A. F. Snelling & Co. Ltd.; bank book lift, Gimson & Co.; fascia letters, etc., J. R. Pearson (Birmingham) Ltd.

**Factory, Seed Warehouse and Offices for Johnston & Jeff, High Street, Hull.** (Page 24.) Architects: Elsworth, Sykes & Co. General contractors: Quibell & Son. Sub-contractors: flooring, Hollis Bros. Ltd.; roofing, Dawber, Townsley & Co. Ltd.; electrical, Thompson Bros.; plumber, Drape & Upton Ltd.; painting and decorating, A. K. West Ltd.; steel roller shutter, Haskins Ltd.; ventilators, James Hill & Co.; fire resisting door, Chubb & Sons Lock & Safe Co.; heating, King & Co.; reinforcement steel, Twistell Reinforcement Ltd.; joinery sub-contractor, Humber Joiners Ltd.; artificial stonemason, Sutton Cast Stone Ltd.

**The Queen Mary Hostel for Fishermen, Hull.** (Page 24.) Architects: Elsworth Sykes & Co. General contractors: J. Mather & Son. Sub-contractors: foundations, F. Hall & Sons Ltd.; interior decorating, constables, Mayfair Colour Centre; piling, Holmpress Piles Ltd.; structural

steelwork, Palmers Hebburn Co. Ltd.; structural floors, Kingston Concrete Products Ltd.; metal windows, Crittall Manufacturing Co. Ltd.; roofing, Northern Asphalt & Roofing Works Co. Ltd.; stone masons, Quibell & Son Ltd.; Stepney Cast Stone Co.; heating and ventilation engineers, A. F. Snelling & Co. Ltd.; plumbing, F. P. Tarran Ltd.; sanitary fittings, Dunwoodie & Co. Ltd.; faience wall tiling, British Clay Products Ltd.; flooring, Hollis Bros. Ltd.; The Asbestos & Rubber Co. Ltd.; electrical installation, T. A. Garness Ltd.; lighting fittings, Troughton & Young Ltd.; General Electric Co. Ltd.; neon signs, The Electric Sign Co. Ltd.; fibrous plaster, W. J. Wilson & Son; joinery work, T. Sanderson & Sons; ironwork, J. T. Scotney Ltd.; King & Co. Ltd.; Bolton Gate Co. Ltd.; lettering, Archibald & Johnsons Ltd.; painting and decorating, C. E. Pittaway; furnishing and curtaining, Hammonds Ltd.; Armstrongs (Hull) Ltd.; kitchen equipment, C. F. E. Bartlett & Son; murals, Miss P. Field; stone carving, H. B. Verity.

**Tobacco Factory and Office Block for Martin & Son (Hull) Ltd., Scale Lane, Hull.** (Page 24.) Architects: Elsworth Sykes & Co. General contractors: Robinson & Sawdon Ltd. Demolition: Sam Allon (Hull) Ltd. Sub-contractors: steelwork, Dawnays Ltd.; display window and joinery, Kingston (Architectural Craftsmen) Ltd.; precast flooring, Concrete Ltd.; windows and lantern lights, Melhows & Co. Ltd.; plumbers, J. Gouldenborough & Son; lift, Gimson & Co. (Leicester) Ltd.; flooring and roofing, Northern Asphalt Co.; floor tiling, Asbestos & Rubber Co. Ltd.; electric wiring, Wards of Hull Ltd.; ironwork, balustrading, door furniture, etc., J. T. Scotney Ltd.; terrazzo and mosaic work, O. Toffolo & Son; painting and decorating, A. K. West Ltd.; bronze letters, Archibald & Johnson Ltd.; wire fencing, L. Worsdall & Son; strong room door, Chubb & Sons, Lock & Safe Co. Ltd.

**Offices and Showroom for Jordan & Company (Hull) Ltd.** (Page 25.) Architects: Roper Spencer & Hall, F.A.I.A.A. General contractors: Stan Spruit. Sub-contractors: steel windows, Williams & Williams Ltd.; roofing, The Ruberoid Co. Ltd.; steelwork, Redpath, Brown & Co. Ltd.; reinforcement, McCall & Co. (Sheffield) Ltd.; piling, Holmpress Piles Ltd.; lifts (crab), Waygood-Otis Ltd.; (passenger), Pickering Ltd.; (service), Pickering Ltd.; heating, F. Abba & Co. Ltd.; precast flooring, The Yorkshire Hennebique Contracting Co. Ltd.; stonework, Stepney Cast Stone Co. Ltd.; shop fronts, Houlton & Grant Ltd.; ventilation, The Colt Ventilation Co. Ltd.; electrician, A. Bartle & Son.

**Tailors Shop for B. G. Condon & Sons Ltd., 50, Ferensway, Hull.** (Page 25.) Architect: Allanston Hick, F.R.I.B.A. Sub-contractors: shopfitting, F. N. Holliday; electrical, F. P. Tarran Ltd.; decorators, F. A. Wells Ltd.; electric fittings, G. E. Company.

**Alterations to House at Kingsmill, Driffield, Hull.** (Page 26.) Architect: Allanston Hick, F.R.I.B.A. General contractor: David Naylor. Sub-contractors: joiner, William E. Naylor; plumbing and electrical, J. R. Woodmansey; decorator, Christopher Thurlow & Son; fireplaces, Bratt Colbran Ltd.

**Housing (Airey and Traditional) at Aberford for Tadcaster R.D.C., near Hull.** (Pages 26 and 27.) Architects: Anthony Steel & Owen, A./R.I.B.A. General contractor: Leonard Garbutt Ltd. Sub-contractors: bricklayer, joinery, plumbing, Leonard Garbutt Ltd.; roofer, James Season Ltd.; painter, Owen Oates, E. C. Hudson; precast concrete, Brookes Ltd.; accotile floors, Asbestos & Rubber Co. Ltd.; prestressed joists, Concrete Ltd.; fencing and gates, Darlington Fencing Co. Ltd.; facing bricks, Dunbrik Ltd.; roof tiles, Langley Ltd.; Dignus Sandstrom; paints, Fleetwood Paints Ltd.; metal windows, Crittall Manufacturing Co. Ltd.; internal doors, Morris's Ltd.; sanitary fittings, Raine Bros. Ltd.; J. H. Bean & Co.; fireplaces, Ironmongery and ranges, Hardy & Holgate Ltd.; electrical work, R. Levitt, W. Wilson; gas installation, North Eastern Gas Board.

**County Ambulance Depot, Dunhill Road, Goole.** (Page 26.) Architects: Anthony Steel & Owen, A./R.I.B.A. Contractors: R. C. Floors and Roofs, R. C. Insitu canopy, Concrete Ltd., John Cooke & Son (Huddersfield) Ltd.; mesh reinforcement to ground floor, Expanded Metal Co. Ltd.; door furniture, J. & H. Smith Ltd.; sliding door gear, George W. King Ltd.; electrical installation, G. L. Wright & Co.; electrical fittings, Crompton Parkinson Ltd.; entrance gates, Bolton Gate Co. Ltd.; fireproof, Hardy & Holgate Ltd.; accotile flooring, Asbestos & Rubber Co. Ltd.; beech flooring to common room, J. A. Hewitson & Co. Ltd.; heating and hot water installation, Sayes & Co. Ltd.; metal windows, Crittall Manufacturing Co. Ltd.; rock asphalt tanking and roofing, Northern Asphalt Co. Ltd.; sanitary fittings, Leeds Fireclay Co. Ltd.; dado to toilets, John Ellis & Sons Ltd.; artificial stone, Girling Ferro Concrete Co. Ltd.; facing bricks, Richard Thomas & Co.

**Call Stand and Medical Centre for National Dock Labour Board, Albert Dock, Kingston-upon-Hull.** (Page 26.) Architect: A. J. Seal, F.R.I.B.A. Associated Architects: Anthony Steel & Owen, A./R.I.B.A. Quantity Surveyor: P. S. Rathbone, A.I.A.S. General contractors: Fenner, Panten & Co. Ltd. Sub-contractors: Metal windows, Middlesbrough Casements Ltd.; sanitary fittings, Dent & Hellyer Ltd.; artificial stone, Empire

Stone Co.; wall tiling, Carter & Co. Ltd.; rubber floors, Leyland & Birmingham Rubber Co. Ltd.; terrazzo floor and dado, Diespeker & Co. Ltd.; cork flooring, Armstrong Cork Co.; glass domes, Pilkington Bros. Ltd.; steel piling, British Steel Piling Co. Ltd.; pile driving, Holmpress Piles Ltd.; ventilators, Colt Ventilation Ltd.; roof structure, Overstructures Ltd.; facing bricks, Proctor & Lavender Ltd.; name letters, Johnson Bros.; flush doors, Fenner, Panten & Co. Ltd.; asphalt, Northern Asphalt & Roofing Works Co. Ltd.; electrical installation, Humber Electrical Engineering Co.; sanitary ware and fittings, Dawber Townsley & Co. Ltd.

**The Bridges Hotel, Sutton Road, Hull.** (Page 27.) Architects: Wheatley & Houldsworth. General contractors: Fenner, Panten & Co. Ltd. Sub-contractors: Asphalt, Northern Asphalt & Roofing Works Co. Ltd.; steelwork, J. T. Scotney Ltd.; suspended concrete floors, Kingston Products Ltd. (Rapid Floors); artificial stonework, Stepney Cast Stone Co.; electrical work, Porte Bros. & Co.; aluminium roof members, Blackburn Aircraft Co. Ltd.; roof tiling, Fred Windross Ltd.; terrazzo, O. Toffolo & Son Ltd.; sematic floors, J. A. Hewetson & Co. Ltd.; painter, F. A. Wells Ltd.; roof grillage, Precision Metal Grillage; metal windows and lantern lights, Helliwell & Co. Ltd.; first floor ceilings, Sundeala Board & Patent Fixings.

**Offices and Showroom for Globe & Simpson (Sheffield) Ltd., Hull.** (Page 27.) Architects: Wheatley & Houldsworth. General contractors: Spooners (Hull) Ltd. Sub-contractors: Painters, W. Chapman & Son; plumbers, F. Abba & Co.; electricians, Booker & Tarran Ltd.; asphalters, Northern Asphalt & Roofing Works Co. Ltd.; heating, The Humber Heating Co. Ltd.; steelwork, Dawnays Ltd.; asbestos roof, Dawber, Townsley & Co. Ltd.; concrete floors and roofs, Concrete Ltd.; metal windows, Melhows & Co. Ltd.

**Garage, Spare Parts Stores, Showroom, etc., for Cornelius Parish Ltd., Anlaby Road, Hull.** (Page 28.) Architect: Robert G. Clark, F.R.I.B.A. General contractors: Fenner, Panten & Co. Ltd. Sub-contractors: Heating installation, A. F. Snelling & Co. Ltd.; asbestos roofing, Fred Windross; wood flooring, J. A. Hewetson & Co. Ltd.; painting and decorating, W. Chapman & Son; steelwork, King & Co. Ltd.; windows and patent glazing, Helliwell & Co. Ltd.; electrical work, T. A. Garness Ltd.; petroleum pumps and tanks, Regent Oil Co. Ltd.; oil lines, C. C. Wakefield & Co. Ltd.

**Offices, Laboratories for Major & Co., Ltd., Fountain Road, Wincolmlee, Hull.** (Page 28.) Architect: Robert G. Clark, F.R.I.B.A. General contractors: Fenner, Panten & Co. Ltd. Sub-contractors: C. F. T. Baily (Hull) Ltd. Sub-contractors: Heating and electrical installation, B. Svenson & Co. Ltd.; wood flooring, Hollis Bros. Ltd.; painting and decorating, F. A. Wells Ltd.; steelwork, King & Co. Ltd.; windows and patent glazing, Helliwell & Co. Ltd.; joinery, W. Batty & Co. Ltd.; cast stone, Hull Concrete Stone Co. Ltd.; pre-cast floors and roofs, Concrete Ltd.

**Factory for the Humber Oil Co. Ltd., Marfleet, near Hull.** (Page 28.) Architect: Robert G. Clark, F.R.I.B.A. General contractors: E. Barker, Ltd. Sub-contractors: Electrical installation, T. A. Garness Ltd.; plumber, T. Hicks & Sons; windows and patent glazing, Helliwell & Co. Ltd.; Middlesbrough Casements Ltd.; heating installation, F. R. Scott Ltd.; steelwork, King & Co. Ltd.; asbestos roofing, Fred Windross; wood flooring, B. W. Brooke & Co. Ltd.

**Masonic Hall, Little Park Street, Hull.** (Page 28.) Architect for reconstruction: Robert G. Clark, F.R.I.B.A. General contractor: Scruton & Co. (Builders) Ltd. Sub-contractors: Wood block flooring, J. A. Hewetson & Co. Ltd.; steelwork, J. T. Scotney Ltd.; heating installation, F. R. Scott Ltd.; electrical work, W. O. Honor Ltd.; asphalters, The Northern Asphalt Co. Ltd.; plumbers, T. Hicks & Sons.

**Warehouse for Brown Brothers Ltd., Francis Street, Hull.** (Page 28.) Architect: Robert G. Clark, F.R.I.B.A. General contractors: Quibell & Son Ltd. Sub-contractors: Windows and patent glazing, Helliwell & Co. Ltd.; steelwork, Redpath, Brown & Co. Ltd.; heating installation, A. G. Wainey & Co. Ltd.; painting and decorating, F. A. Wells Ltd.; plumbers, Drape & Upton Ltd.; electrical work, T. A. Garness Ltd.; floor tiling, J. A. Hewetson & Co. Ltd.

**Detached house, Hull.** (Page 28.) Architect: J. Konrad, F.R.I.B.A., A.M.T.P.I. General contractors: J. Mather & Son. Sub-contractors: Bricks, Mountain Grey rustic facings of Richard Thomas & Baldwin Ltd.; precast stone and concrete, Stepney Cast Stone Co.; stone steps and paving, Quibell & Son Ltd.; steel windows and roofing, Dawber, Townsley & Co. Ltd.; sematic tile floor, Horsley, Smith & Co. Ltd.; precast concrete gutters, Finlock Gutters (Yorks) Ltd.; fireplace, Allied Ironfounders Ltd.; H.W. boiler and towel rail in bath, Ideal Radiators Ltd.; plumbing contractor, H. Lison; electric contractor, Reliance Electrical Co.; steel windows, Williams & Williams; curtain rails, Thomas French & Son.

**New Refinery and Administrative Block for John McMillan & Co., Ltd., Humber Oil Works, 266/268, Wincolmlee, Hull.** (Page 29.) Architect: Charles Oliver, L.R.I.B.A. General

contractor: George Houlton & Sons Ltd. Sub-contractors: Plumbing, Drape & Upton Ltd.; roofing, Turners Asbestos Co. Ltd.; roof glazing, Helliwell Ltd.; painter and decorator, T. W. Bailey & Sons Ltd.; structural steelwork and gables, Redpath, Brown & Co. Ltd.; electrical engineers, W. O. Honor Ltd.; heating and ventilation, Norris Warming Co. Ltd.; suspended floor and roof to Administrative Block, Concrete, Ltd.; wood block flooring, J. A. Hewetson & Co. Ltd.; tiles to entrance hall and staircase, etc., British Clay Products Ltd.; oak fittings to managing director's office, T. T. Cass & Sons Ltd.

**New Offices and Dry Dock for Brown Shipbuilding Co. Ltd., Lime Street, Hull.** (Page 29.) Architect: Charles Oliver, L.R.I.B.A. General contractor (office building): W. H. Beal & Co. Ltd. Sub-contractors: roofer, Dawber, Townsley Ltd.; plumber, Drape & Upton Ltd.; electrical installation, Humber Electrical Engineering Co. Ltd.; wood block flooring, J. A. Hewetson & Co. Ltd.; Dry Dock Works, F. Hall & Sons.

**Cold Store for Stirk Brothers Ltd., Gillett Street, Hull.** (Page 29.) Architect: George Williams, F.R.I.B.A. General contractors: Kettlewell, Son & Co. Ltd. Sub-contractors: joiners, Kettlewell, Son & Co. Ltd.; plumbers, R. W. Brown Ltd.; refrigeration, J. & E. Hall Ltd.; cork insulation, B. Jaquiss & Sons Ltd.; lifts, J. & E. Hall Ltd.

**Boothferry Park Stadium for the Hull City A.F.C. Co. Ltd., Hull.** (Page 29.) Architect: George Williams, F.R.I.B.A. General contractors: Harold Needler, John Needler, Henry Needler. Sub-contractors: structural steel engineers, Redpath, Brown & Co. Ltd.; Dawbays Ltd.; reinforced concrete engineers, The Expanded Metal Co. Ltd.; piling, A. B. Holmes; lighting, heating & water heating, The Hull Corporation Electricity Department, The Humber Electrical & Engineering Co. Ltd.; asbestos cement sheets, Dawber Townsley & Co. Ltd.

**Rebuilding of Bakery for W. Teanby Ltd., Southcoates Lane, Hull.** (Page 29.) Architect: George Williams, F.R.I.B.A. General contractors: F. Hall & Sons Ltd. Sub-contractors: joiners, R. Finch & Co. Ltd.; plumbers, Drape & Upton Ltd.; slaters, Dawber, Townsley & Co. Ltd.; painters, Albany Industries (Hull) Ltd.; electrical, The Humber Electrical & Engineering Co. Ltd.

**Factory Extensions, Artists and Photographic Studios for The City Engraving Co. Ltd., Ryde Avenue, Hull.** (Page 29.) Architect: George Williams, F.R.I.B.A. General contractors: F. Hall & Sons Ltd. Sub-contractors: joiners, R. Finch & Co. Ltd.; plumbers, F. P. Tarran Ltd.; painting and electrical, The City Engraving Co. Ltd.

**Clemson Hall, Cottingham, University College, Hull.** (Page 30.) Architect: W. Gregory Wilson, B.A.R.C.H. (HONS.), A.R.I.B.A. General contractors: Robinson & Sawdon Ltd. Sub-contractors: joiners, J. Taylor & Son (Builders, Hull) Ltd.; plumbing, F. Abba & Co.; electrical, N. G. Bailey & Co. Ltd.; decorating, F. A. Wells Ltd.; heating, Rosser & Russell Ltd.; kitchen equipment, Pennington Catering Equipment Co. Ltd.; catering consultant, Henry Smith, F.H.C.I.; wrought iron balustrade, Bigwood Bros. (Birmingham) Ltd.; partitions, Bellock Gypsum Industries Ltd.; furniture and soft furnishings, Bladons (Drapers & Furnishers) Ltd.; purpose-made furniture, Heals Contracts Ltd.; floor layers, J. A. Hewetson & Co. Ltd.; rubber floors, Asbestos & Rubber Co. Ltd.; lighting fittings, Troughton & Young (Lighting) Ltd.; cast stone, Sutton Cast Stone Co.; reinforcement, Twiststeel Reinforcement Ltd.; steel work, Dawbays Ltd.; tile hanging and roof tiling, Dawber Townsley & Co. Ltd.; flooring tiles, Carter & Co. (London) Ltd.; incinerators, The Hygienette Manufacturing Co.

**Bungalow at Hornsea, Nr. Hull.** (Page 30.) Architect: W. Gregory Wilson, B.A.R.C.H. (HONS.), A.R.I.B.A. General contractors: A. Schofield (Builders) Ltd. Sub-contractors: plumbing and heating installation, George A. Jarratt & Sons; hardwood screen to front entrance, Samuel Owst & Sons; roofing contractors, L. A. Hall (Hull) Ltd.; nurserymen, Backhouse Nurseries (York) Ltd.; woodblock flooring to dining room, J. A. Hewetson & Co. Ltd.; floor covering (linoleum), Asbestos & Rubber Co. Ltd.

**Laboratory and Offices for Blundell, Spence & Co. Ltd., Bankside Works, Southcoates Lane, Hull.** (Page 30.) Architects: Fisher & Hollingsworth, L.R.I.B.A. General contractors: Myton Ltd. Sub-contractors: steelwork, Dawbays Ltd.; heating and ventilating, A. F. Shelling & Co. Ltd.; plumbing and electrical installation, B. Svenson & Co. Ltd.; metal partitioning, The Ayrshire Dockyard Co. Ltd.; patent glazing, W. H. Heywood & Co. Ltd.; ceiling linings, Horsley Smith & Co. Ltd.; steel windows, Crittall Manufacturing Co. Ltd.; laboratory fume cupboards, A. Gallenkamp & Co. Ltd.; fabric reinforcement, The British Reinforced Concrete Engineering Co. Ltd.; strongroom doors, Chubb & Sons Co. Ltd.; ironmongery, W. & R. Leggott Ltd.; roller shutters, Mather & Platt; floor duct covers, The Meadow Foundry Co. Ltd.; painting and decorating, Excell Painters Ltd.; laboratory benches, Armstrongs (Hull) Ltd.

**Bricknell Avenue Methodist Church Buildings, Bricknell Avenue, Hull.** (Page 30.) Architects: Fisher & Hollingsworth, L.R.I.B.A. General

contractor: Robinson & Sawdon Ltd. Sub-contractors: piling, Holmpress Piles Ltd.; acoustic treatment, May Acoustics Ltd.; windows and dome roof lights, Helliwell & Co. Ltd.; electrical installation, T. A. Garness Ltd.; foundation beam reinforcement, McCall & Co. (Sheffield) Ltd.; fabric reinforcement, Johnson Reinforced Concrete Engineering Co. Ltd.; steel beams, Redpath Brown & Co. Ltd.; joinery, H. Armstrong; plumbing, F. Abba & Co.; painting and decorating, F. A. Wells Ltd.; asphaltting, The Limmer & Trinidad Lake Asphalt Co. Ltd.

**War Damage Reinstatement and alterations to 95/105, Anlaby Road, Hull, for The Triangle Motor Co. Ltd.** (Page 31.) Architects: Fisher & Hollingsworth, L.R.I.B.A. General contractors: J. Taylor & Son (Builders, Hull) Ltd. Sub-contractors: shopfitters, A. Davies & Co. Ltd.; patent glazing, Helliwell & Co. Ltd.; decorations, W. Chapman & Son; electrical installation, W. O. Honor Ltd.; neon signs, Weldaneon Signs Ltd.; steelwork, J. T. Scotney Ltd.; asphalt floors and roof, Northern Asphalt & Roofing Works Co. Ltd.; terrazzo fascia, O. Toffolo & Son Ltd.; display case, Turner & Barker; ironmongery, King & Co. Ltd.; bricklaying and plastering, J. W. Jackson; plumbing, Drape & Upton.

## Announcements

The practice of the late William E. Wolff, F.R.I.B.A., of Torquay, has been combined with that of Beare & Croydon, A./A.R.I.B.A., 42, Devon Square, Newton Abbot (Tel. Newton Abbot 57).

His Royal Highness the Duke of Edinburgh has been pleased to accept Honorary Fellowship of the Institute of Weiding. The Duke was formally elected to this class of membership by the council of the institute at its meeting on June 10.

The Spencer Wire Company Limited, of Wakefield, have established a subsidiary under the title of The Spencer Wire Company (Developments) Ltd.

G. W. Robinson, of 47, Ullswater Avenue, Acklam, Middlesbrough, has been appointed to represent Jenolite Ltd., in their north eastern area. Jenolite Ltd. are manufacturers of industrial chemical specialities.



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This latest Datasheet, featuring the Type 1200 sliding and folding hangar door, completes the set of 12 comprising the Esavian Datasheet Folder. Architects who have not received this folder are invited to write for one—it contains illustrations of the many applications of the Esavian principle.

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\*  
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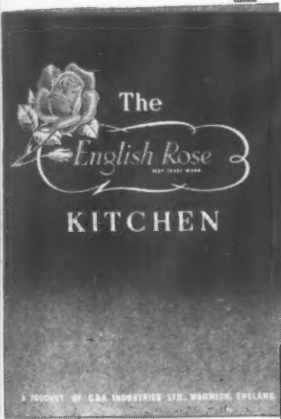
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Please ask manufacturers to send further particulars to:—

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AJ 2.7.53

## News (continued from page 5)

### HEATING

#### Fuel Economy

Ways of saving fuel was the subject of several speakers at the fifth British Electrical Power Convention held at Torquay recently.

Sir John Hacking in his presidential address said that the best prospect of achieving appreciable fuel economy in the domestic field was to cut down the heat losses from buildings by adopting proper standards of insulation. In this way it would be possible to halve the coal required for domestic space heating (now in the order of 30 million tons a year) but it would involve considerable expenditure. He stated that with the present cost of insulating materials there was little inducement to adopt proper standards of heat insulation even for new buildings. Sir John estimated that heating in all its forms accounted for 30 to 35 per cent. of the public consumption of electricity.

H. S. Prosser of the British Electricity Authority and A. W. Pedder, consulting engineer, in their joint paper "Combined Electricity and Heat Supplies" at the same convention, reached the following conclusion. That "district heating [for commercial and industrial users] from a special heat-electric station would result in a substantial reduction in the coal consumed as compared with individual heating."

Mr. Pedder and Mr. Prosser reached their conclusions on the basis of an analysis of four different methods of providing district heating to groups of 2,000, 4,000 and 16,000 consumers: (i) by heat-electric stations; (ii) by back-pressure turbines in a generating station; (iii) by steam bled from the turbines in a generating station and (iv) by direct

heat production. Their conclusions regarding domestic consumers were:—

(a) That district heating by heat-electric generation would economize in coal consumption only if a main power station were available as the source of heat supply. If a special heat-electric station had to be built, no coal saving would result and with small schemes the consumption was likely to be somewhat increased.

(b) That the annual cost to the consumer was from 50 per cent. to 100 per cent. more than with conventional methods of heating, depending on the size of scheme and method of providing the supply. However, the consumer received some three times more useful heat than with conventional methods.

(c) That if the consumption per dwelling could be reduced by, say, half, by the introduction of individual metering or by reducing the standard of heating provided, the cost per consumer would be reduced by only some 17 per cent, due to the high fixed cost.

(d) That district heating supplied by direct heating production would result in the consumption of 50 per cent. more coal than with conventional heating, and would cost the consumer at least as much and generally more than with heat-electric generation.

Mr. Prosser and Mr. Pedder qualified their conclusion regarding commercial and industrial users by adding: "district heating from a special heat-electric station would result in a substantial reduction in the coal consumed as compared with individual heating."

With regard to the supply of heat to industry, they said that the economics of any centralized scheme of heat-electric generation were inevitably greatly influenced by the cost of distribution but, where this could be limited to reasonable proportions, the result was comparable to heat-electric generation by the individual factories.

## CISTERN DESIGN for to-day and for years to come

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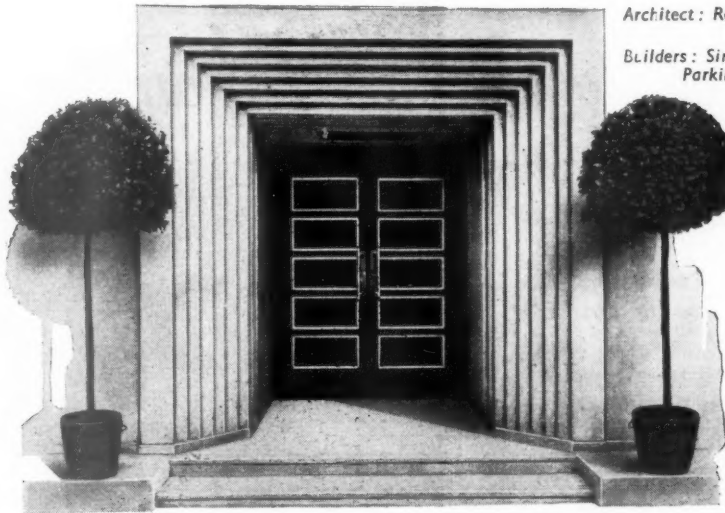
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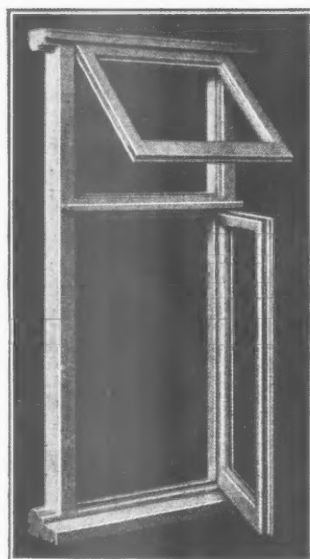
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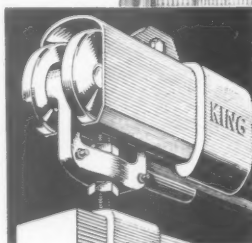
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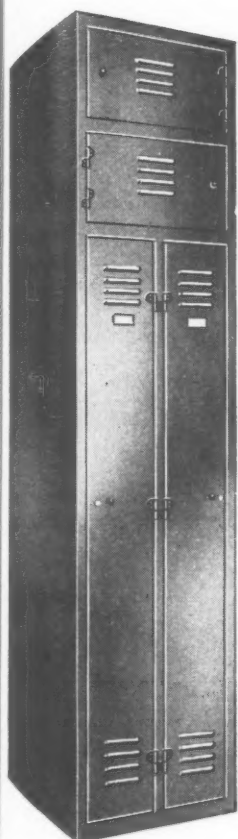


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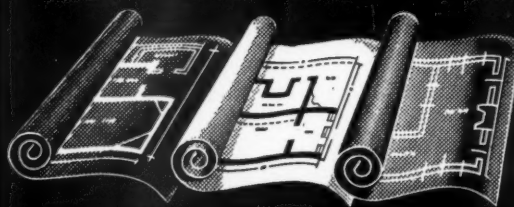
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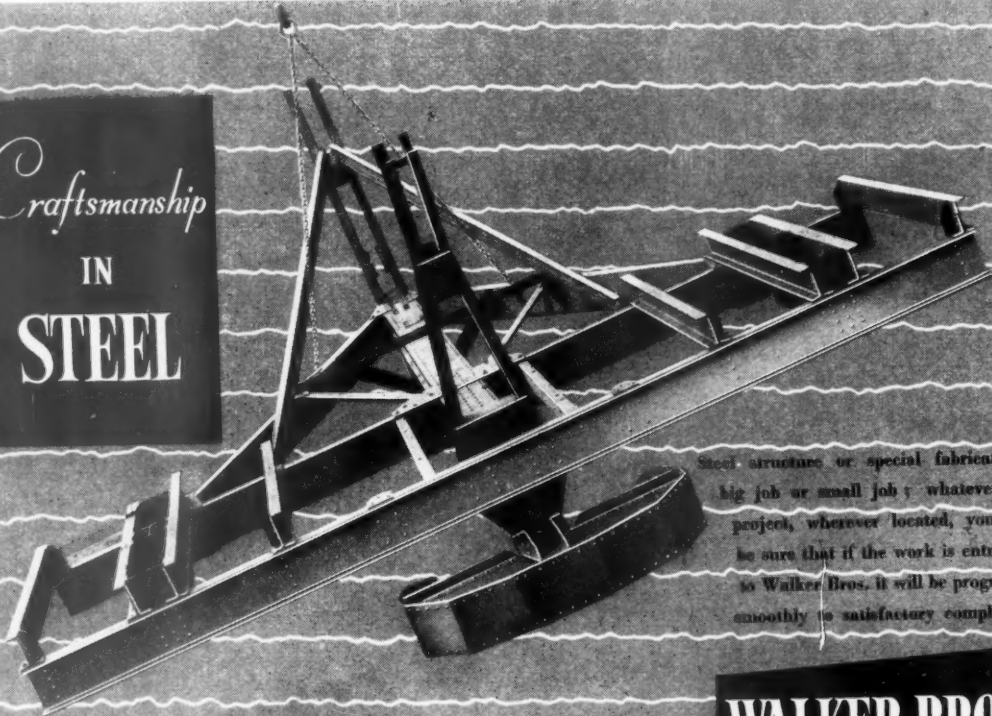
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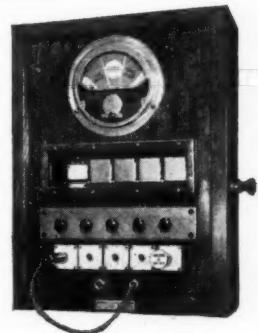
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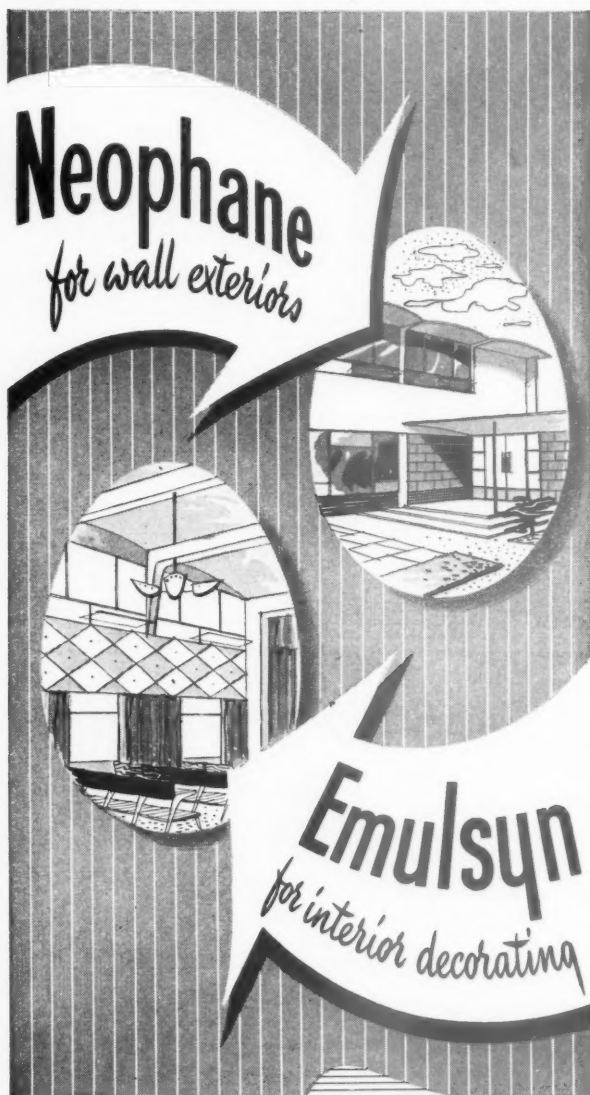
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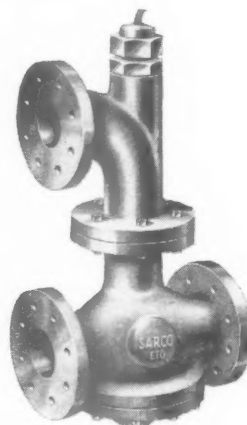
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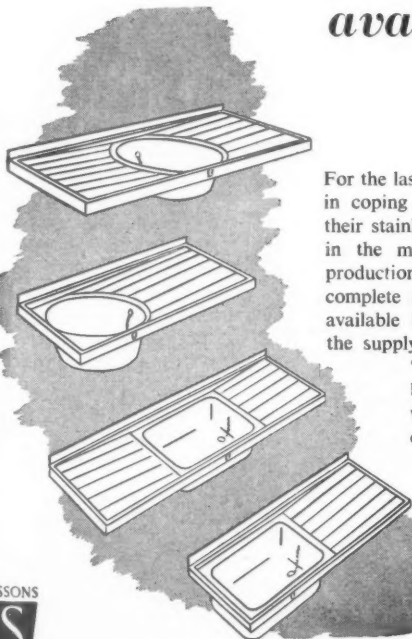
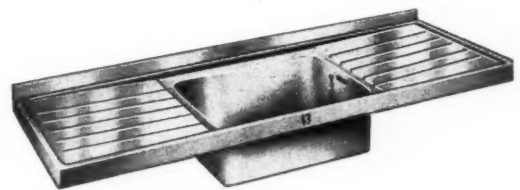
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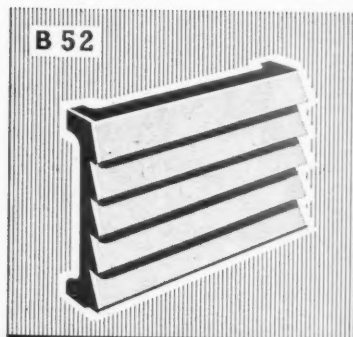


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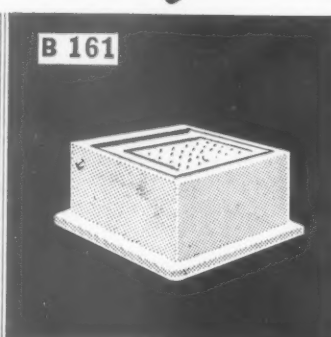
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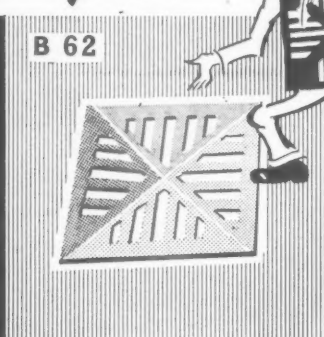
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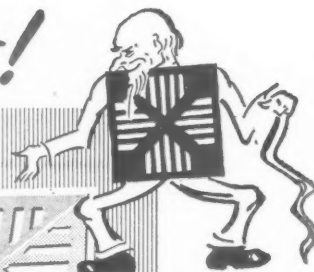
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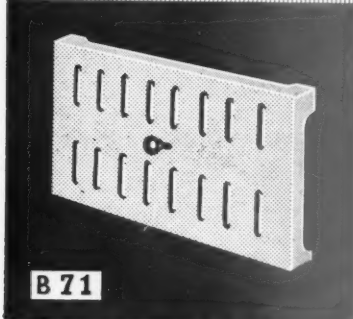
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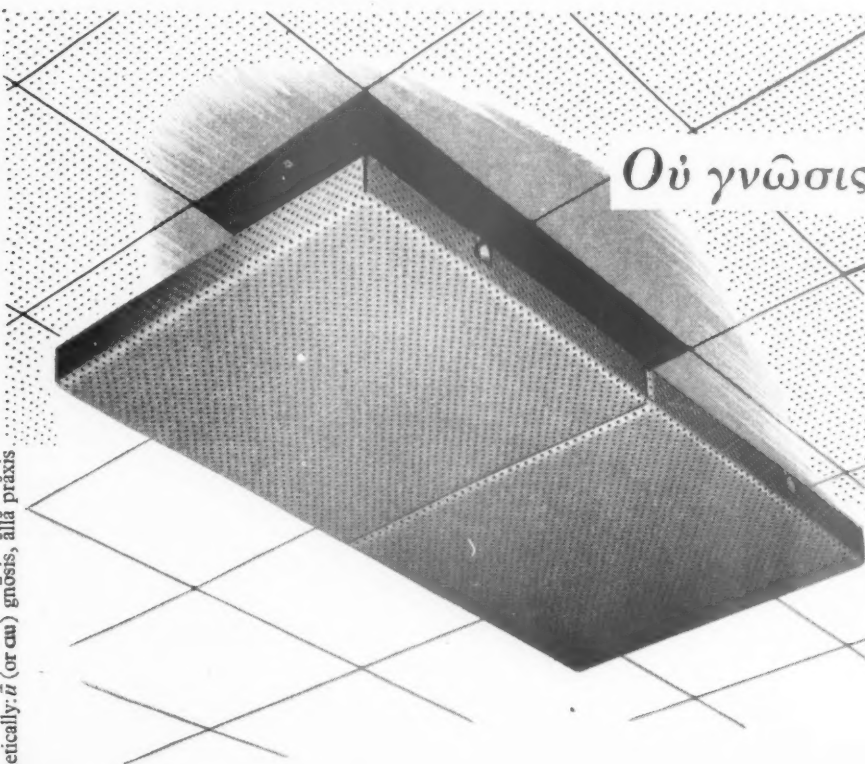
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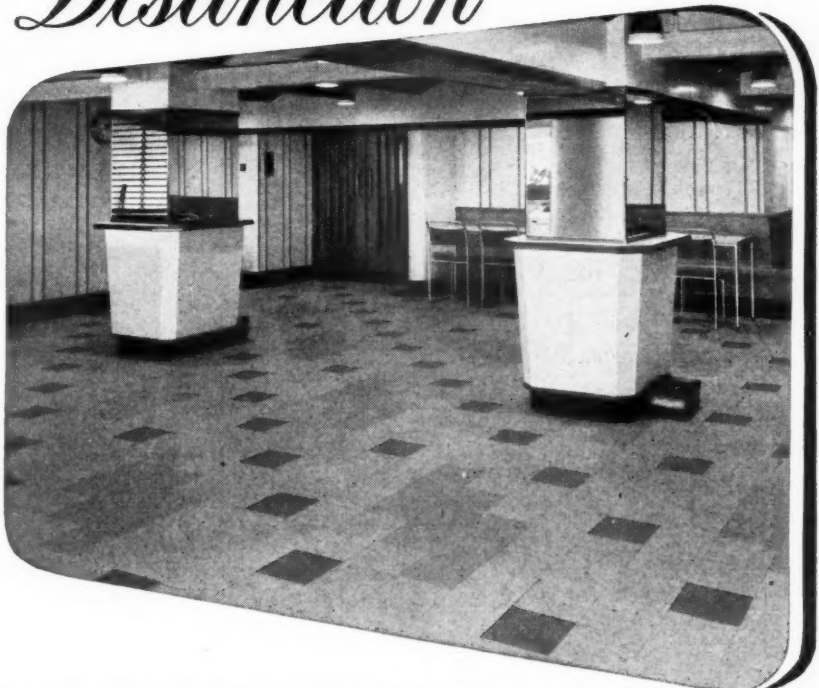
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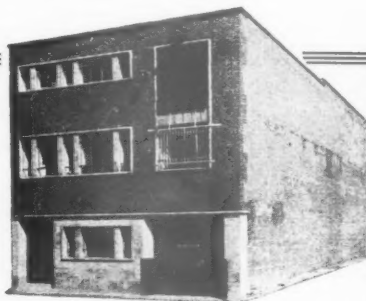
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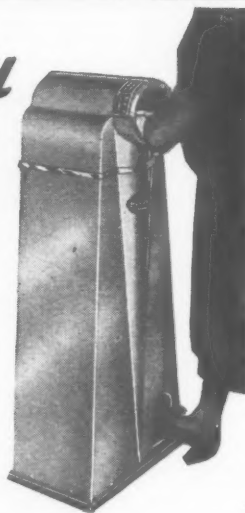
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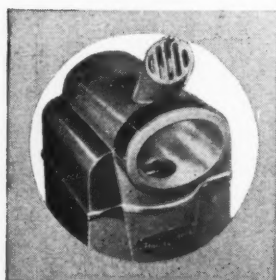
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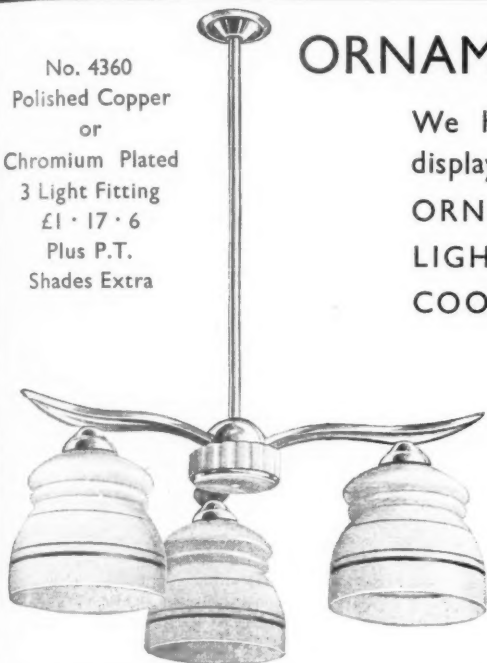
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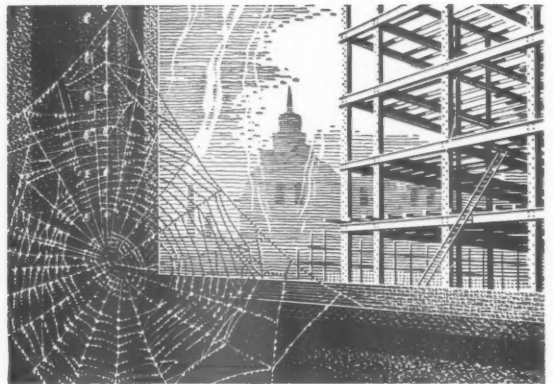
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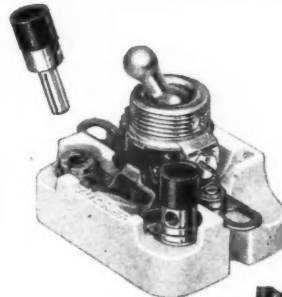
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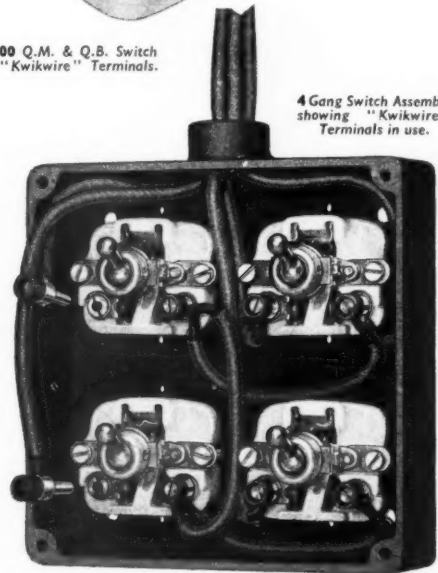
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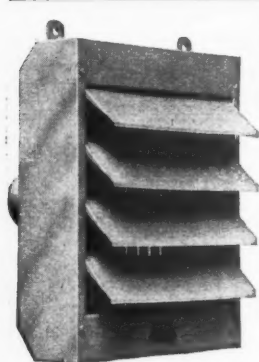
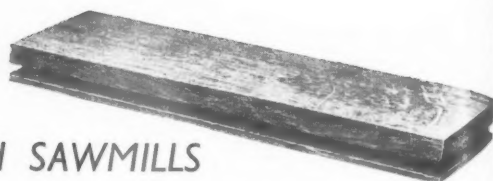
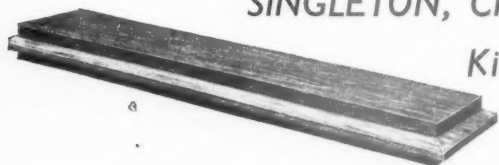
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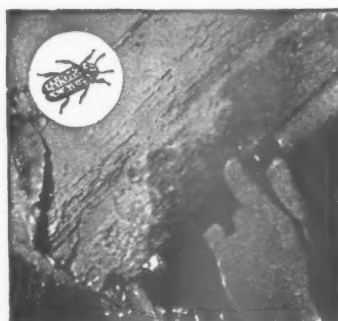


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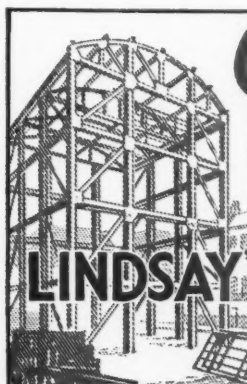
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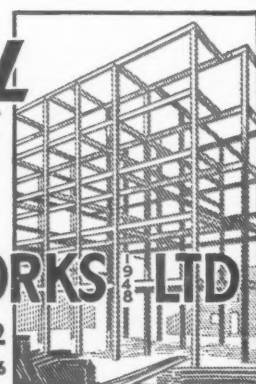


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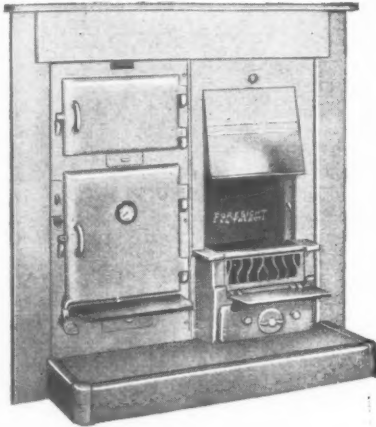
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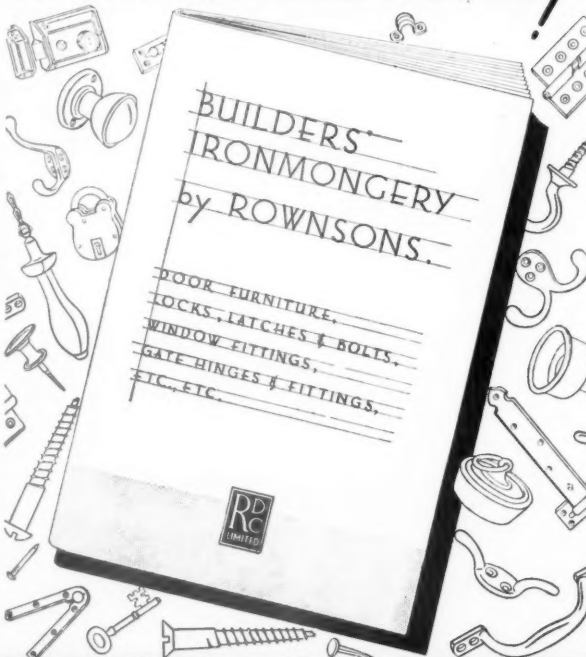
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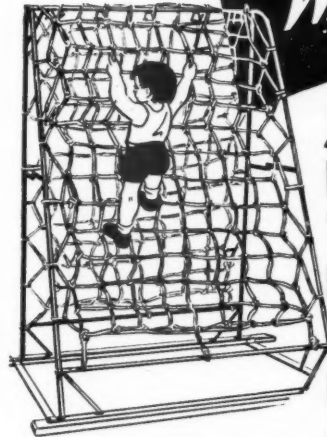
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### Exhibition Design. Edited by Misha Black, O.B.E. Contributors: Misha Black, O.B.E., Basil Spence, F.R.I.B.A., James Holland, F.S.I.A., Adrian Thomas, Richard Guyatt, Lynton Fletcher, M.A., J. Mortimer Hawkins, M.I.E.S., H. F. Clark, A.I.L.A., Dorothy Goslett, Austin Frazer.

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Applications are invited for the above appointment on the N.J.C. Scale of Salaries A.P.T. VI (£670-£735). Applicants should be Associate Members of the Town Planning Institute and an additional recognised qualification will be an advantage. Preference will be given to applicants with some architectural experience.

The officer appointed will be required to take charge of development control in the Peak District National Park and in part of north-west Derbyshire (including Buxton and Glossop Municipal Boroughs) outside the Park but adjacent to it.

Applications must be made on forms obtainable, together with further particulars of the appointment, from the undersigned and will be received up to and including 13th July 1953.

A. L. OLDACRE,  
Planning Officer.

Bath Street,  
Bakewell, Derbyshire. 9017

### LANCASHIRE COUNTY COUNCIL— PLANNING DEPARTMENT.

DEPUTY DEVELOPMENT OFFICER, A.P.T. Grade IX. £815-£935, required in Estate Development Section at Headquarters, Preston.

Applicants must possess organising ability and have had wide experience in preparing and carrying out large scale development, including industrial and housing estates and preferably schemes for accommodating population overspill. A professional qualification in architecture, engineering or surveying is essential and a planning qualification in addition would be an advantage.

Applications, stating age, qualifications, experience and two referees, County Planning Officer, East Cliff County Offices, Preston, by 15th July, 1953. 9021

### BOROUGH OF BASINGSTOKE. ARCHITECT'S DEPARTMENT. (REVISED ADVERTISEMENT.)

Applications are invited for the appointment of CLERK OF WORKS. Salary: Miscellaneous, Grade V (£480-£540). Considerable experience of Housing and Road Construction is essential. Applications, together with either copies of two recent testimonials or the names and addresses of two referees, must be submitted not later than Monday, the 6th July, to the Borough Architect (E. Almond, Dipl.Arch., A.R.I.B.A.), Municipal Buildings, Basingstoke.

MEIRION O. JONES,  
Town Clerk. 9025

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ONE ARCHITECTURAL ASSISTANT. Salary £525-£570 (A.P.T. III).

Forms of application, particulars of posts and Conditions of Service, can be obtained from the undersigned. Applications, together with copies of three testimonials, must be forwarded to the County Architect, Queen's Hill, Newport, Mon., not later than 20th July 1953.

VERNON LAWRENCE,  
Clerk of the Council.

County Hall,  
Newport, Mon. 9082

### SOUTHAMPTON C.B.C.

Appointment of (a) ASSISTANT PLANNING OFFICER, Grade V (£595-£645 p.a.), (b) JUNIOR PLANNING ASSISTANT, General Division (£160-£450 p.a.). Application forms from Borough Architect, Civic Centre, Southampton, to be returned by 18th July, 1953. 9085

### WREXHAM RURAL DISTRICT COUNCIL. APPOINTMENT OF QUANTITY SURVEYOR.

Applications are invited for the appointment of Quantity Surveyor in the Engineer and Surveyor's Department of the Council at a salary in accordance with Grade VII of the A.P.T. Division (£710 by £25 to £785). Applicants must be Associates of the Royal Institute of Chartered Surveyors (Quantities Division) and duties will consist of taking off and preparing Bills of Quantities for the works of the Department; Specification, Interim valuation and settlement of final accounts.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, and the National Joint Council's Scheme of Conditions of Service and may be determined by one month's notice in writing on either side. The successful applicant will be required to pass a medical examination. The Council will provide housing accommodation, if required. Canvassing either directly or indirectly will be a disqualification and relationship to any Member or Senior Officer of the Council must be disclosed.

Applications, stating age, qualifications, experience, present appointment and salary, together with copies of two recent testimonials, must be delivered to the undersigned not later than Friday, 10th July, 1953, in envelopes endorsed "Quantity Surveyor."

TREVOR L. WILLIAMS,  
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Applications are invited for the following positions within the Division:—  
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Candidates should have experience in design and detail of reinforced concrete structures, piled and slab foundations for heavy plant, culverts, cable subways, etc., for general building construction drainage and sanitation schemes, associated with office and administrative buildings.

The salary will be in accordance with Grade 5 (£567-£671 per annum) or Grade 6 (£433-£567 per annum) of Schedule D of the National Joint Board Agreement.

Closing date for this appointment will be the 30th June, 1953.

#### ENGINEERING DRAUGHTSMEN (MECHANICAL) CONSTRUCTION DEPARTMENT.

Senior Draughtsmen are required in the Mechanical section of the Construction Department at North Wilford Power Station. Candidates should have experience in one or more of the following:—

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#### ENGINEERING DRAUGHTSMEN (ELECTRICAL) CONSTRUCTION DEPARTMENT.

Candidates should have experience in the preparation of layouts and diagrams for the installation of E.H.T. and L.T. Switchgear, transformers, E.H.T. and L.T. cables; knowledge of protective gear systems would be an advantage.

The salary will be in accordance with Grade 5 (£567-£671 per annum) or Grade 6 (£433-£567 per annum) of Schedule D of the National Joint Board Agreement.

Closing date for this appointment will be the 29th June, 1953.

Applications should be submitted on the official form which may be obtained from the Divisional Establishments Officer, British Electricity Authority, Barker Gate, Nottingham, and should be returned to the undersigned by the dates stated. Please quote Vacancy Number.

L. F. JEFFREY,  
Divisional Controller. 9056

### HERTFORDSHIRE COUNTY COUNCIL. COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of ASSISTANT ARCHITECTS, Grade II. £495-£540.

Previous Local Government experience not essential. Applications, together with names of three referees, to the County Architect, County Hall, Hertford, Herts., not later than first post, 13th July, 1953. 9078

### COUNTY BOROUGH OF GREAT YARMOUTH EDUCATION COMMITTEE.

#### SCHOOLS ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointment on the permanent staff in the Department of the Schools Architect, Mr. F. Jackson, A.R.I.B.A.

JUNIOR ASSISTANT ARCHITECT—A.P.T. Grade III (£525 by £15 to £570). Candidates should have had good architectural training and general experience, and be capable of preparing detail and working drawings.

Previous local authority experience is not essential. Appointment will be terminable by one month's notice on either side, and is subject to the provisions of the Local Government Superannuation Act, 1937.

Canvassing will be deemed a disqualification, and candidates must disclose any relationship to any member of or holder of any senior office under the Council. Candidates who fail to do so will be disqualified or, if appointed, liable to dismissal without notice.

Applications, stating age, qualifications, experience and giving details of past and present appointments, together with copies of two testimonials, must be delivered to the undersigned not later than the 13th July, 1953.

D. G. FARROW,  
Chief Education Officer.

Education Offices,  
22, Euston Road,  
Great Yarmouth. 9055

### BARNET URBAN DISTRICT COUNCIL.

#### ARCHITECTURAL ASSISTANT, GRADE IV.

Applications are invited for the appointment of an Architectural Assistant at a salary in accordance with Grade A.P.T. IV of the National Scheme (£555-£690, plus London Weighting £30).

If necessary housing accommodation will be offered.

The appointment will be subject to:—  
(a) The provisions of the Local Government Superannuation Act, 1937;

(b) The National Scheme of Conditions of Service; and  
(c) Satisfactory passing of a medical examination.

Applications, stating age, qualifications and experience, together with the names and addresses of two referees, should reach the Engineer and Surveyor, Ravenscroft House, Wood Street, Barnet, Herts. on or before the 11th July, 1953.

ALFRED S. MAYES,  
Clerk of the Council.

Clerk's Department,  
Municipal Offices,  
Wood Street, Barnet.  
17th June, 1953. 9053

KENSINGTON B.C. require on permanent establishment ARCHITECTURAL ASSISTANT. Salary £595-£645 p.a. plus London Weighting. No housing. Applicants must be registered architects with requisite experience for Grade A.P.T. V. Applications stating age, qualifications, experience, etc., with names of two referees, to reach Town Clerk, Town Hall, Kensington, W.8. by 9th July, 1953. 9052

### METROPOLITAN BOROUGH OF SHOREDITCH.

#### CHIEF ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointment. Salary A.P.T. VIII (£790-£865). Subject to medical examination, Council's Superannuation Scheme and N.J.C. Conditions.

Applicants must be corporate members of R.I.B.A. with considerable experience in multi-storey housing, including administration of contracts.

Applications stating age, training and details of experience and giving three referees to arrive by 9th July, 1953.

C. A. JAMES,  
Town Clerk.

Town Hall,  
Old Street, E.C.1.  
June, 1953. 9051

### URBAN DISTRICT OF FELTHAM.

#### ARCHITECTURAL ASSISTANT required in the Engineer and Surveyor's Department, Grade A.P.T. V.

Salary £625 by £15 by £15 by £20 to £675. Applicants must be Registered Architects.

Forms of application, obtainable from the undersigned, must be returned, accompanied by copies of two testimonials, not later than 9th July, 1953. Canvassing directly or indirectly will disqualify and applicants must disclose, in writing, whether to their knowledge they are related to any member of or the holder of any senior office under the Council.

M. W. COUPE,  
Clerk of the Council.

Council Offices,  
Feltham, Middlesex. 9050

### SKIPTON URBAN DISTRICT COUNCIL.

ARCHITECTURAL ASSISTANT required, at salary within £625-£735. Housing accommodation available if required.

The appointment is not permanent, but is expected to continue for at least three years, subject to one month's notice on either side and N.J.C. Service Conditions.

Apply, giving age, qualifications and experience, the names of three referees, to the Engineer and Surveyor (Mr. K. B. Robinson, B.Sc. (Eng.), A.M.I.C.E.), Town Hall, Skipton, by first post, Monday, 20th July, 1953.

L. E. SMITH,  
Clerk to the Council. 9076



## COUNTY OF WARWICK.

## ARCHITECT'S DEPARTMENT.

## APPOINTMENT OF CLERK OF WORKS.

Applications are invited for the appointment of a Clerk of Works to supervise the erection of an old People's Home at Nuneaton and adaptations to a Special School at Bedworth. The appointment to be for the duration of the works, at a salary of £11 per week.

Applicants must have a thorough knowledge of all building trades and experience in superintending major building works.

Application forms can be obtained from G. R. Bamsley, F.R.I.B.A., County Architect, Shire Hall, Warwick.

L. EDGAR STEPHENS,  
County Architect.

Shire Hall, Warwick. 9070

## OXFORDSHIRE COUNTY COUNCIL.

## ASSISTANT QUANTITY SURVEYOR—Salary

A.P. & T. Grade V. (£595–£645).

## ASSISTANT QUANTITY SURVEYOR—Salary

A.P. & T. Grade IV. (£555–£600).

Applications are invited for the above posts in the County Architect's Department. Applicants should have experience in the preparation of Bills of Quantities, Valuations and Final Accounts, and preference will be given to Members of the Royal Institute of Chartered Surveyors (Quantities Division). The appointments are subject to the provisions of the Local Government Superannuation Act, 1937, and to medical examination.

Applications stating age, experience, qualifications and the names of two referees, are to be sent to the County Architect, Park End Street Offices, Oxford, not later than the 9th July, 1953.

GERALD GALE BURKITT,  
Clerk of the Council.

County Hall, Oxford. 9071

## CITY OF CARLISLE.

## APPOINTMENT OF ASSISTANT QUANTITY SURVEYOR.

Applications are invited for the post of Assistant Quantity Surveyor, A.P.T. Grade VI. Forms of application for the City Surveyor, 18, Fisher Street, to whom applications are returnable by 11th July.

H. D. A. ROBERTSON,  
Town Clerk.

9080

## CITY COUNCIL OF NAIROBI.

## STAFF—CITY ENGINEER'S DEPARTMENT.

Applications are invited from suitably qualified persons for the following appointments in the City Engineer's Department of the Council:

(a) ARCHITECTURAL ASSISTANT at a salary of £830 per annum in the salary scale £830 by £40 to £910, plus special temporary allowance which, based on a salary of £830, per annum, is £251 6s. 6d. The appointment is on contract terms for a period of four years, and six months leave on full pay will be granted on completion of the tour, with a passage allowance of up to a maximum of two adult passages. 21 days local leave will be granted after the completion of 12 months' service. Certain free medical benefits are also provided. Applicants for the post should hold an Architectural degree or final qualification of the R.I.B.A. and have had considerable experience in architectural work and design.

(b) JUNIOR ARCHITECTURAL ASSISTANT at a salary of £690 by £35 to £830 per annum plus special temporary allowance, which on a salary of £690 is at present £198 per annum. This appointment is a permanent non-established post and carries similar leave entitlement as at post (a) above. This post is subject to a probationary period of six months and the successful candidate will be required to contribute 7½ per cent. of his salary to the Staff Superannuation Fund. Applicants for this post should be studying for or have passed the Intermediate Examination of the R.I.B.A. and have had at least three years' experience in an Architect's Office.

Applications stating age, qualifications and experience accompanied by a photograph, medical certificate of fitness and certified copies of testimonials should be addressed to the Town Clerk, P.O. Box 651, Nairobi, and sent by air mail so as to reach him not later than Saturday, 18th July, 1953.

JOHN RISEBOROUGH,  
Town Clerk.

9081

## CORPORATION OF LONDON.

## APPOINTMENT OF ARCHITECTURAL ASSISTANTS.

## AUXILIARY STAFF.

Applications are invited for the appointment of an Assistant within the range of the General Grade Scale (£418×£20 to £586), including present cost-of-living addition. The commencing salary related to scale by age, minimum age 23 years, maximum salary at 30 years.

Applicants should have had good office experience and have passed or be preparing for Intermediate R.I.B.A. or R.I.C.S. Examinations.

The appointed officer will require to pass a medical examination and to contribute to the Corporation's Superannuation Fund as maintained under the City of London (Various Powers) Acts, 1931 and 1950.

Applications, giving full personal details, particulars of qualifications, experience, age, past and present appointments, and the names of two persons to whom reference may be made, should be sent to the City Surveyor, Corporation of London, 55/61, Moorgate, E.C.2, not later than Saturday, 11th July, 1953.

9097

BOROUGH OF BRENTFORD AND CHISWICK.  
APPOINTMENT OF JUNIOR BUILDING INSPECTOR AND TOWN PLANNING ASSISTANT.

Applications are invited for this appointment, at a salary according to the Miscellaneous Division, Grade III (£375–£440 p.a., plus London weighting), commencing first year.

The appointment is subject to (a) provisions of National Scheme of Conditions of Service, (b) Local Government Superannuation Act, 1937, and (c) passing of a medical examination.

Applicants must possess good knowledge of building construction and preferably have had experience in a Building Inspector's office, whilst a general knowledge of Town Planning would be a desirable qualification.

Written applications, stating age and detailing experience, etc., with names and addresses of two referees, to reach the undersigned not later than the 14th July.

W. F. J. CHURCH.

Town Hall, Chiswick, W.4. 9096

BOROUGH OF EALING require a JUNIOR TECHNICAL ASSISTANT in the Town Planning and Building Inspectors' Section of the Borough Surveyor's Department. A.P.T. I (£465 to £510 per annum), plus London weighting. N.J.C. Service Conditions, Superannuation. No housing accommodation. Canvassing disqualifies. Application forms from Borough Surveyor, Town Hall, Ealing, W.5, to be returned to E. J. Cope-Brown, Town Clerk, Town Hall, Ealing, W.5, by 20th July, 1953. 9095

## BRITISH ELECTRICITY AUTHORITY.

## EAST MIDLANDS DIVISION.

Applications are invited for the following positions within the Division:—

## CIVIL ENGINEERING DRAUGHTSMEN.

Construction Department. (Vacancy No. 22/53.)

Candidates should have experience in design and detail of reinforced concrete structures, piled and slab foundations for heavy plant, culverts, cable substations, etc., for general building construction, drainage and sanitation schemes, associated with office and administrative buildings.

The salary will be in accordance with Grade 5 (£567–£671 per annum) or Grade 6 (£433–£567 per annum) of Schedule D of the National Joint Board Agreement.

## ENGINEERING DRAUGHTSMEN (MECHANICAL), Construction Department. (Vacancy No. 44/53.)

Senior Draughtsmen are required in the Mechanical section of the Construction Department at North Wilford Power Station. Candidates should have experience in one or more of the following:—

(i) Design and layout of Power Station equipment, including Turbine-Alternators, Boiler Plant, Coal and Ash Plant, and General Station Auxiliaries.

(ii) H.P. and L.P. Steam and Feed Pipework. Condensing plant and feed heating systems.

(iii) Conveyor plant, coal handling systems, and material handling of station auxiliary equipment.

Salary and conditions of service will be in accordance with the National Joint Board Agreement, Grade 5 (£567–£671 per annum) and Grade 6 (£433–£567 per annum) of Schedule D, according to experience.

## ENGINEERING DRAUGHTSMEN (ELECTRICAL), Construction Department. (Vacancy No. 61/53.)

Candidates should have experience in the preparation of layouts and diagrams for the installation of E.H.T. and L.T. switchgear, transformers, E.H.T. and L.T. cables; knowledge of protective gear systems would be an advantage.

The salary will be in accordance with Grade 5 (£567–£671 per annum) or Grade 6 (£433–£567 per annum) of Schedule D of the National Joint Board Agreement.

The above appointments will be pensionable within the provisions of the British Electricity Authority and Area Boards Superannuation Scheme.

Applications should be submitted on the official form, which may be obtained from the Divisional Establishments Officer, British Electricity Authority, Barker Gate, Nottingham, and should be returned to the undersigned by the dates stated. Please quote Vacancy Number.

L. F. JEFFREY.

Divisional Controller. 9093

## SPENBOROUGH U.D.C. require ARCHITECTURAL ASSISTANT in Engineer and Surveyor's Department. Must be good draughtsman with experience of detail drawings, and general architectural work in connection with erection of houses, including preparation of Bills of Quantities.

Salary £555 to £600 per annum; post pensionable; medical examination. Apply giving age and three references to Engineer and Surveyor, Spenborough Town Hall, Cleckheaton, by 13th July, 1953. 9090

## HER MAJESTY'S COLONIAL SERVICE.

The following vacancies exist for Architects:—ADEN (CDE: 112/2/03). P.W.D. Appointments will be pensionable on probation in the salary range £1,020–£1,350 p.a. gross, or on agreement in the range £1,224–£1,620 p.a. Commencing salary according to qualifications and experience. In addition a temporary allowance up to £240 p.a. is at present payable.

Free 1st class passages for officer, wife and up to 4 children under the age of 18, with special arrangements for air passages for children during school holidays once each tour. Furnished

at £150 p.a. Leave at rate of 7 days for each month of resident service after minimum tour of 18 months. Free medical attention for officer and family, with reduced hospital charges. Income tax at low rates.

Candidates must be A.R.I.B.A. Duties will include design and supervision of construction of public buildings and Government Housing Scheme, Town Planning development and control.

NIGERIA (CDE: 110/14/01). ASSISTANT ARCHITECTS, Railways Department. Appointments are on contract in the salary range £895 to £1,119 p.a. gross, plus gratuity of £25 to £37 10s. for each completed period of 3 months' service on satisfactory completion of contract. Commencing salary determined by war service and approved experience.

Free 1st class passages are provided once each way each tour for an officer and his wife, and an annual maintenance allowance or free passage allowance up to £75 each is payable in respect of a maximum of 2 children. Furnished quarters, if available, are provided at a rental charge of 10 per cent. of basic salary. Leave is granted at the rate of one week for each month of resident service after a tour of 18 to 24 months.

Candidates should be A.R.I.B.A., with several years' wide general experience.

NORTHERN RHODESIA (CDE: 112/3/02). P.W.D. Appointments are on contract for 3 years in the salary scale £830–£1,410 p.a., plus gratuity of £25 to £37 10s. for each 3 months' period of service, payable on satisfactory completion of contract. Commencing salary according to war service and experience. Cost-of-living allowance at present 24 per cent. of salary, subject to maximum of £315 16s., is also payable.

Free passages are provided for the officer, his wife, and children up to the cost of one adult fare. Leave at rate of 5 days for each month of resident service. Furnished Government quarters, if available, provided at a rental of not more than 10 per cent. of salary.

Candidates, between the ages of 32 and 45, must be A.R.I.B.A., with at least 8 years' experience on the design, construction and supervision of large building schemes.

TRINIDAD (CDE: 112/38/03). CHIEF ARCHITECT, Works and Hydraulics Department. Appointment is on contract for 3 years in first instance, in the scale £1,200×£50–£1,300 p.a., plus gratuity of £37 10s. for each completed 3 months' service on satisfactory termination of agreement. A varying cost-of-living allowance is also payable.

Free passages for the officer, wife, and up to 3 children under the age of 18. Quarters are not provided, but allowance paid towards rent for private residence. Leave at the rate of 45 days a year.

Candidates must be A.R.I.B.A. or F.R.I.B.A., with at least 12 years' experience as a practising architect, or have held a responsible position in an architect's office for the same period. The selected officer will be responsible for the preparation of designs and all drawings for buildings and works, and will be required to control and administer construction. He will also act as liaison between the Department and Consulting Architects.

Colonial Office.  
June, 1953.

9094

## Architectural Appointments Vacant

4 lines or under, 7s. 6d.; each additional line, 2s.

The engagement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man aged 18-64 inclusive or a woman aged 18-59 inclusive unless he or she is, or the employment is, excepted from the provisions of the Notification of Vacancies Order, 1952.

ARCHITECTURAL DRAUGHTSMAN wanted Maidenhead; permanent position; good salary and prospects. Full particulars training, experience, age, salary, to Box 8668.

ASSISTANT required for large general Architectural Practice with offices in Maidenhead. Some experience in specification writing essential. Salary £300 to £500, according to experience. Box 8933.

ARCHITECTURAL ASSISTANTS required by a firm specialising in prefabrication, for tracing and detailing. R.I.B.A. Inter. standard considered. Write, stating age, etc., and salary required. Box 9043.

ARCHITECTURAL ASSISTANT required immediately for general practice. Salary: £400 to £600, according to experience. Apply H. N. Jepson & Partners, Midland Bank Chambers, Nuneaton. 9042

ARCHITECT'S ASSISTANT required for varied work. Intermediate standard or higher, and at least two years' office experience. Apply in writing, stating age, etc., and salary required. Cordingley & McIntyre, Chartered Architects, The College, Durham. 9029

QUALIFIED ARCHITECT wanted immediately for temporary post. Salary: £62 10s. per month. Sanctuary & Son, Chartered Surveyors, Bridport, Dorset. Telephone 2216. 9045

RESPONSIBLE ARCHITECTURAL ASSISTANT wanted immediately for temporary post, principally for small alterations and preparation of Specifications and supervision of maintenance repairs and decorations for licensed premises. Apply stating age, experience and salary required to J. S. Thomson, F.R.I.B.A., 49, Wimbledon Hill Road, S.W.19. 9092

**ARCHITECTURAL DRAUGHTSMAN** (Male or Female) required for small private practice. Applicant should have general knowledge of building construction, be capable of preparing working drawings and details under supervision, and be willing to give help generally in running the practice. Please reply stating age, experience and salary required to J. G. Simpson, A.R.I.B.A., 94, High Road, Woodford Green, Essex. 9091

**REQUIRED** immediately **ARCHITECTURAL ASSISTANT** with two to three years' office experience, and to be of R.I.B.A. Intermediate standard. Box 9087.

**SOUTHERN RHODESIA.** Important Salisbury Office require **SENIOR DRAUGHTSMAN**, number of years' responsible experience, age preferably 30-40. Initial salary between £700 and £900 p.a. with annual increments. Fare out repaid, assistance with return passage and with accommodation. Write Box 22/4, Overseas Technical Service, 5, Welldon Crescent, Harrow. 9086

**SENIOR ARCHITECTURAL ASSISTANT** required by London firm. Should be Associate R.I.B.A., age about 35. Must be fully experienced both in design and construction. Box 9084.

**ARCHITECTURAL ASSISTANTS** required in large London private office for varied work. Intermediate standard and Higher. Apply in writing stating experience, age and salary required. Box 9103.

**ARCHITECT'S ASSISTANT** required, Intermediate to Final standard. Must have two years' office experience and be capable of carrying out surveys, preparation of working drawings, and brief specifications. Contributory pension scheme. Apply, stating age, experience, and salary required, Schwepes, Ltd., 1/4, Connaught Place, W.2. 9058

**D. E. MAY & PARTNERS** require **SENIOR ASSISTANT** for East Africa. Man with 3 or 4 years' post-qualifying experience, administrative ability, and preferably single. Salary according to experience, etc.; free return passage on initial 3-year contract; Brief personal and professional details to Box 10/7, Overseas Technical Service, 5, Welldon Crescent, Harrow, Middlesex. 9072

**REQUIRED**, for Architect's office in Victoria, **ARCHITECTURAL ASSISTANT**, Intermediate standard. Telephone Victoria 5531. 9063

**APPLICATIONS** invited from young, imaginative **ARCHITECTS**, recently qualified, having special interest in and flair for retail shop design and modern store interiors, for appointment to the position of Staff Architect to large multiple tailoring organisation. Commencing salary £600 per annum. Superannuation rights. Good prospects for advancement. Alexandre, Ltd., 19, Lady Lane, Leeds. 2. 9074

**ARCHITECTURAL ASSISTANT** required in large Multiple Shop Company. Knowledge of shopfitting an advantage. Surveys and general working drawings. Staff pension scheme available after qualifying period, 5-day week. State age and salary required. Chief Architect, Box 9079.

**ARCHITECTURAL ASSISTANT**, Intermediate standard or approaching Final, with previous office experience. Commercial and industrial practice. Watson, Johnson & Stokes, Victoria Square, Birmingham. 9049

**ARCHITECTURAL ASSISTANT**, Final standard, with General Office experience. Salary according to ability and experience. 5-day week. W. David Hartley, 14, Mackenzie Street, Slough (telephone Slough 20926). 9066

**JUNIOR ASSISTANT** required, Intermediate standard, R.I.B.A. Working drawings, specifications. Some previous office experience for general practice. Apply in writing, stating age, experience, and salary, to Henry C. Smart & Partners, L.R.I.B.A., 120, Moorgate, London, E.C.2. 9067

**ARCHITECT'S ASSISTANT** required in South-West London. Intermediate standard. Accustomed to busy office and with good knowledge of construction. Salary and experience to Box 9064.

**QUALIFIED SENIOR ARCHITECTURAL ASSISTANT** required at once. Able to take charge of industrial contracts. Apply in writing, Ramsey, Murray & White, 32, Wigmore Street, W.1. 9059

**ARCHITECTURAL DRAUGHTSMAN**, Intermediate standard, required in the office of the Surveyor to the University, 5, South Parks Road, Oxford. Some office experience essential. No housing accommodation available. State age, National Service position and salary required. 9101

**FULLY** qualified and experienced **SENIOR ASSISTANT** to take charge of drawing office. Varied projects including industrial, commercial, ecclesiastical. Opportunity for one with contemporary outlook. Five day week and good salary offered to suitable candidate.

**JUNIOR ASSISTANT**, intermediate or just qualified with some experience, also required. Reply in writing, stating age, experience and salary required to Allyn & Mansel, F./R.I.B.A., Staple Inn Buildings, High Holborn, W.C.1. 9102

**JUNIOR ASSISTANT** required for general practice in Hampshire. Must have experience of Architect's and Surveyor's office. Apply giving full particulars and salary required to Box 9083.

**ARCHITECTURAL ASSISTANT**, with experience, required for general practice. Reply, stating experience and salary required to Thomas Worthington & Sons, 178, Oxford Road, Manchester, 13. 9077

**ARCHITECTS' ASSISTANT** required for Eastbourne Office. Intermediate standard. Able to prepare working drawings and specifications. Write stating age, experience and salary required to Box 9104.

#### CO-OPERATIVE WHOLESALE SOCIETY LTD.

**ARCHITECT'S DEPARTMENT, LONDON**

**APPLICATIONS** are invited for the following:

**STRUCTURAL ENGINEER'S ASSISTANT**, aged 20/25. Should have experience in structural steel design to B.S.S. 449, 1948, and C.P. 113. Experienced **WORKER-UP** with thorough knowledge of Abstracting and Billing for Quantity Surveyor's Section.

**ARCHITECTURAL ASSISTANTS**, aged 21/25, of about Inter. R.I.B.A. standard.

The appointments are permanent and offer prospects of up-grading.

Successful candidates will be required to undergo medical examinations for compulsory superannuation scheme.

Applications stating age, experience, qualifications and salary required to W. J. Reed, F.R.I.B.A., Chief Architect, Co-operative Wholesale Society, Ltd., 99, Leaman Street, London, E.1. 9099

#### Architectural Appointments Wanted

**ARCHITECT**, 18 years' varied experience in well-known private offices, seeks responsible senior appointment in London area. Box 9028.

**ARCHITECTURAL ASSISTANT**, Dipl. Arch., age 26, requires post, preferably West Sussex area. Box. 714.

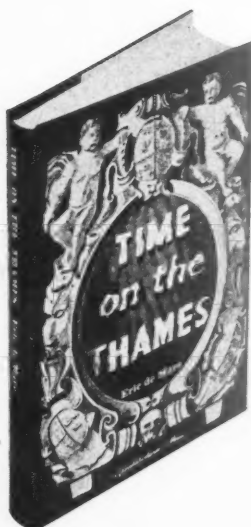
**R.I.B.A.**, 35 years' old, with specialized hospital knowledge, also good general experience, seeks employment with established practice on or near the South or S-West Coast with view to eventually obtaining a partnership. Own car. Salary by arrangement. Box 715.

**R.I.B.A.** Diploma 10 years' post qualifying experience of a variety of good class work, seeks senior appointment offering tangible prospects. Box 718.

**QUALIFIED** Assistant Architect, Dip. Arch. (Birm.), A.R.I.B.A., age 31, 3 years' experience general private practice, requires responsible and progressive position in office, Oxford area, preferably one with contemporary outlook. Own car. Box 717.

## Time on the Thames

by ERIC DE MARÉ



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**YOUNG** man, diploma in architecture (Ceylon), 2 years' experience Junr. Archt. Asst. under Chief Architect, Public Works, Ceylon, proceeding England September to continue studies for A.R.I.B.A., seeks post under chartered architect. Box 716.

**ARCHITECT**, B. Arch., A.R.I.B.A., A.M.T.P.I., age 39, requires part time employment, about 3 days weekly in London, Birmingham, Leicester area; car available. Box 8998.

**SENIOR ASSISTANT** (32), 12 years' office experience, mainly conversion and alterations, and used to handling medium jobs to completion, desires responsible position in London office. Box 712.

**ASSISTANT** (27), B.Arch., A.R.I.B.A., A.M.T.P.I., Inter. I.L.A., woman, 4 years' experience, seeks position in London office. Box 715.

### Other Appointments Vacant

4 lines or under, 7s. 6d.; each additional line, 2s. The engagement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man aged 18-64 inclusive or a woman aged 18-59 inclusive unless he or she or the employment, is excepted from the provisions of the Notification of Vacancies Order, 1952.

**METALWINDOW DRAUGHTSMAN** required. Good salary; pension scheme; canteen on premises; modern drawing office. Morris-Singer Co., Ferry Lane Works, Walthamstow, London, E.17. 8936

**ARCHITECT** practising N.W.3 district requires secretary 5 mornings weekly. Box 9088.

**FILLING** agents required in the following districts by eminent manufacturing organization dealing with precast, post-tensioned concrete buildings, light-weight cellular concrete blocks, units and fascias in terrazzo, marble, granite, stone and vitrolite. Advertisers are proprietors of unique engraving process for granite and other materials.

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- (3) York.
- (4) Middlesbrough.
- (5) Newcastle.
- (6) Edinburgh.

Interested parties must have established first class connections with public and private architects, executives of local authorities, builders and shop-fitters, etc., and already represent organizations of repute whose goods do not compete with the above.

Apply Blakeley (Sheffield), Ltd., Bridge Works, Hope Via Sheffield. 9089

**SENIOR QUANTITY SURVEYOR** required by well-known Industrial Organisation. Applicants must be qualified persons and well experienced. The appointment is permanent and pensionable and carries a minimum salary of £1,000 p.a. Applicants should be within the age range of 35-45. Please reply, giving full details of age, qualifications and experience, to Box A.M.7978, A.K. Advg., 212a, Shaftesbury Avenue, London, W.C.2. 9060

**APPLICATIONS** are invited for the following appointments in the Civil Engineering and Building Departments of The Steel Company of Wales, Ltd., Steel Division, Port Talbot:—

- (1) **SENIOR ENGINEER**, with overall responsibility for Buildings and Steel Structures.
- (2) **ASSISTANT ENGINEER**, on General Building work, including Industrial and Administrative Buildings.
- (3) **ASSISTANT ENGINEER**, on Structural Steelwork. A sound knowledge of Electric Arc Welding essential.

The duties connected with these appointments are primarily maintenance, alterations and minor new work. Practical experience and professional qualifications are essential, particularly for the senior appointment. Salary will be commensurate with qualifications and experience. Applications in own handwriting, giving details, including age, experience, qualifications, etc., should be addressed to the:—

**PERSONNEL SUPERINTENDENT**,  
The Steel Company of Wales, Ltd.,  
P.O. Box No. 3,  
Port Talbot. 9061

**WANTED URGENTLY**, full-time secretary/ shorthand-typist for Architect's pleasant office in St. John's Wood. Box 9100.

**ASSISTANT QUANTITY SURVEYOR** for professional office in Northern Rhodesia. Applicants of R.I.C.S. Inter-standard will be encouraged to qualify. Initial salary £600 p.a., rising to £720 on passing Final. Single men only. Accommodation provided at £6 per month. Apply, quoting Box 37/3, to Overseas Technical Service, 5, Weldon Crescent, Harrow. 9073

**IMPERIAL CHEMICAL INDUSTRIES, LIMITED**, Metals Division, has a vacancy for a Senior Design Draughtsman with considerable experience of structural steelwork design with special reference to large steel framed industrial buildings. Candidates should possess at least Higher National Certificate. Write stating age, experience, and qualifications, to Assistant Staff Manager, I.C.I. Metals Division, Witton, Birmingham, 6. 9105

**DRAUGHTSMEN** required for detailing and design of Precast Reinforced Concrete Units and setting our Masonry. A superannuation scheme in operation. Write giving full particulars of age, experience and salary required to Girlings Ferro-Concrete Co., Ltd., Rothwell, Nr. Leeds. 9106

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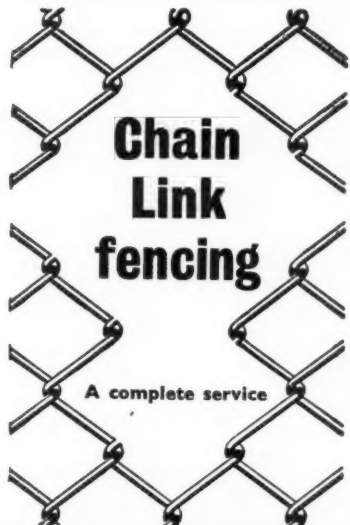
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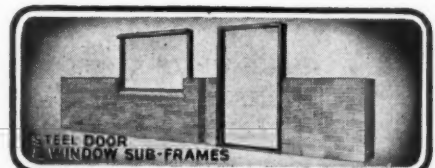
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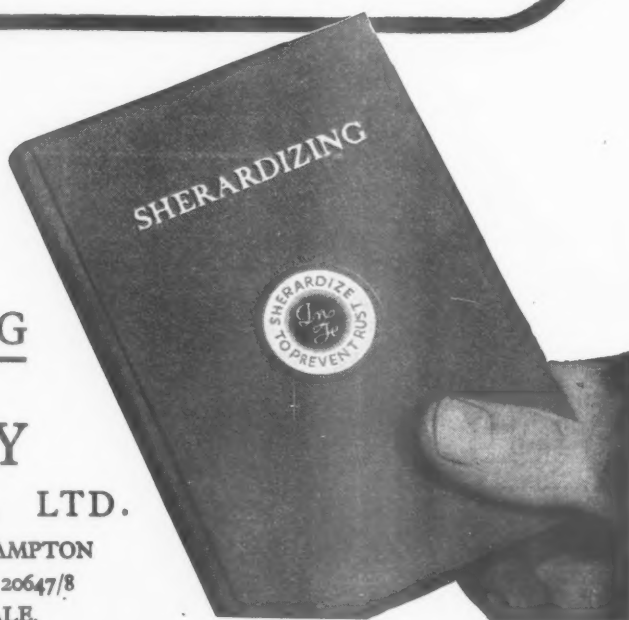
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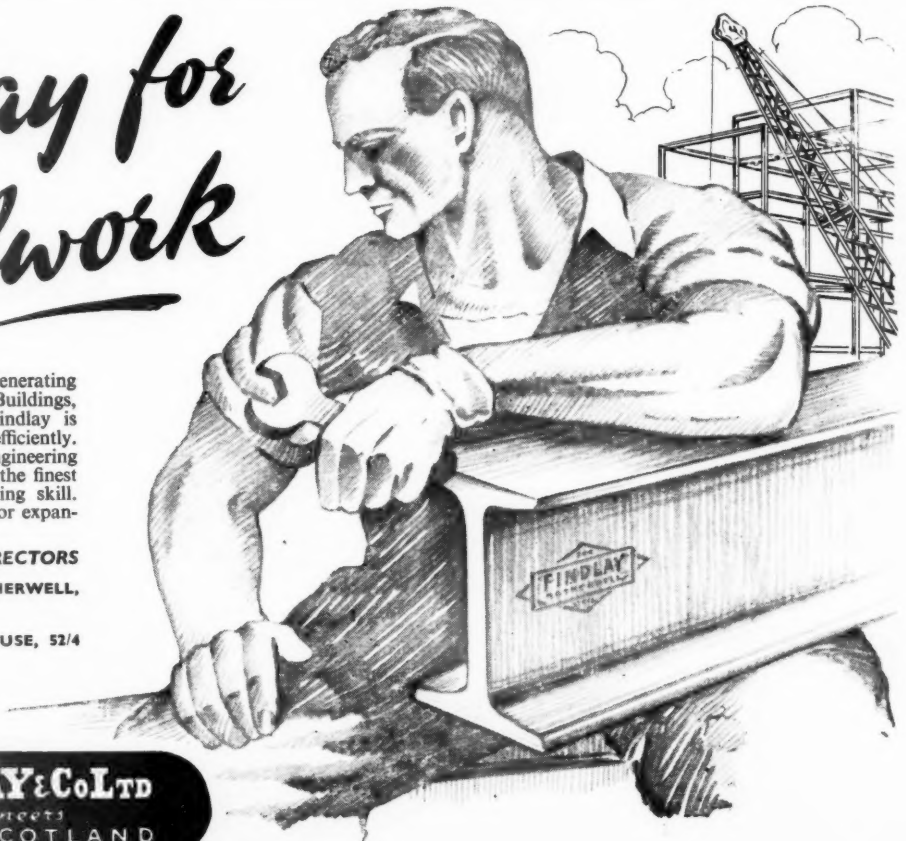
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