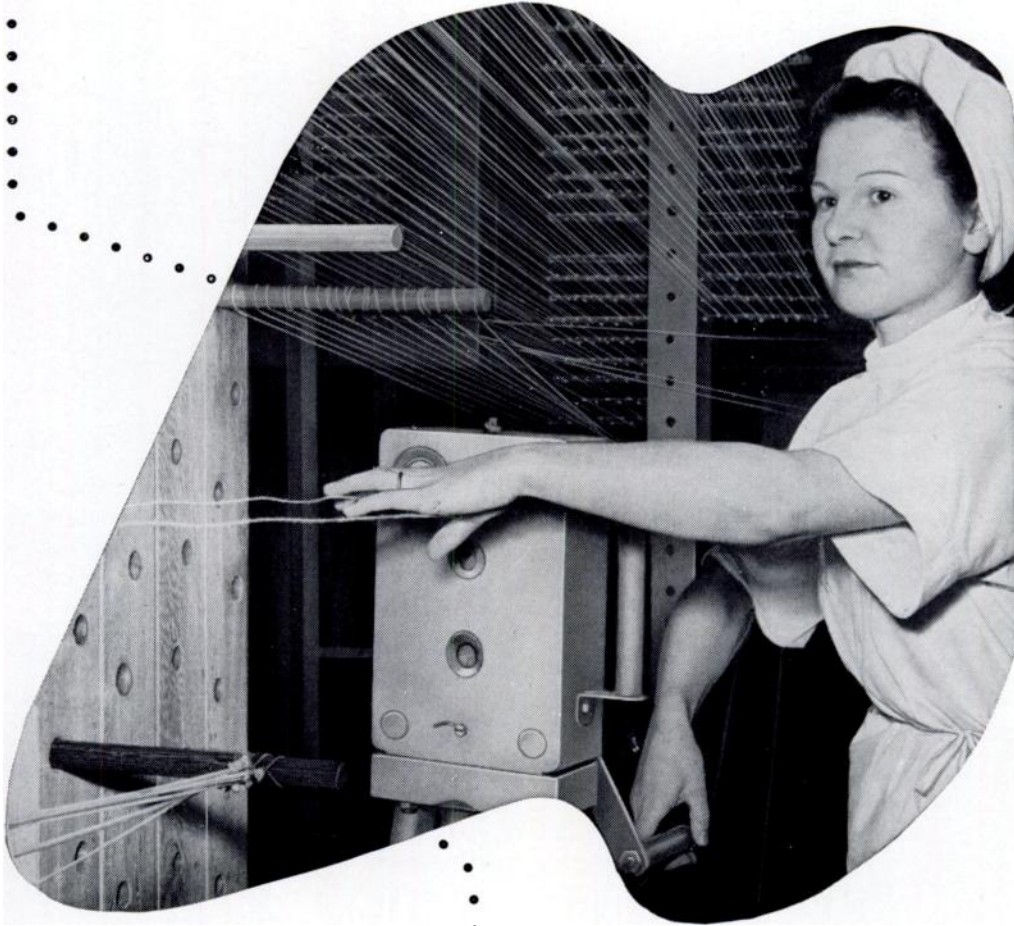


After final scraping, ribbon is measured  
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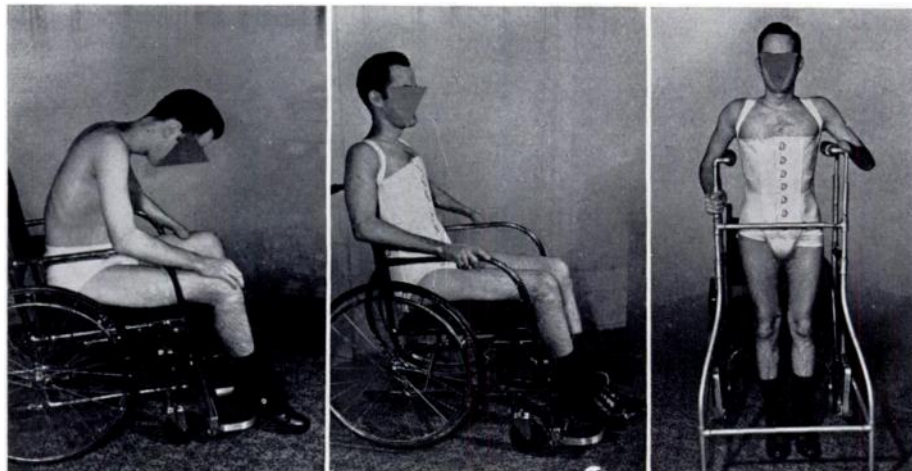
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# A **SPENCER** Support for the Paraplegic Patient



This paraplegic patient, aged 25, developed symptoms in 1943 of stiffness in the neck and pain in the right hip. Condition was diagnosed as a tumour inside the spinal cord (glio Blastoma multiform). The site of the tumour : C.4, 5, and 6.

First laminectomy was performed 1943 ; a second operation was performed in March 1946. X-ray therapy was given in April 1946, September 1946, and December 1946.

A Spencer Dorso-lumbar Support with rigid bracing at back and front was applied in October 1946, which enabled the patient to use his special walker for exercise. Abdominal muscles are paralysed and a special Spencer Abdominal Spring Pad incorporated in his Support has been helpful in assisting respiration and relieving symptoms of constipation and indigestion.

Prognosis is poor but the patient is comfortable so long as he wears the support and does not attempt to be too active. Because he is unable to sit erect without high support to his back and uplift for his diaphragm and chest, Spencer Designers created the Support (as shown) to come up well over the chest to enable the patient to sit up with more comfort. Elastic gores at top sides assist in respiration. Special hip pads protect the prominent hip bones.

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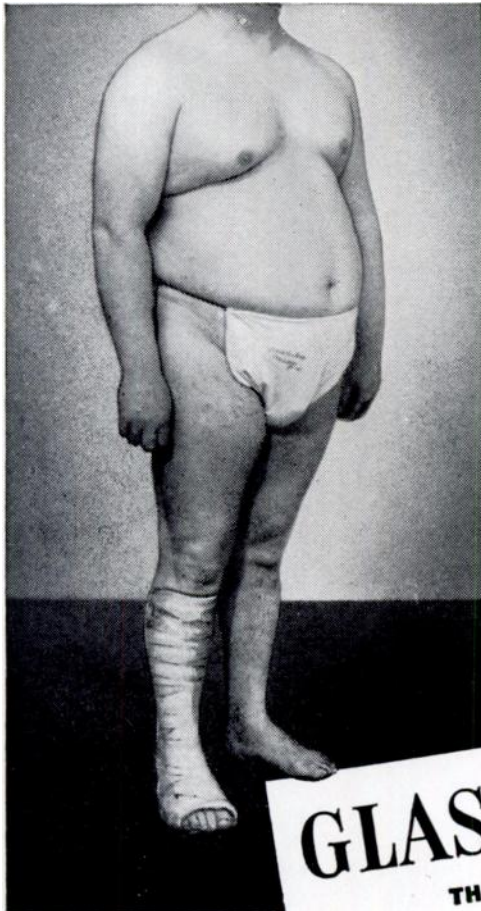
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*Trained Spencer Retailer-Fitters resident throughout the Kingdom, name and address of nearest Fitter supplied on request*

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# Glassona Feather-weight cast withstands weight of 19-stone patient



A transverse metatarsal fracture of the right foot in a man weighing 19 stones was treated by the application of a below-knee plaster cast.

After 7 days the cast broke down owing to the excessive weight of the patient.

Over a period of 11 weeks four new plaster casts were applied and one repaired. *No* cast was strong enough for the patient's weight.

The below-knee Glassona cast was applied, and the patient discharged to the out-patients' department.

The result was satisfactory, the patient returning to work wearing only an over-boot without walking appliance. The cast was retained for 7 weeks, needing only repair underneath through wear—on removal the fracture was united.

*This actual case graphically illustrates the exceptional strength and toughness of Glassona the new feather-weight splinting material.*



'Glassona' Bandages are obtainable in the following sizes: 3" and 4" x 4 yards.

- Full details of 'Glassona' may be obtained from SMITH & NEPHEW LTD., WELWYN GARDEN CITY, HERTS., the marketing organisation of T. J. Smith & Nephew Ltd., Hull

# adjustable the **Vitallium<sup>®</sup>** *McLaughlin Intertrochanteric Appliance*

A NEW IDEA IN TREATING TROCHANTERIC FRACTURES.

## EASIER INSERTION

Incorporates the advantages of nail-plate combination. Permits wider selection of nail lengths.

## ADJUSTABLE

Angular relation of the femoral neck and head to the femoral shaft is readily fixed in most desirable position. 13 three-degree steps are provided between 113 degrees and 158 degrees.

## POSITIVE LOCK

An improved feature over prior designs of this appliance. The nail is gripped securely by the plate teeth and the set screw. The locking collar engages in keyed slots. The set screw shaft is squeezed by the locking collar. These features prevent loosening of the screw or collapse of the angle.

This improved and strengthened Vitallium appliance has been devised for intertrochanteric and subtrochanteric fractures and for high femoral osteotomies.

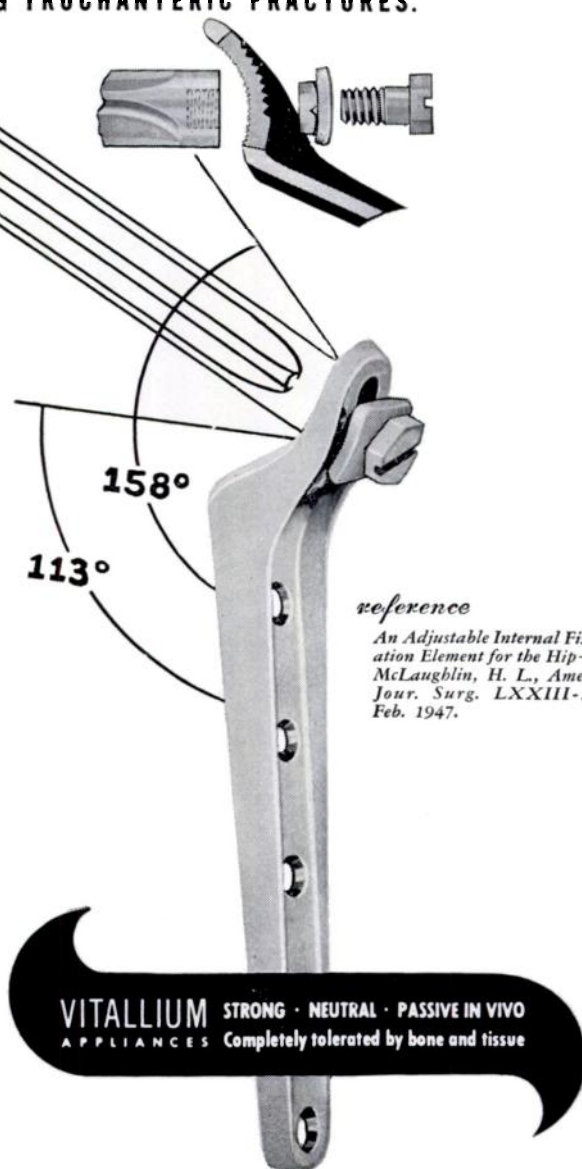
Regular Vitallium hip nails are used with the McLaughlin appliance. The many surgeons who prefer a nail-plate combination can now standardize on Vitallium appliances for all hip fractures—enjoy the inestimable advantage of using the single metal, the cobalt-chromium alloy of which Vitallium appliances are made, which is inert, completely compatible with bone and tissue and causes no bone necrosis.

Vitallium appliances are made by the Austenal-devised Microcast<sup>®</sup> Process, and can be readily identified by their characteristic "satin" finish.

*some other Vitallium appliances—*

Hip Nails • Bone Plates and Screws • Spinal Fusion Plates • Fracture Nails • Bile Duct Tubes • Blood Vessel Tubes • Skull Plates

*Send for descriptive leaflet No. VS224, giving full details of the McLaughlin appliance.*



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# Conn Improved Pneumatic Tourniquet

Manufactured by Zimmer Orthopaedic Limited

**Sensitive pressure gauge** has greater accuracy, durability. "Arm" and "leg" pressures indicated on the dial are carefully calculated so as to produce hemostasis in practically all patients—even those with hypertension and obesity.

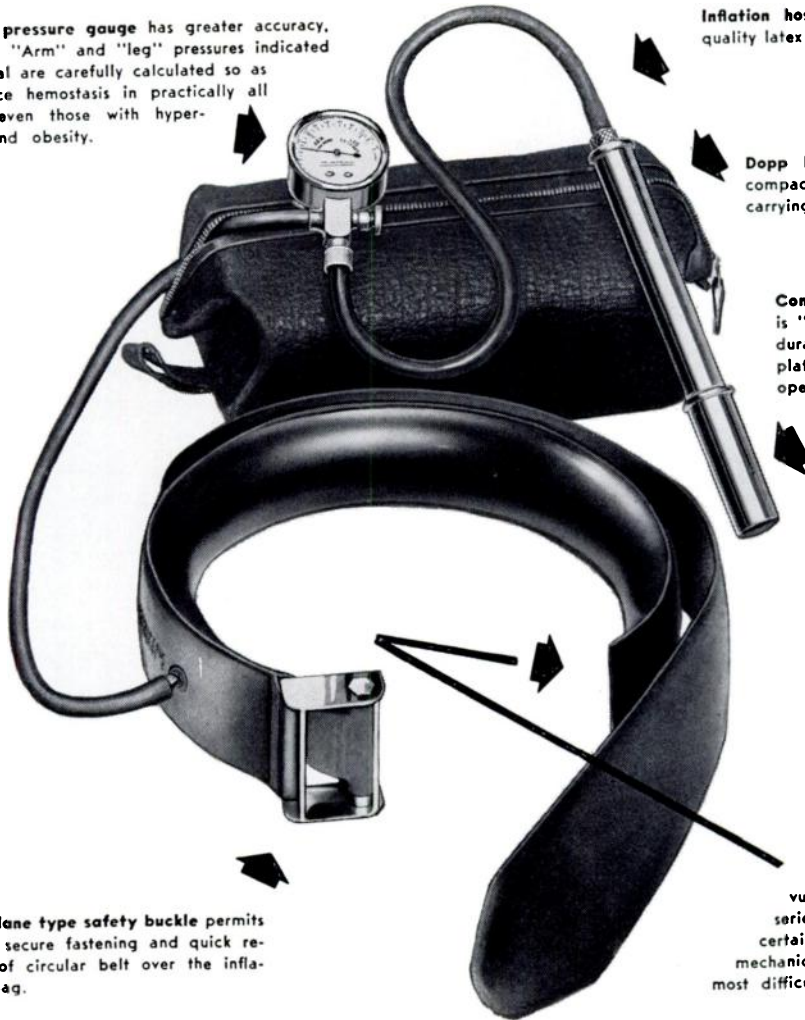
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**Dopp Kit**—Unit packs compactly into handy carrying case.

**Convenient pump** is "bicycle" type—durable, nickel plated and easily operated.

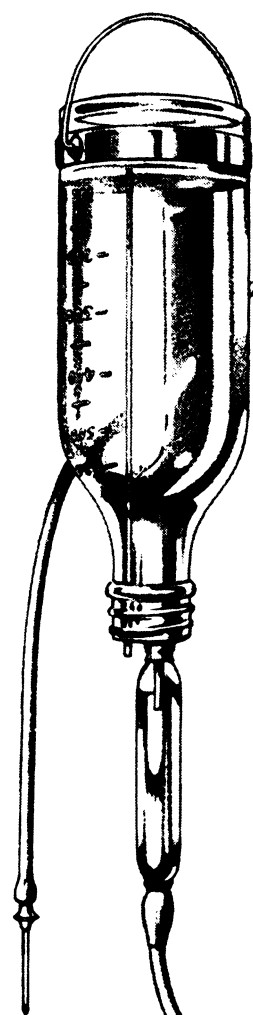
**Aeroplane type safety buckle** permits quick, secure fastening and quick release of circular belt over the inflation bag.

**Inflation bag** is vulcanized in a series of cures—certainly one of the mechanical rubber items most difficult to produce.



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"Dextraven" is the preparation of choice for the restoration of blood volume. The British Encyclopaedia of Medical Practice (Medical Progress, 1952) states: "There is little doubt that the narrow fraction dextran will revolutionise supportive therapy and may be regarded as one of the major advances of the year."—TRULY A BLOODLESS REVOLUTION.

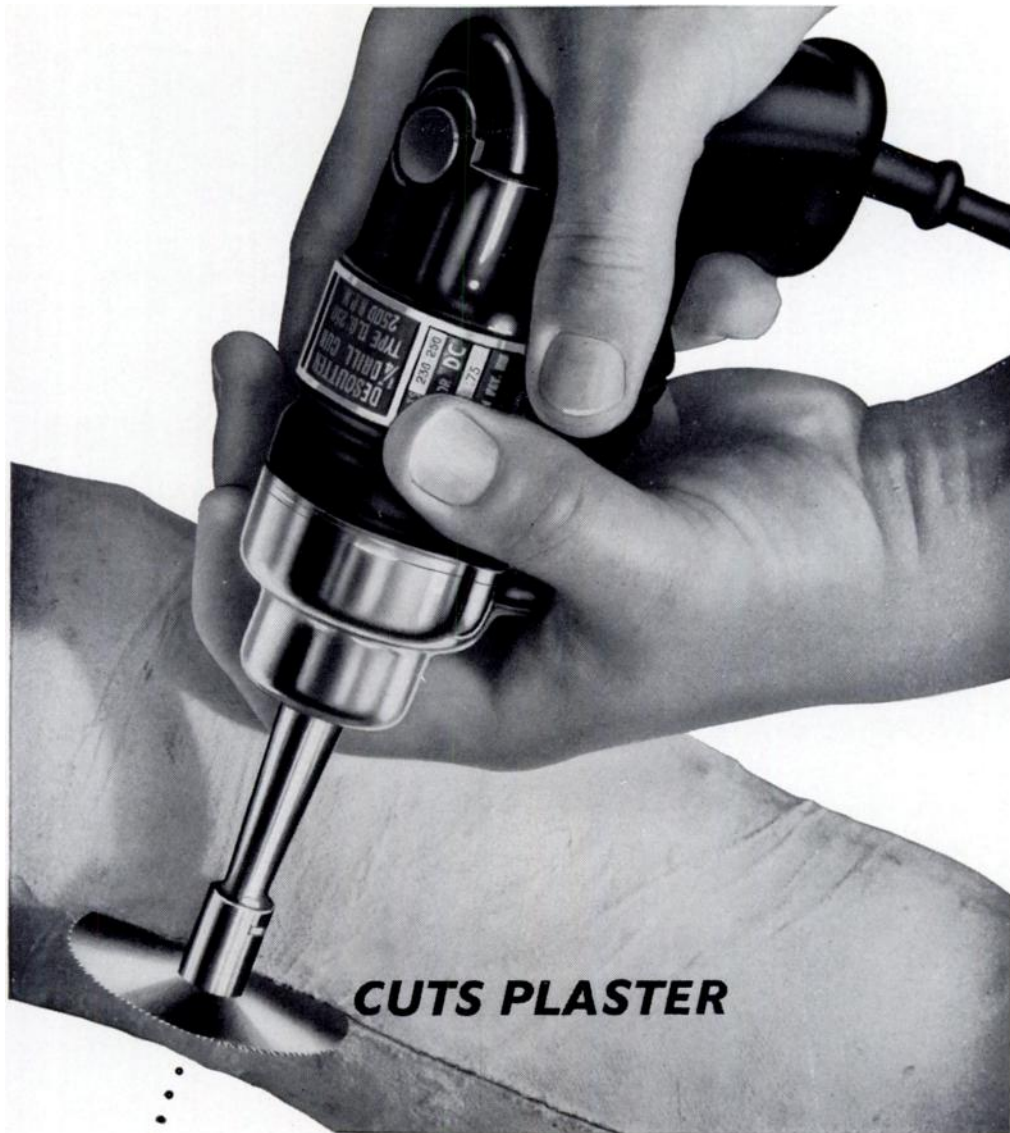
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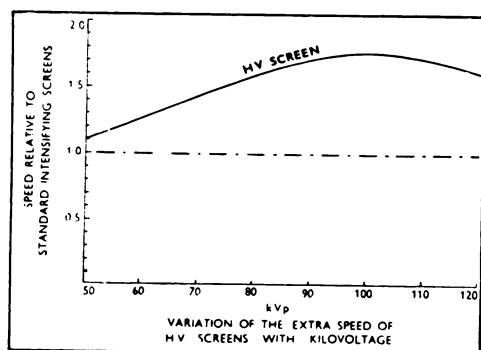
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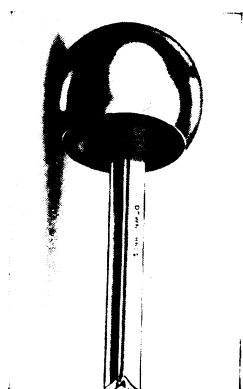
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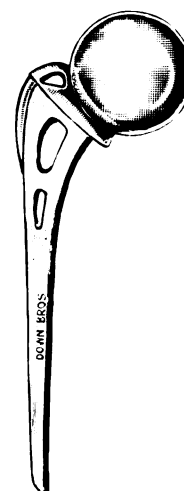
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*Can be used  
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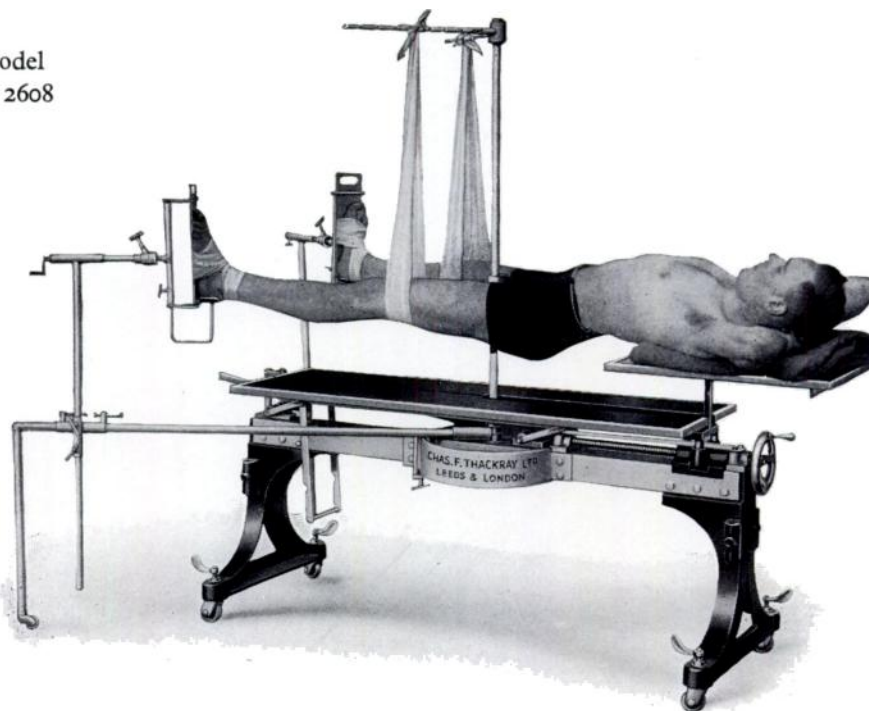
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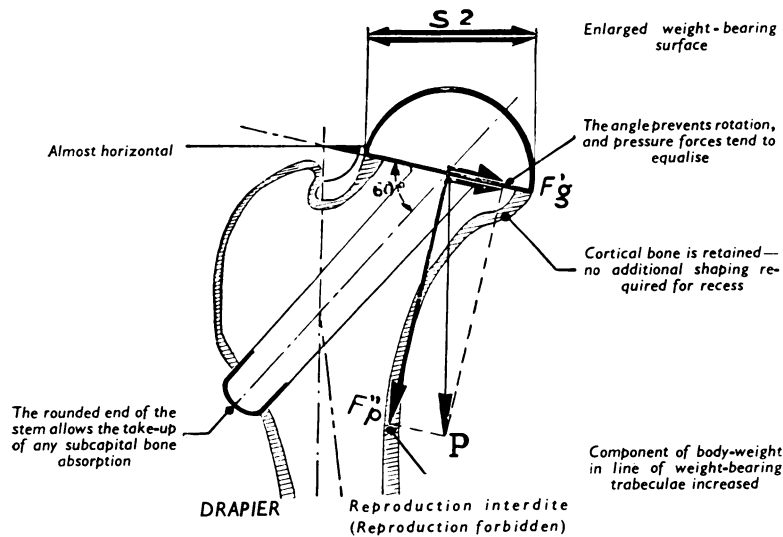
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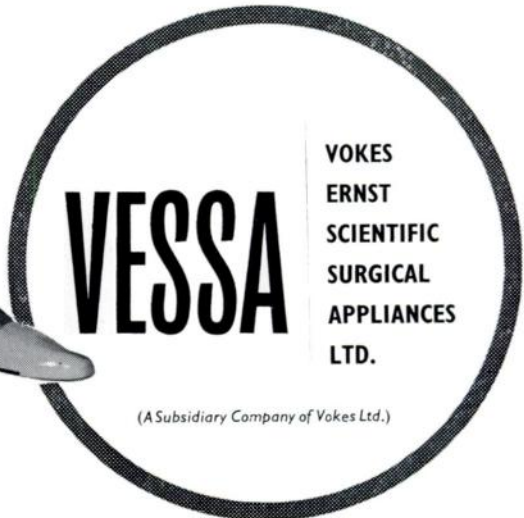
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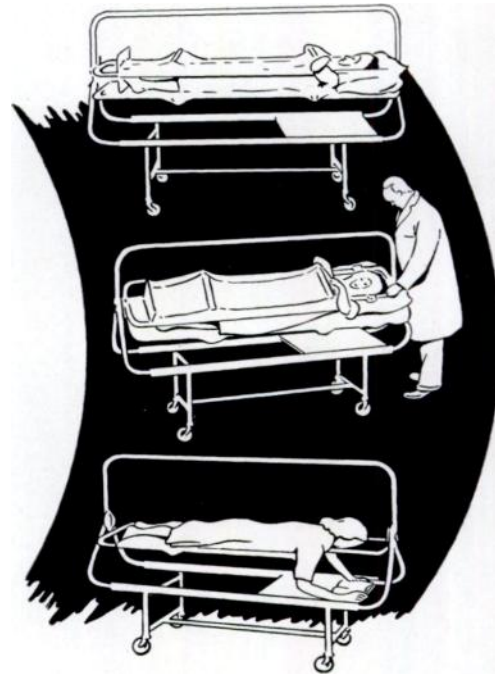


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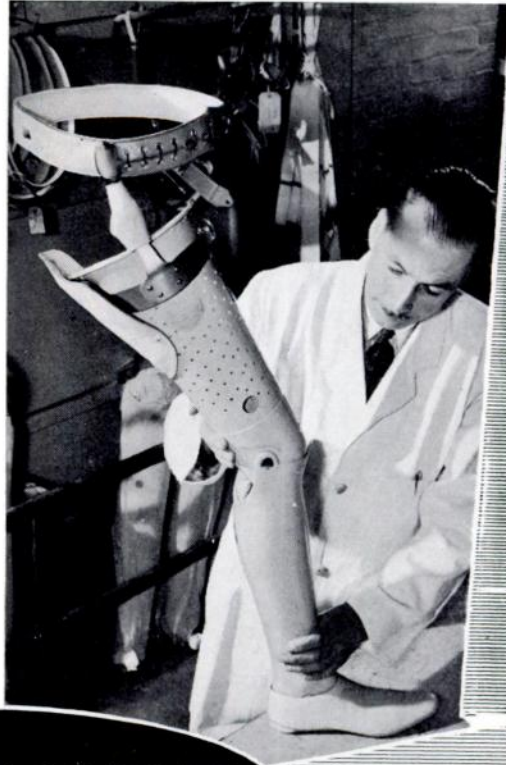
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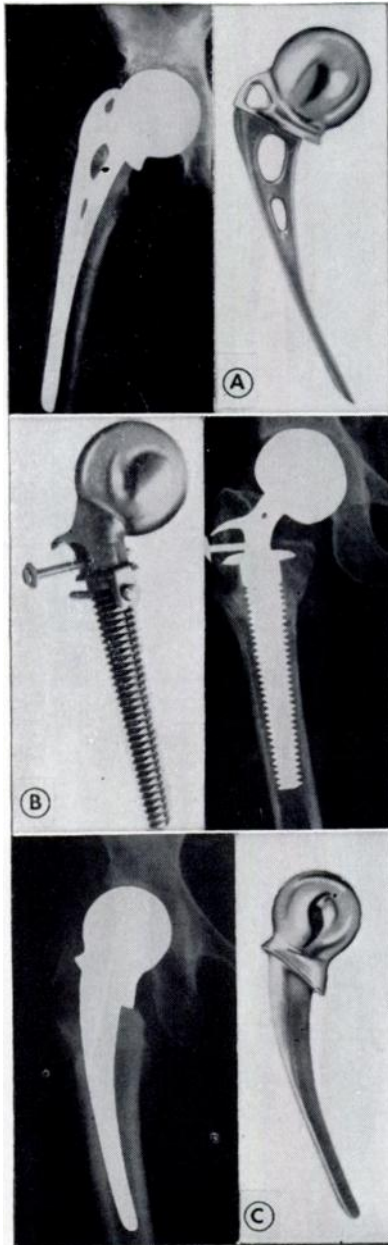


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# Vitalium

IN SIX DESIGNS . . .

STRONG . . . INERT . . .



Orthopedic Surgeons, who have for years been seeking practical, ready-made hip prostheses to replace the femoral head and neck, will find in the six Vitalium hips illustrated here clinically proven prostheses which will help to meet their urgent needs.

Aseptic necrosis, osteoarthritis, ankylosis, ununited fractures, fresh fractures in elderly patients, derangement of the hip joint, and congenital complications are some of the indications for the use of a hip prosthesis.

The Vitalium hips offer a variety in design which permits the selection of the type of appliance best suited to the patient's requirements.

## Ⓐ MOORE TYPE (Self-Locking) HIP

This prosthesis closely approximates the anatomical aspects of the upper femur. A substantial collar and intramedullary stem transmit the main stresses to the femoral neck and shaft. The trochanteric portion is made thin and wide to prevent rotation. It is available in four head diameters. A special Rasp is used to prepare the cavity.

## Ⓑ McBRIDE TYPE (Door Knob) HIP

A strong and stable appliance with a threaded intramedullary shank to provide wide distribution of weight bearing stresses. The appliance is screwed into place by rotating it back and forth so the self-tapping threads cut their way to a firm seating position. A thread-cutting tap is available to prepare the bone. The greater trochanter is re-positioned over the hook and secured with a bone screw. Two head sizes.

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The oval shoulder and stem transmit weight bearing stresses to the femoral neck and shaft. Available in a right and a left hip style to provide normal anteversion and also in a straight style. There are two head diameters in each of the head styles. A Rasp is available to facilitate preparation of the medullary cavity for close adaptation.

*Limitation of space does not permit full description of the salient features of each prosthesis. Write for more detailed information, including size data and suggested operating techniques.*

# HIP PROSTHESES

... CLINICALLY PROVEN

... AND LONG WEARING

All of these prostheses are a result of careful thought, trial and study on the part of the initiating surgeon. All have been implanted successfully in a number of patients, and their use is recommended in properly selected cases. They are strong, well-designed and will wear indefinitely. The head portions are smoothly polished and (except F) are hollow for lightness.

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## Ⓓ MODIFIED JUDET TYPE HIP

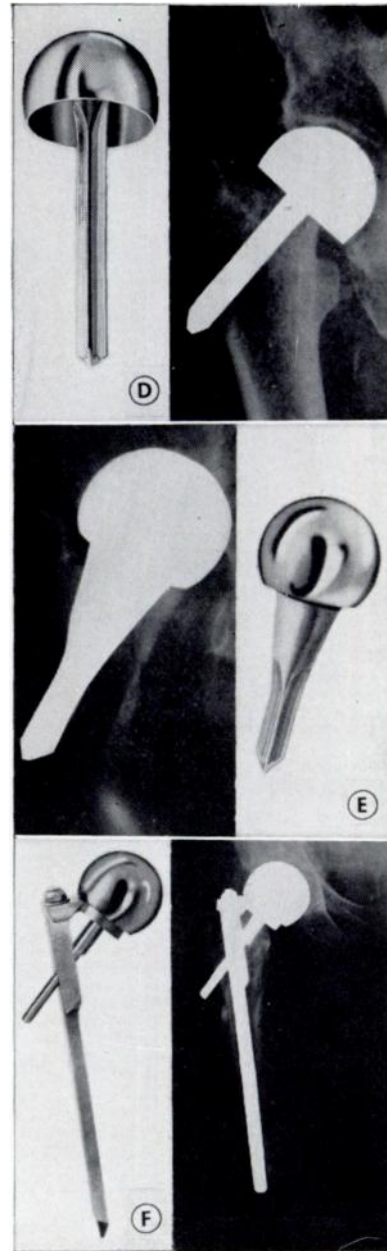
A popular strong one-piece appliance. The recessed underpart of the head seats firmly over the pre-shaped stump of the femoral neck. This takes the main weight-bearing strain. The stem penetrates the lateral cortex of the femur, provides stability and prevents rotation. Available in two head diameters and seven nail lengths in each.

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The round head tapers into an oval cone-like neck and then into a three-flanged nail stem. The neck follows the shape of the inner cortical aspect of the neck of the femur and rests on it. The oval neck and the three-flanged stem help provide stability and prevent rotation. One head diameter and stem length.

## Ⓕ LIPPMANN TYPE HIP

A rigid, well-balanced intramedullary prosthesis, with broad distribution of weight bearing stresses. It is assembled in the patient's femur during operation. The head portion is free to rotate on the pivot rod. Muscle pull and weight bearing prevent dislocation of the head. Two head styles are available in the same diameter. One provides a shorter head-neck length.



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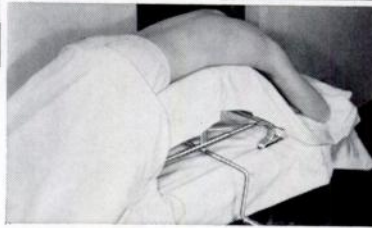
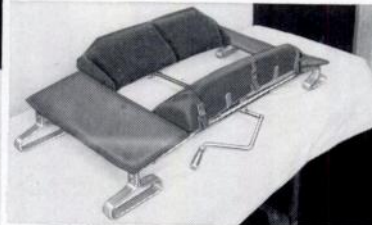
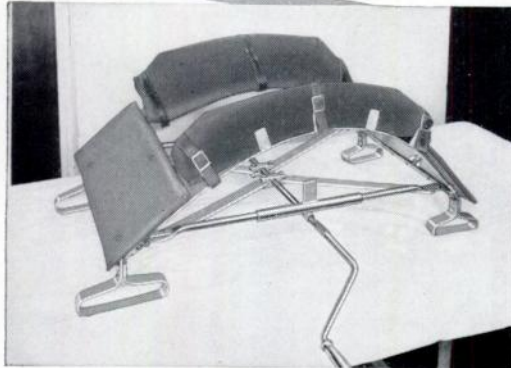
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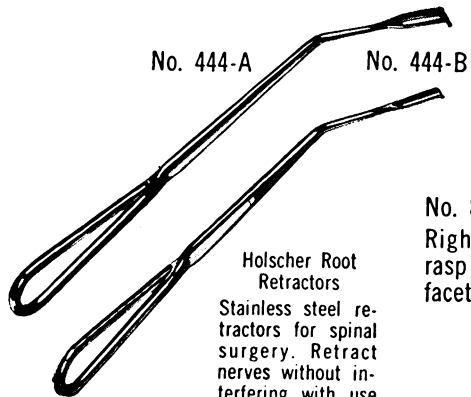
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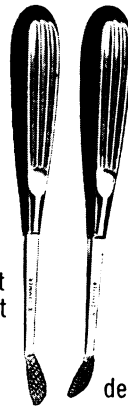


No. 444-A

No. 444-B

Holscher Root Retractors

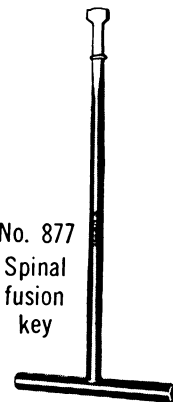
Stainless steel retractors for spinal surgery. Retract nerves without interfering with use of rongeurs and other instruments.



No. 875  
Right facet rasp and left facet rasp



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Curved osteotome with depth stop




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Spinal fusion key

These four instruments are for vertebral body and facet fusion. Write for technique of use.

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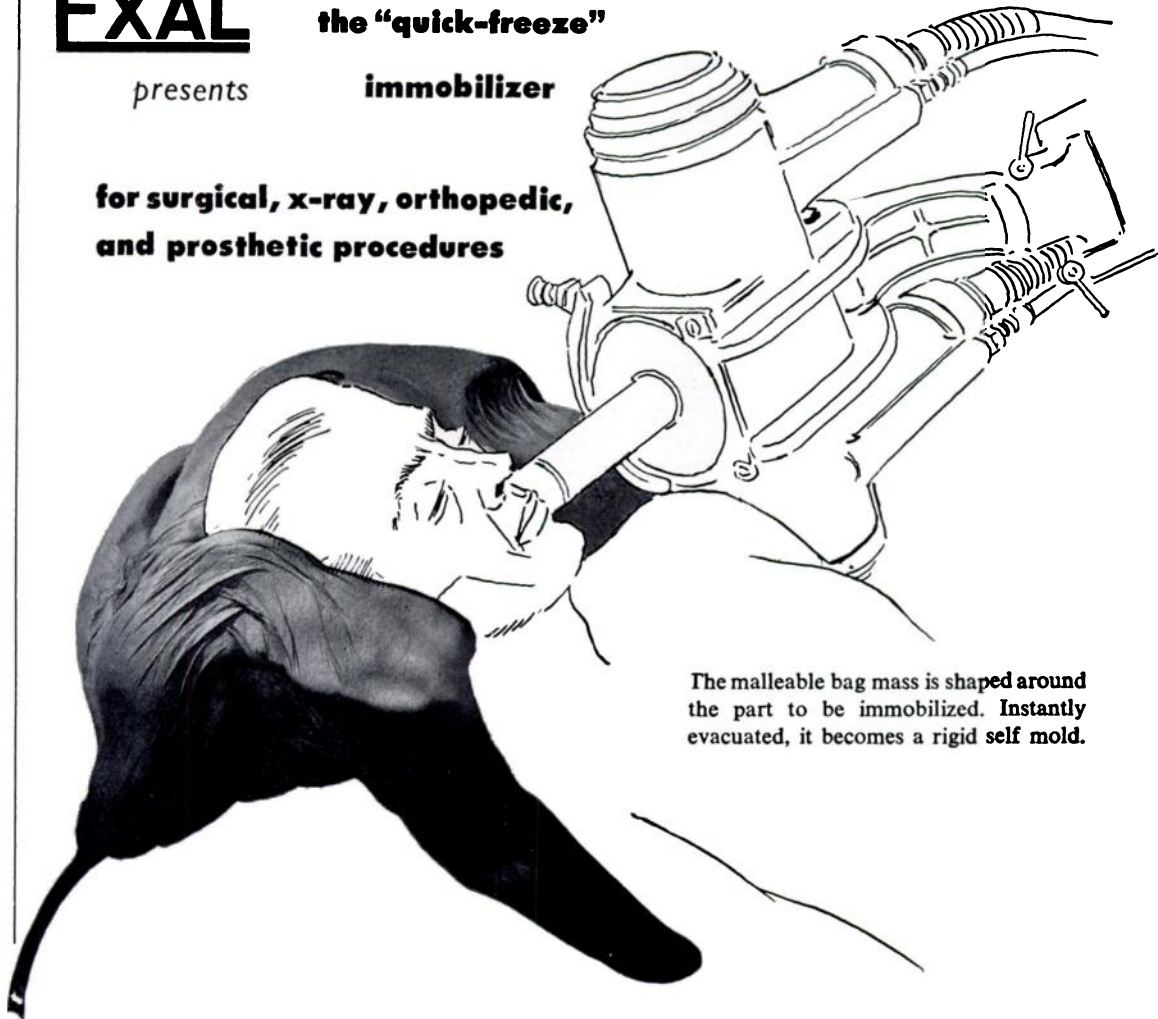
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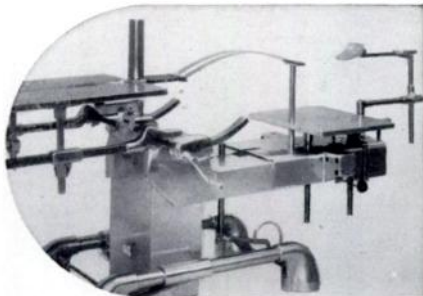
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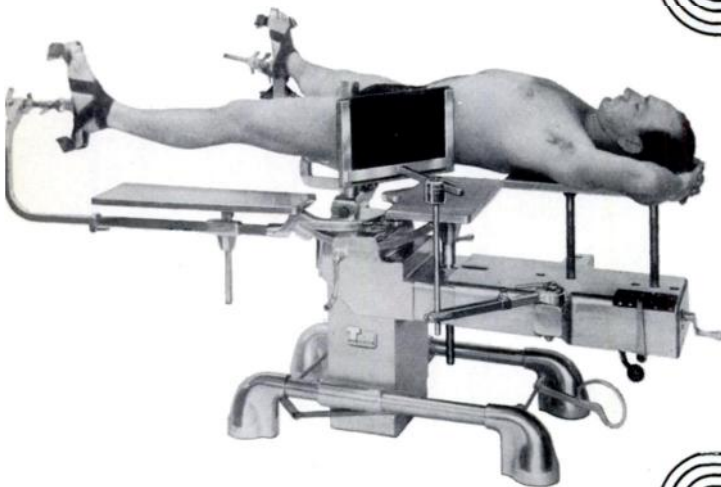


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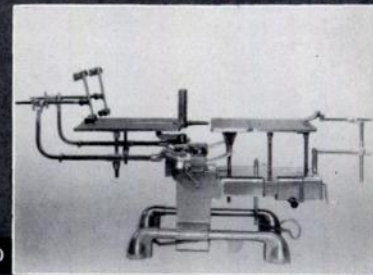
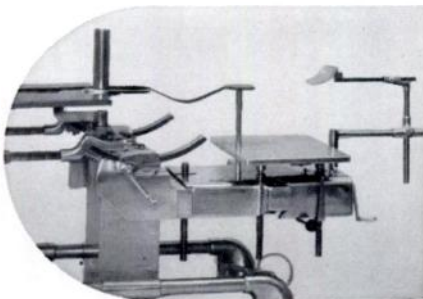
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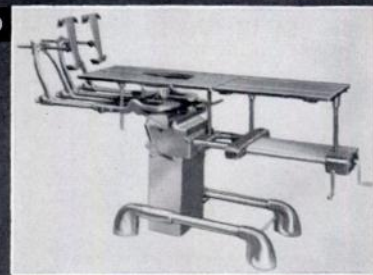
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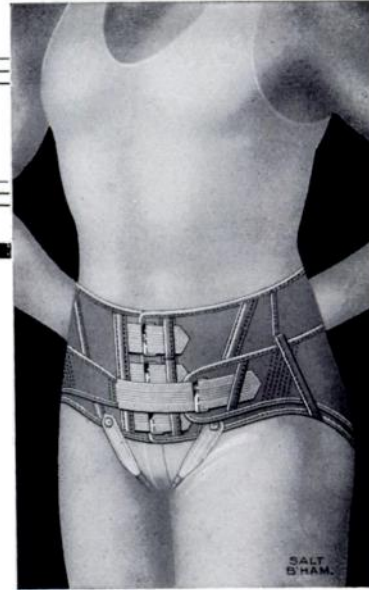


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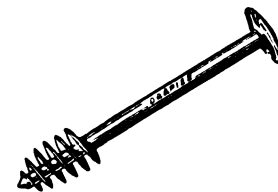
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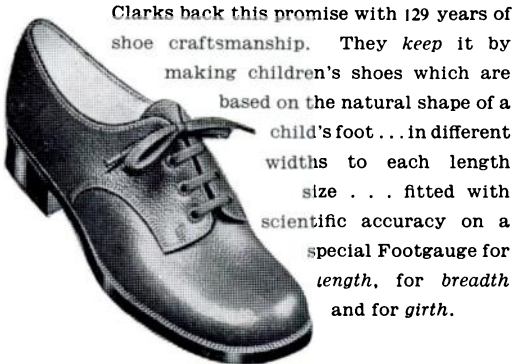
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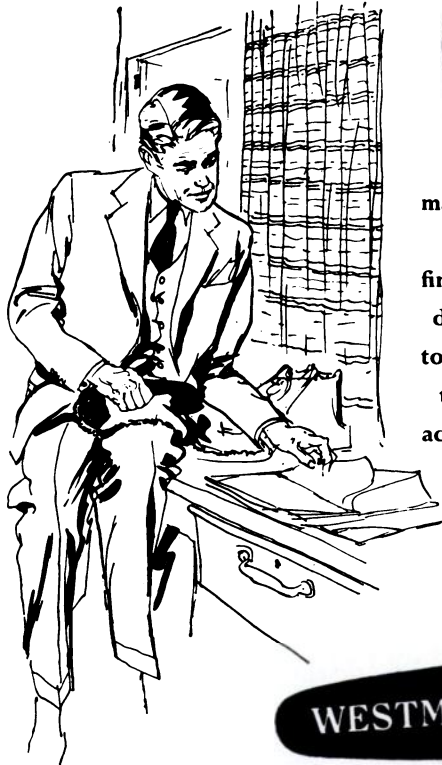
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- A. ADAM, Esq., M.B., F.R.C.S. (Ed.), Institute of Orthopaedics, Royal National Orthopaedic Hospital, 234 Great Portland Street, London, W. 1, England.
- Dr H. S. BARBER, M.D., F.R.C.P.I., Devonshire Royal Hospital, Buxton, Derbyshire, England.
- ROLAND BARNES, Esq., F.R.C.S., Accident and Orthopaedic Service, Western Infirmary, Glasgow, W. 1, Scotland.
- Dr A. C. BEGG, M.D., D.D.R., Diagnostic Radiologist, Dunedin Hospital, Dunedin, New Zealand.
- Dr D. U. BLOOR, M.B., Ch.B., D.C.H., Twin Gables, Bratch Lane, Wombourn, Staffordshire, England.
- Dr HOWARD CAMERON, M.D., Victoria Hospital, London, Ontario, Canada.
- NORMAN CAPENER, Esq., F.R.C.S., Princess Elizabeth Orthopaedic Hospital, Exeter, Devon, England.
- Dr G. N. C. CRAWFORD, M.B., B.S., M.A., Department of Human Anatomy, University Museums, Oxford, England.
- J. C. F. CREGAN, Esq., M.C., F.R.C.S., Manchester Royal Infirmary, Manchester 13, England.
- RAYMOND FARROW, Esq., F.R.C.S., Westminster Children's Hospital, Vincent Square, London S.W. 1, England.
- Miss MAUD FORRESTER-BROWN, M.D., F.R.C.S., 13 Palmerston Place, Edinburgh 12, Scotland.
- Dr H. J. GIBSON, M.D., D.P.H., Royal National Hospital for Rheumatic Diseases, Bath, Somerset, England.
- Dr CAMPBELL GOLDING, M.B., F.R.C.P., F.F.R., D.M.R.E., 64 Harley Street, London, W. 1, England.
- JOHN S. R. GOLDING, Esq., F.R.C.S., University College of the West Indies, Mona, St Andrew, Jamaica, British West Indies.
- Dr R. WHEELER HAINES, M.B., D.Sc., Department of Anatomy, University of Sheffield, Sheffield, England.
- Dr KARL VICTOR HALL, M.D., Fylkessykehuset, Molde, Norway.
- Dr R. I. HARRIS, M.D., F.R.C.S. (C.), F.R.C.S., 170 St George Street, Toronto, Ontario, Canada.
- F. W. HOLDSWORTH, Esq., F.R.C.S., 430 Glossop Road, Sheffield 10, England.
- J. S. HORN, Esq., F.R.C.S., Birmingham Accident Hospital, Birmingham 15, England.
- Dr JOHN C. KENNEDY, M.D., F.R.C.S. (C.), The University of Western Ontario, 375 South Street, London, Ontario, Canada.
- Dr G. D. KERSLEY, T.D., M.D., F.R.C.P., Royal National Hospital for Rheumatic Diseases, Bath, Somerset, England.
- A. McDOUGALL, Esq., M.B., F.R.C.S.E., Orthopaedic Department, Glasgow Royal Infirmary, Glasgow, Scotland.
- Professor BRYAN McFARLAND, M.D., M.Ch.Orth., F.R.C.S., 41 Rodney Street, Liverpool 1, England.
- IAN MACNAB, Esq., M.B., F.R.C.S. (C.), F.R.C.S., 280 Bloor Street West, Toronto, Ontario, Canada.
- E. A. NICOLL, Esq., C.B.E., M.D., F.R.C.S. (Ed.), 21 Woodhouse Road, Mansfield, Nottinghamshire, England.
- Professor N. W. NISBET, F.R.C.S.E., Orthopaedic Department, Dunedin Hospital, Dunedin, New Zealand.
- Sir HARRY PLATT, M.S., F.R.C.S., F.A.C.S., 11 Lorne Street, Manchester 13, England.
- L. W. PLEWES, Esq., M.D., F.R.C.S.E., Luton and Dunstable Hospital, Luton, Bedfordshire, England.
- C. M. C. POTTER, Esq., F.R.C.S. (Ed.), Royal Hospital, Wolverhampton, Staffordshire, England.
- DEREK W. PURSER, Esq., M.B., F.R.C.S., Manchester Royal Infirmary, Manchester 13, England.
- Dr D. A. R. RITCHIE, M.B., Ch.B., D.M.R. (D.), Western Infirmary, Glasgow, W. 1, Scotland.
- Dr M. SHUN-SHIN, M.B., M.R.C.S., Moka Hospital, Mauritius.
- Professor F. A. R. STAMMERS, C.B.E., Ch.M., F.R.C.S., Queen Elizabeth Hospital, Birmingham 15, England.
- W. E. THOMPSON, Esq., Royal College of Surgeons of England, Lincoln's Inn Fields, London, W.C. 2, England.
- Professor J. TRUETA, M.D., D.Sc., F.R.C.S. (Can.), Nuffield Orthopaedic Centre, Oxford, England.
- Dr H. VERBIEST, M.D., Neurochirurgische Kliniek, Stads-en Academisch Ziekenhuis, Utrecht, Holland.
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