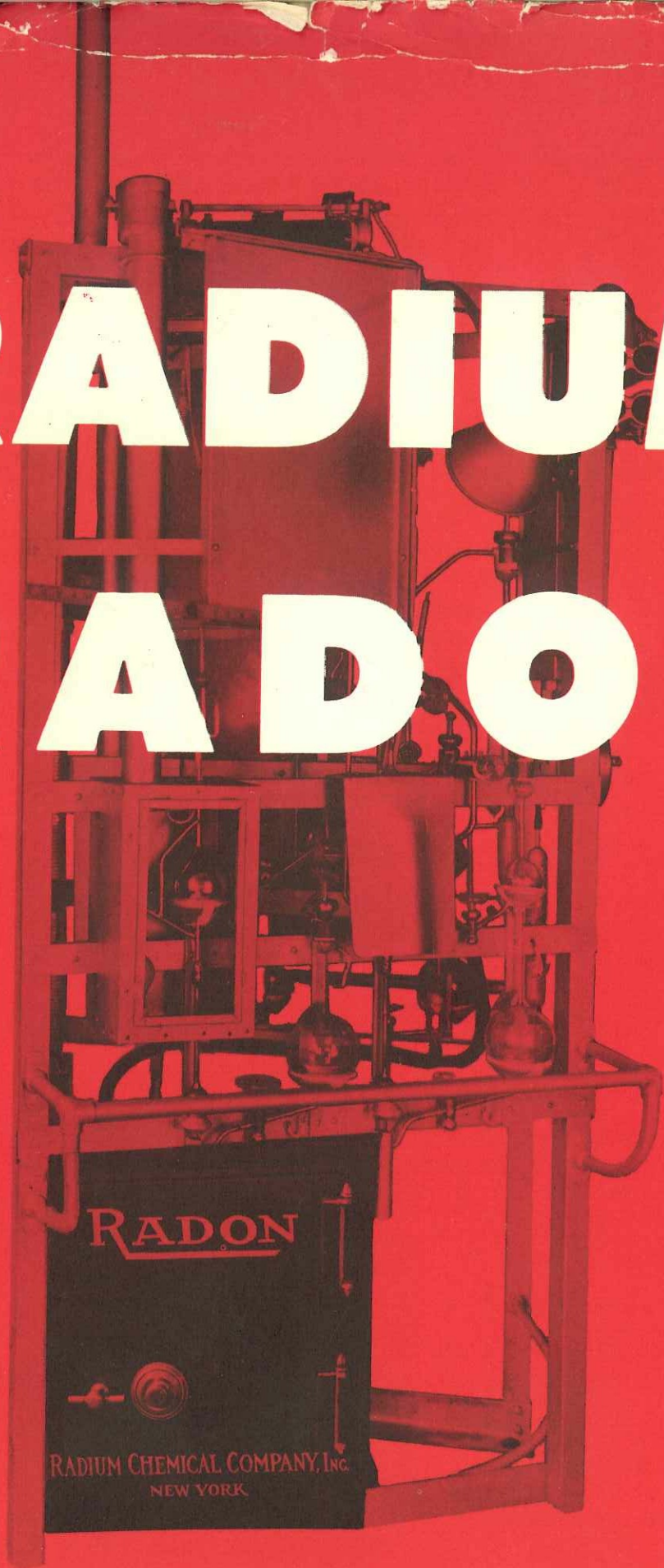


RADIUM

RADON



RADIUM CHEMICAL COMPANY, INC.

161 EAST 42nd STREET • NEW YORK 17, N.Y.

RADIUM

The latest types of preparations available for radium therapy. We stock the largest supply of standard containers, and manufacture all special loadings. Careful attention is given to the construction of each preparation.

Picturing the largest selection of intracavity and interstitial standard and special applicators, to meet your every requirement.

APPLICATORS

Displaying forceps designed for the specific purpose of inserting and handling radium and applicators. Stainless steel construction.

FORCEPS

Presenting a complete line of protective safes, angle blocks and work tables, all designed to give the greatest possible protection to personnel.

PROTECTION

Showing new rolling equipment designed to meet your exacting requirements of protection, distance and ease of handling.

TRANSPORTATION

Offering a complete radium leasing program for the Medical Profession. Radium sources for all modern application available.

RADIUM LEASING

RADON

Gold radon implants accurately calibrated for time of use. All necessary instruments furnished free of charge. Complete range of strengths available at all times.

RADIUM CONTAINERS

(ACTUAL SIZE)

REMOVABLE CELLS



Removable platinum-iridium cell to hold any quantity of radium up to 5 milligrams. 11.5 mm. x 1.0 mm. x 0.2 mm. wall. Active length 10.0 mm.



Platinum-iridium capsule to hold 5 cells in a group. 16.8 mm. x 4.55 mm. x 0.8 mm. wall.

GOLD SHEATH NEEDLES



Gold-alloy sheath needles for 1, 2, 3 and 4 cells. Total filtration (needle and cell) equals 0.5 mm. platinum.

OTHER RADIUM PREPARATIONS

Needles, tubes and cells of special loadings, wall thickness, and radium content are regularly prepared.

ADDITIONAL TYPES

Other loadings such as half-strength, 0.33 per cm., double strength, Indian club, and dumbbell needles are available.

RADIUM STANDARDS AVAILABLE

In addition to pictured sources, we manufacture all types and strengths of standards for instrumentation. Also RADIUM-BERYLLIUM NEUTRON SOURCES.

TUBES—PLATINUM-IRIDIUM CELL FILLED



5-Milligram

21.7 mm. x 2.65 mm. x 1.0 mm. wall. Active length 15 mm.



10-Milligram

21.7 mm. x 2.8 mm. x 1.0 mm. wall. Active length 15 mm.



15-Milligram

22.5 mm. x 2.9 mm. x 1.0 mm. wall. Active length 15 mm.



20-Milligram

22.5 mm. x 3.05 mm. x 1.0 mm. wall. Active length 15 mm.



25-Milligram

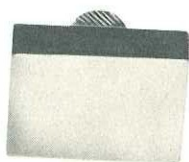
15.5 mm. x 3.55 mm. x 1.0 mm. wall. Active length 9 mm.



50-Milligram

19 mm. x 4.05 mm. x 1.0 mm. wall. Active length 12 mm.

PLAQUES FACED WITH 0.1 MM. MONEL



Plaques supplied in any desired size and strength.

RADIUM

NEEDLES—PLATINUM-IRIDIUM CELL FILLED



1.0-Milligram

11 mm. x 1.65 mm. x 0.5 mm. wall. Active length 3 mm.



5-Milligram

15 mm. x 1.75 mm. x 0.5 mm. wall. Active length 7 mm.



10-Milligram

20 mm. x 1.75 mm. x 0.5 mm. wall. Active length 12 mm.

LOW CONTENT NEEDLES CELL FILLED TROCAR POINTS



1.0-Milligram

27.7 mm. x 1.65 mm. x 0.5 mm. wall. Active length 15 mm., 0.66 per cm.



2.0-Milligram

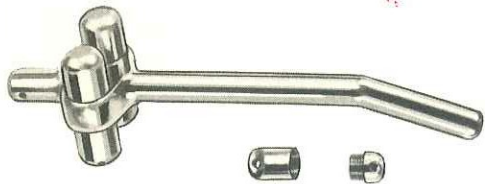
44 mm. x 1.65 mm. x 0.5 mm. wall. Active length 30 mm., 0.66 per cm.



3.0-Milligram

60 mm. x 1.65 mm. x 0.5 mm. wall. Active length 45 mm., 0.66 per cm.

APPLICATORS



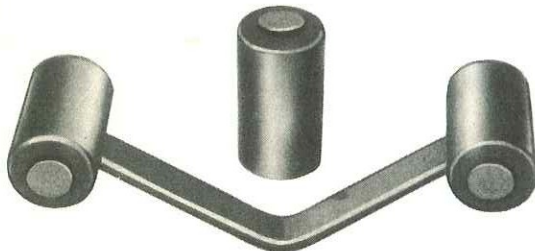
No. 445

Double crossarm applicator three-section tandem. Specify for needles, tubes or cells.



No. 446

Disk-type applicator. Specify for needles, tubes or cells.



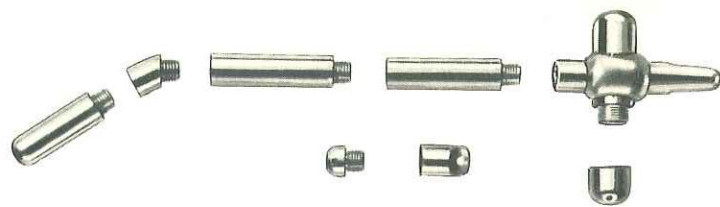
No. 434

Kaplan rubber colpostat. Internal 22 mm. x 8 mm.



No. 434M

Kaplan rubber colpostat with thin wall reusable brass screens. Internal 26.5 mm. x 6 mm.



No. 444

Clark-type applicator. Specify for needles, tubes or cells.

TANDEMS



Rubber—150 mm. length, 7 mm. bore



Rubber—150 mm. length, 5 mm. bore



Thin rubber—158 mm. length, 5 mm. bore



Thin rubber—80 mm. length, 6 mm. bore



Thin rubber—55 mm. length, 5 mm. bore



Thin rubber—55 mm. length, 4 mm. bore



Raflex (flexible plastic) 120 mm. length, 4 mm. bore



Raflex (flexible plastic) 95 mm. length, 5 mm. bore



Raflex (flexible plastic) 95 mm. length, 7mm. bore



Raflex with disk—gauss end. Specify bore of 4, 5 or 7 mm. and desired length



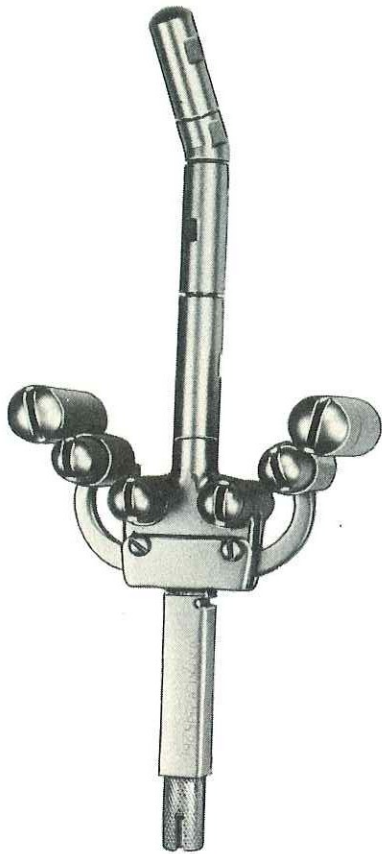
Raflex—gauss end. Specify bore of 4, 5 or 7 mm. and desired length



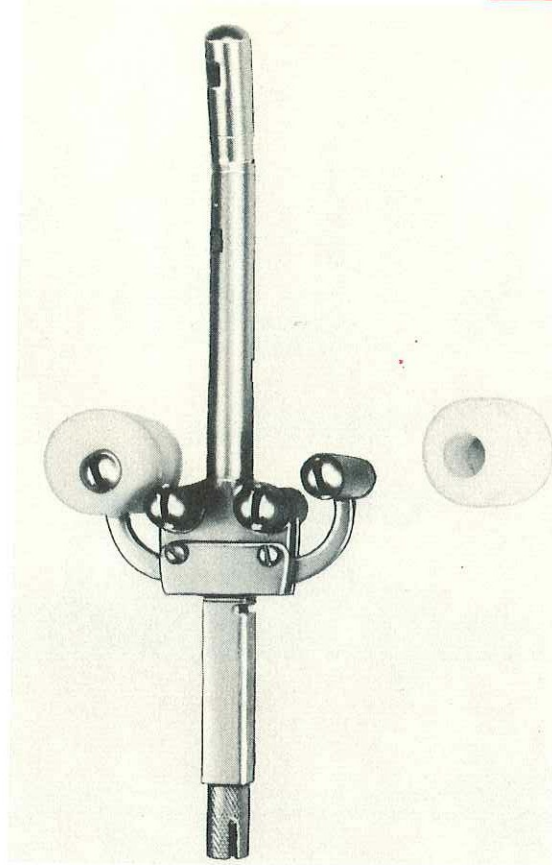
Stainless steel tandem. One or more sections. Specify desired bore and length

ERNST APPLICATOR
No. 441

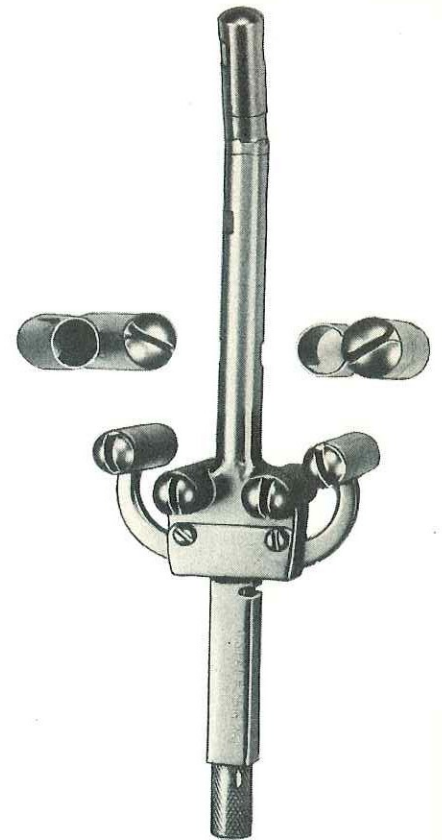
APPLICATORS



Expanded for treatment



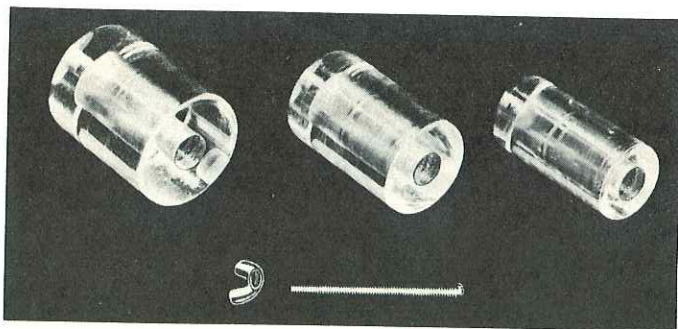
Nylon sleeves (No. 441S) in position



Outer ovoids removed

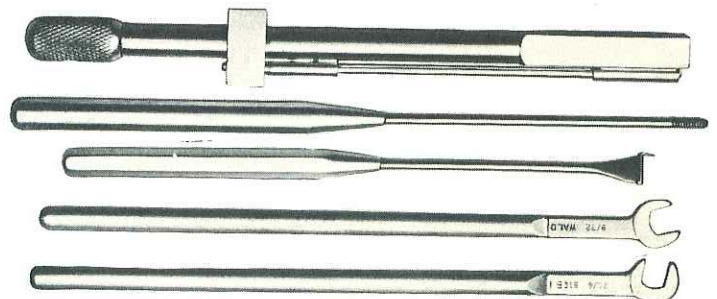
The Ernst cervical uterine radium applicator is available for use with needles, tubes or removable cells. This applicator is constructed of stainless steel for durability and ease of maintenance. The standard applicator holds three 10-milligram needles in each section. The applicator for tubes holds one tube per section, and the applicator for cells holds up to five cells per section.

Nylon sleeves (#441S) are 20 mm. in diameter, 29.5 in length. Removable metal ovoids have additional 1 mm. metal.



No. 441V

Set of three vaginal packing cylinders
Small 50 x 25 mm.
Medium 51 x 30 mm.
Large 51 x 38 mm.



No. 441A Inserting handle

No. 441B London-type handle for removing Ernst applicator

No. 441C Screw driver for caps

No. 441D Wrenches for closing tandem

These four items furnished with each applicator

APPLICATORS

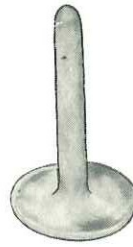
432 Manchester rubber tandems and ovoids



25 mm.



35 mm.



48 mm.



60 mm.



Large



Medium



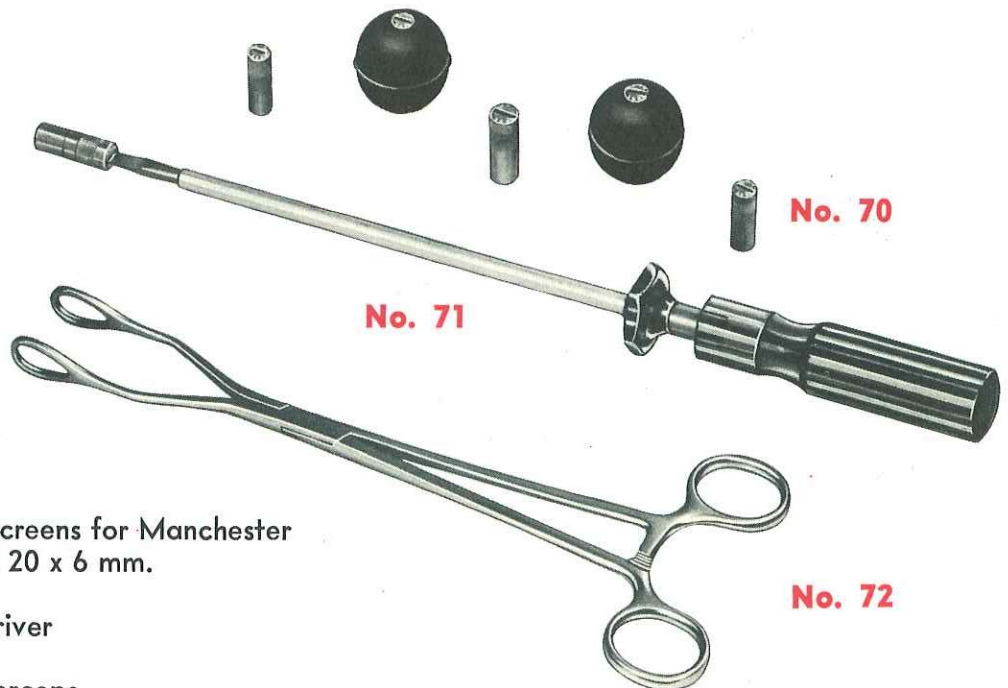
Small



Washers



Spacers

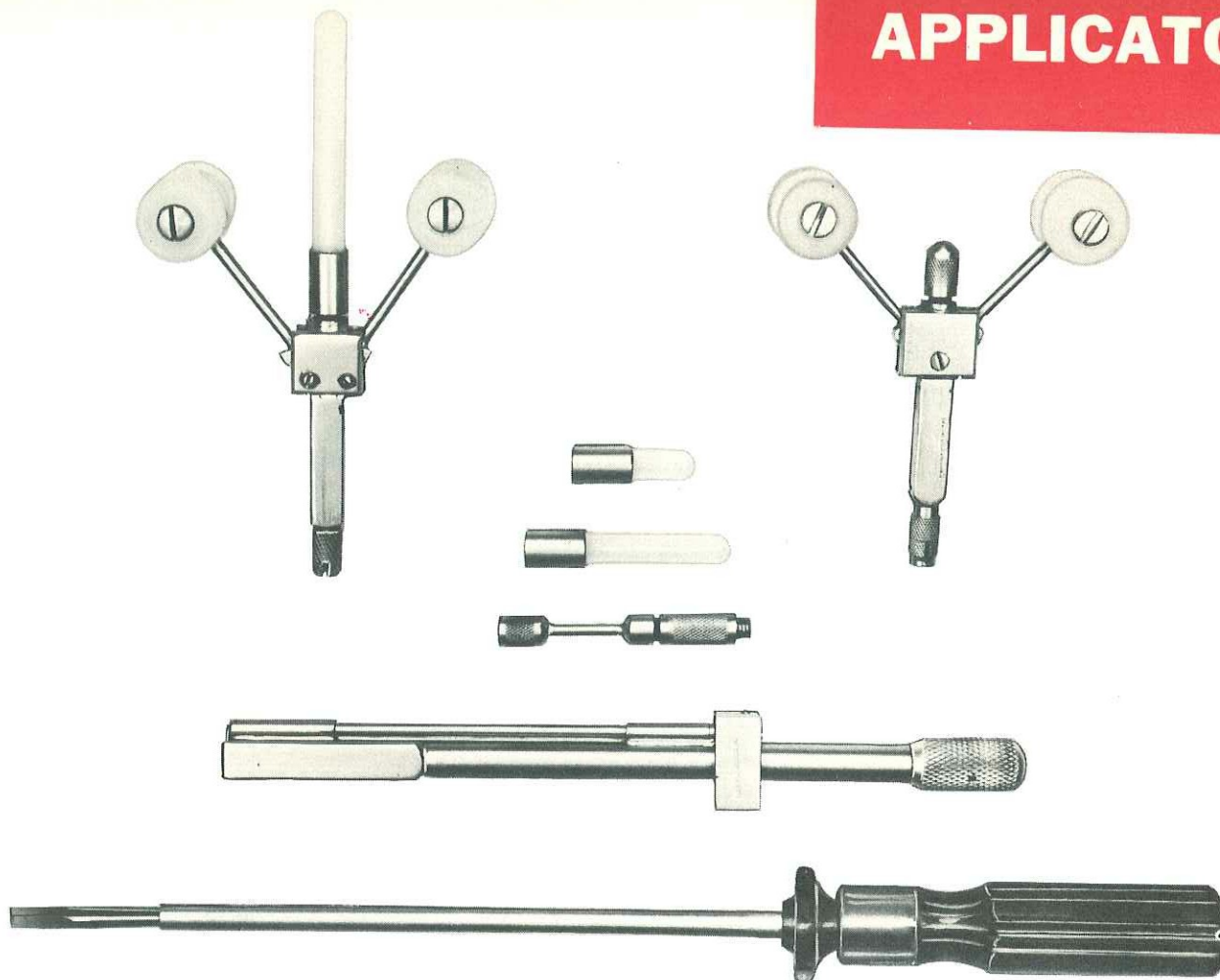


No. 70 Set of six brass screens for Manchester rubber—Internal 20 x 6 mm.

No. 71 Split tip screw driver

No. 72 Ovoid holding forceps

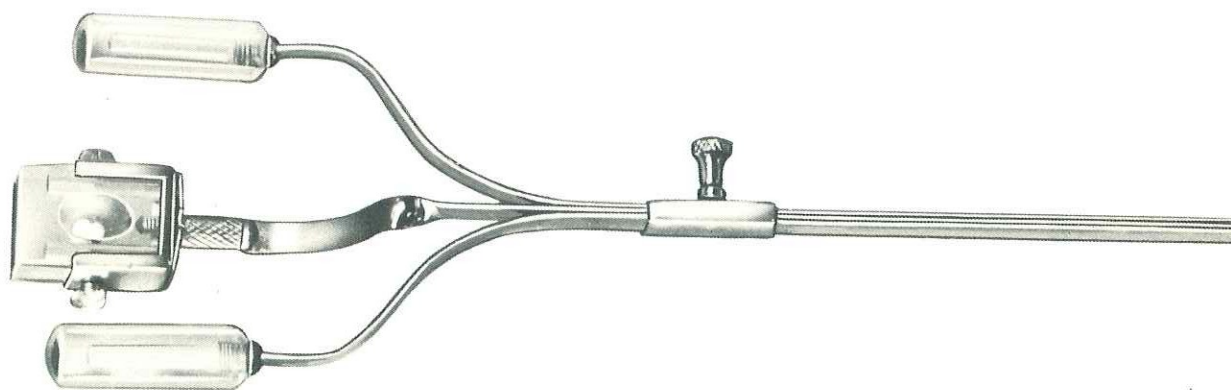
APPLICATORS



TER-POGOSSIAN APPLICATOR

No. 448

Standard for tubes—if needles are used thin brass screens for tandems are provided. Advise size and types of radium to be used. The head section may be used with or without tandems as shown. Set provided with #71 screw driver.



CORSCADEN APPLICATOR

No. 449

May be used with tubes or needles. A #504 Raflex tandem is used to irradiate the uterus.

APPLICATORS



HANKINS AND HOCKIN LUCITE OVOIDS

No. 433

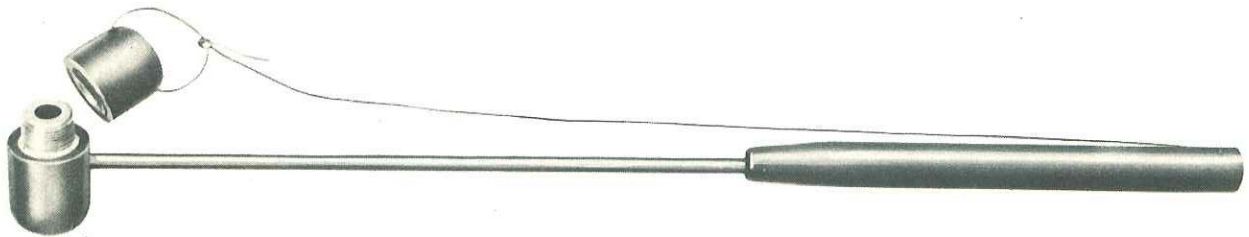
Applicator set has three pairs of ovoids, one washer, one spacer, three nylon tandems (not shown), and three metal inserting handles.



FORDYCE APPLICATOR

No. 440

Ovoids are made to hold tubes. If needles are to be used, specify size. Supplied with a three-section stainless steel tandem with angle block and screw driver.

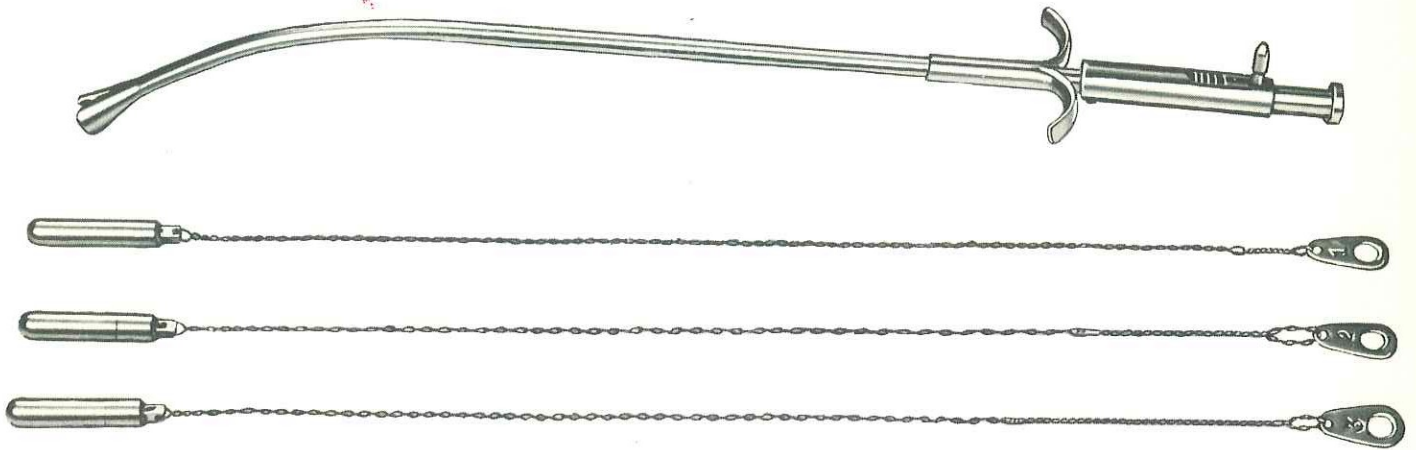


LONDON COLPOSTAT

No. 438

Brass covered with hard rubber. Detachable handle. Advise desired filtration, size and number of preparations to be used.

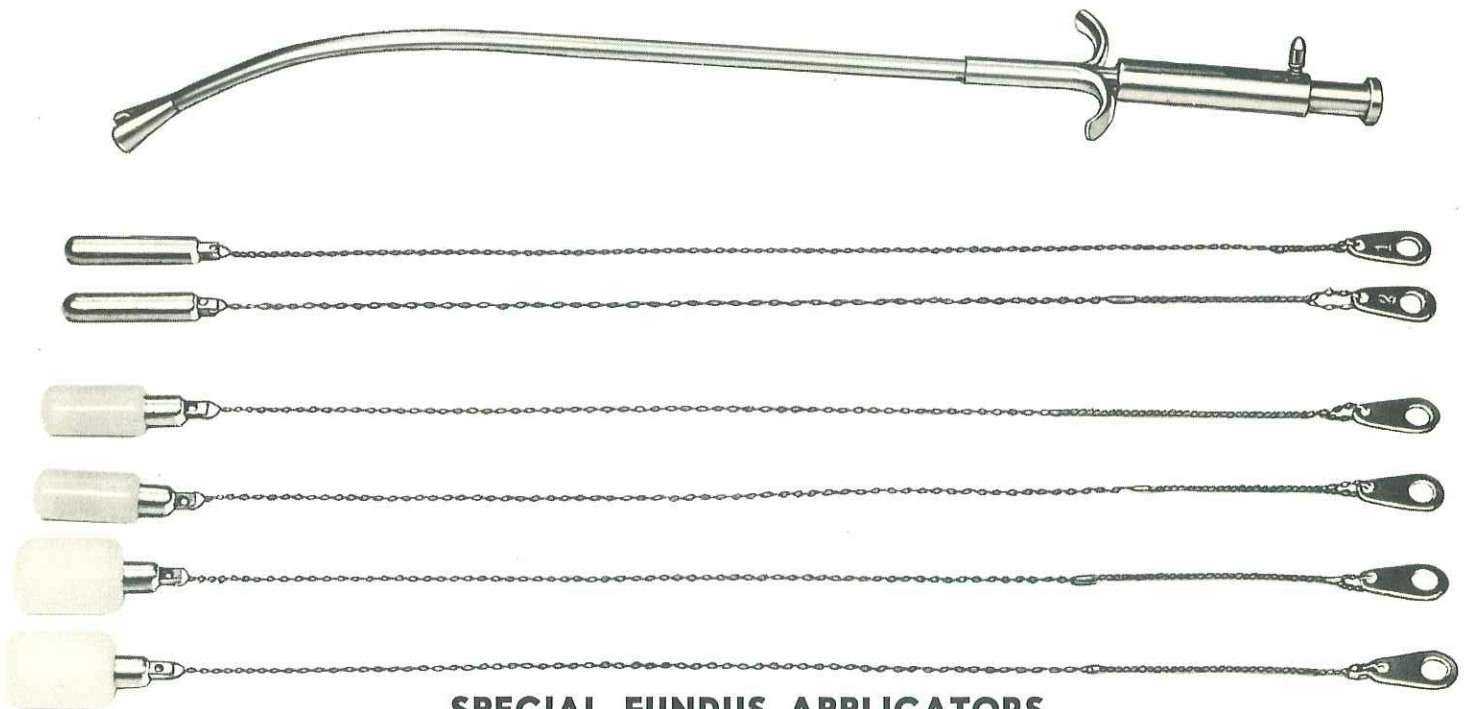
APPLICATORS



CAMPBELL-TYPE HEYMAN FUNDUS APPLICATOR

No. 442

Set of twelve numbered stainless steel capsules and inserter. Made for any preparation. Specify if tubes or needles are to be used. Special 14" cap remover available. See Page 20.

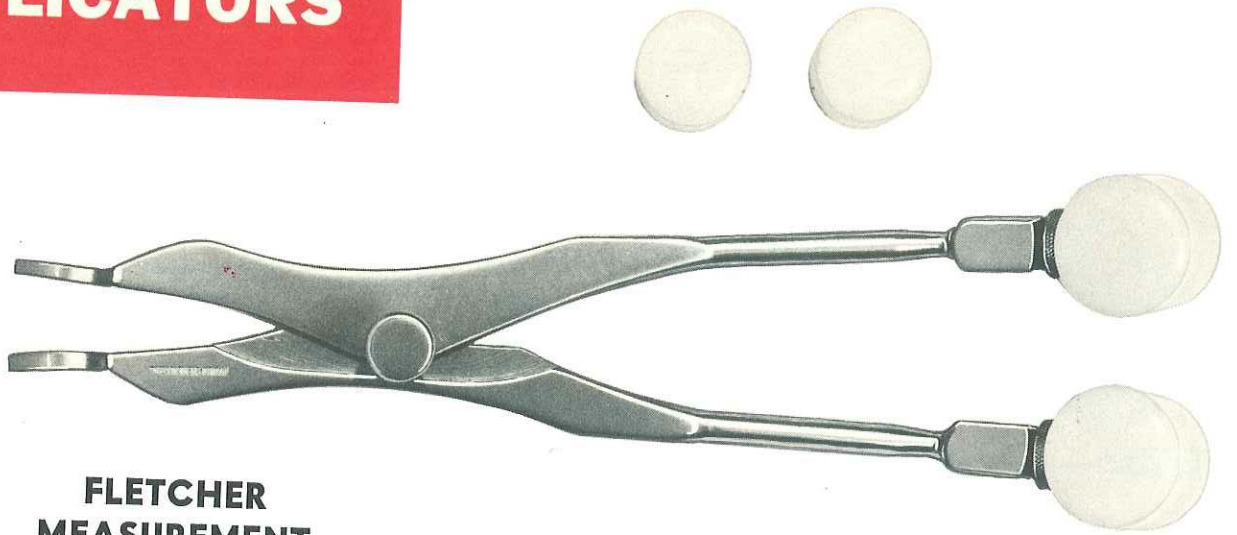


SPECIAL FUNDUS APPLICATORS

No. 703

Nylon covered stainless steel capsules in any diameter. To be used with standard inserters. Pictured (a) inserter, (b) all metal standard capsules, (c) nylon covered 1 cm. diameter capsules, (d) nylon covered 1.5 cm. diameter capsules. Order number and size required. Inserter may also be purchased separately.

APPLICATORS

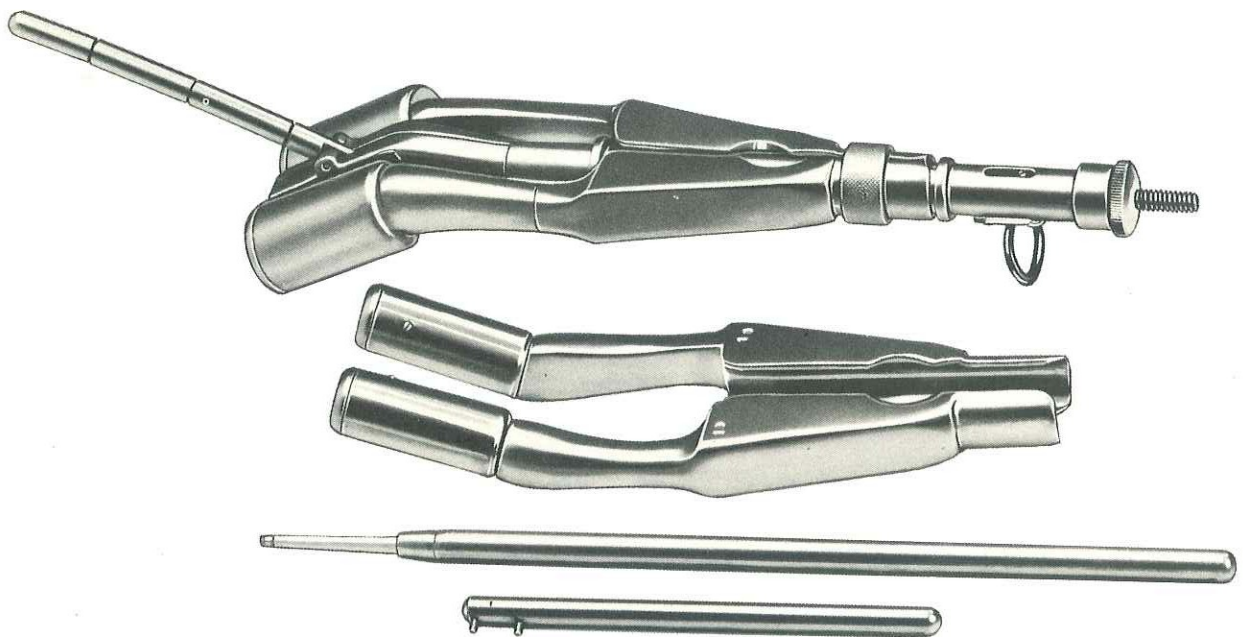


FLETCHER MEASUREMENT INSTRUMENT

No. 453

(Not for treatment)

Interchangeable dummy nylon ovoids, 2.0, 2.5 and 3.0 cm.
Interlocking handles



NOLAN CERVICAL APPLICATOR **No. 450**

Interchangeable ovoids, 1.5 and 2.0 cm. external diameter, with a hinged endocervical three-section adjustable tandem.

FLETCHER ADJUSTABLE APPLICATOR NO. 443

APPLICATORS



Metal ovoids
(2 cm. diameter)
Interlocking handles



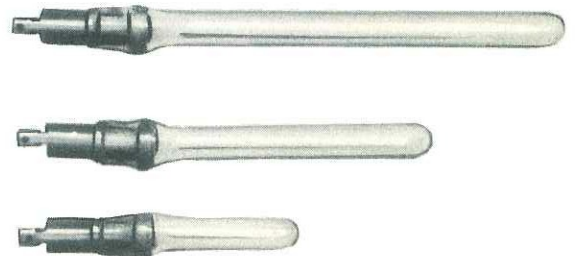
2 Pairs of plastic jackets
(2.5 and 3.0 cm. diameter)
to fit over metal ovoids



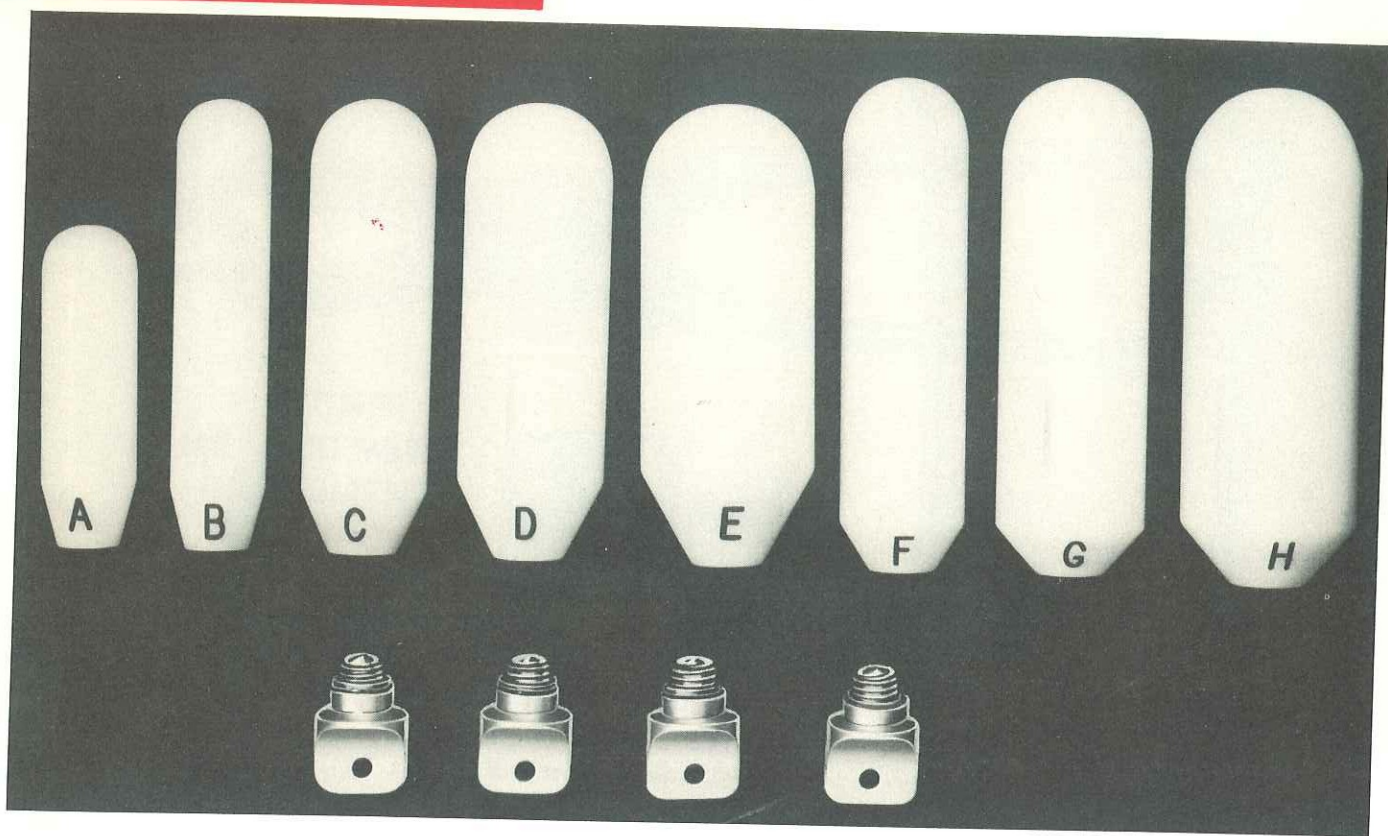
Single ovoid
on handle



Steel uterine tandems
for tubes



Plastic uterine tandems



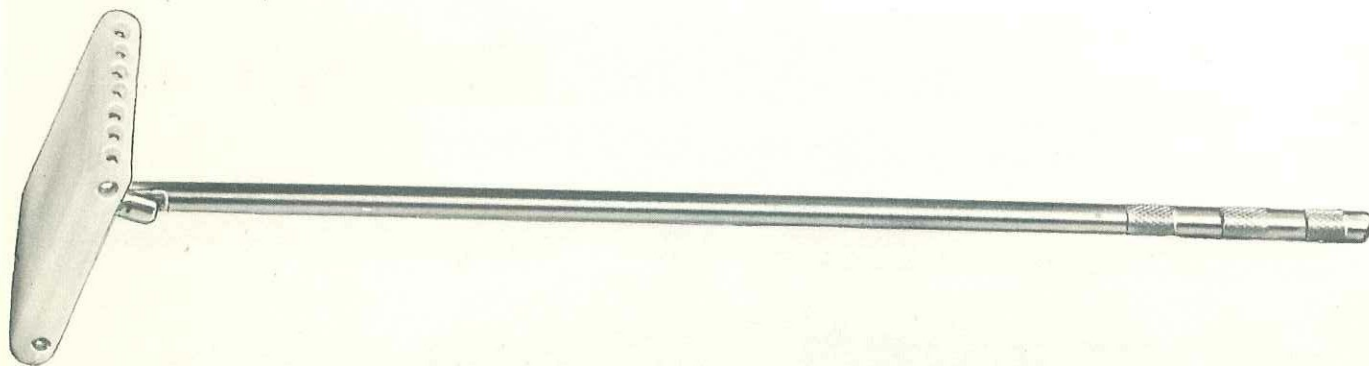
BURNETT VAGINAL APPLICATORS

NO. 700

Set of eight nylon cylinders and four screw plugs. Specify if for needles or tubes. Supplied with spacers.

**External Dimensions
(For Needles)**

| | | | | | |
|----------|-------------|----------|-------------|----------|-------------|
| A | 20 x 52 mm. | D | 30 x 76 mm. | G | 30 x 87 mm. |
| B | 20 x 75 mm. | E | 35 x 78 mm. | H | 35 x 89 mm. |
| C | 25 x 75 mm. | F | 25 x 86 mm. | | |



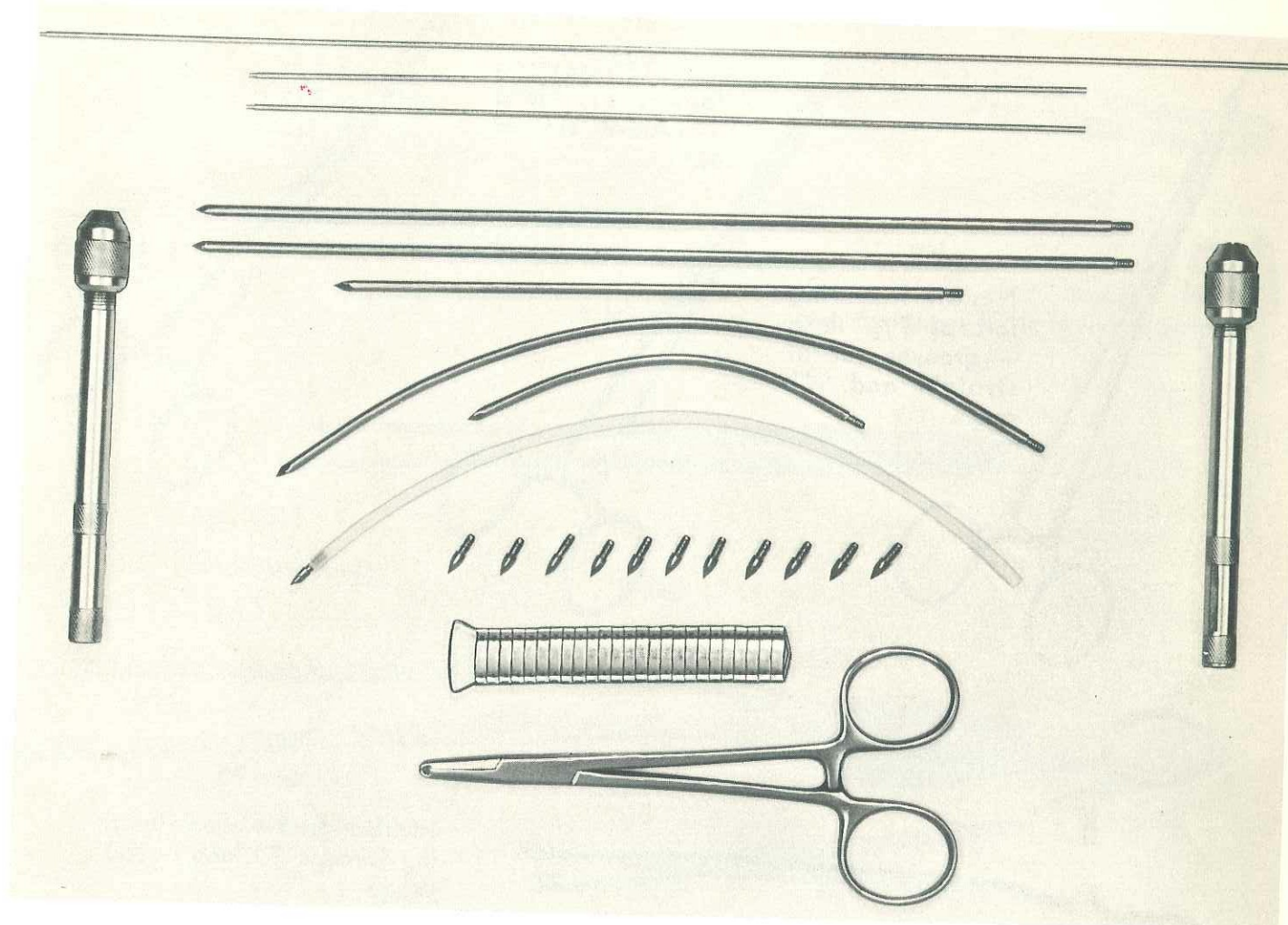
NYLON VAGINAL PLAQUE

NO. 701

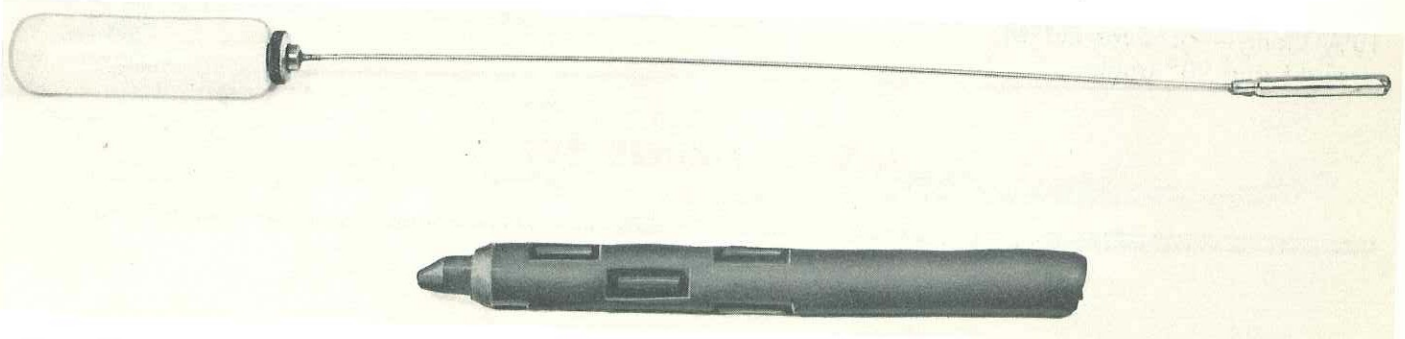
Custom made to hold any size and number of radium preparations. Hinged handle, easy loading and unloading.

**MORPHIS AFTERLOADING APPLICATOR
NO. 702**

APPLICATORS



Teflon set for implantation of radium needles. Set consists of pictured needles, points, pin vises, pushers, forceps, clips and 100 feet of teflon tubing.



No. 28

Nylon rectal applicator
External: 63 mm. x 20 mm.
Internal: 51 mm. x 5.4 mm.
10" Flexible handle

No. 426

Kaplan rubber rectal applicator
150 mm. x 15 mm.
Space for nine radium sources

FORCEPS

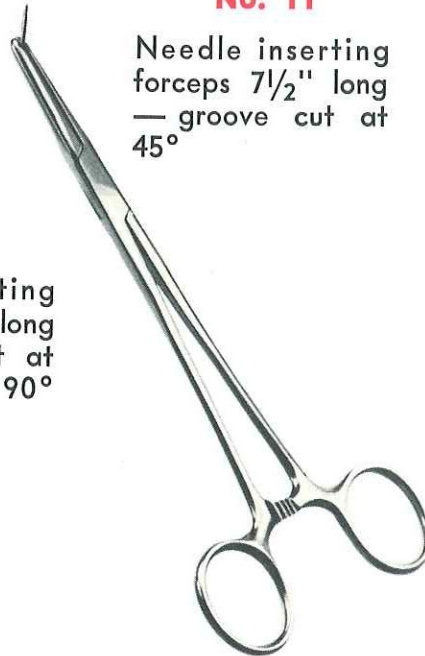
No. 13

Needle inserting
forceps 7½" long
— groove retro



No. 11

Needle inserting
forceps 7½" long
— groove cut at
45°



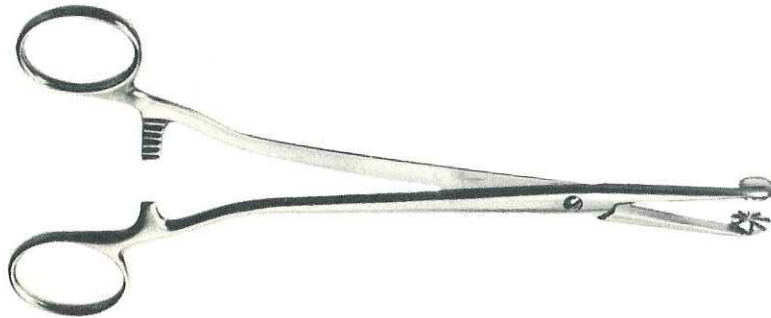
No. 14

Needle inserting
forceps 7½" long
— grooves cut at
straight and 90°
angle



No. 10

Multiple-groove needle insert-
ing forceps 9" long — 360°
usage



No. 402

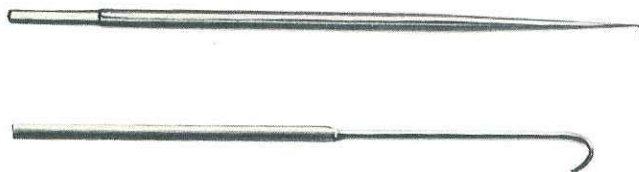
Needle inserting forceps
10½" long — grooves cut at
straight and 90° angle



NEEDLE PUSHER SET

No. 6

Needle extractor — 6½" long



No. 7

Needle pusher — 135° angle, 6½" long



No. 8

Needle pusher — retro angle, 6" long



No. 9

Needle pusher — straight, 6½" long



FORCEPS

No. 21

Cross-action forceps — grooved tip
8½" long — #21A for needles
#21B for tubes
#21C for cells



No. 20

Straight hand forceps for tubes 9" long — grooved tip



No. 4DF

12" Handling forceps



No. 18

14" Handling forceps

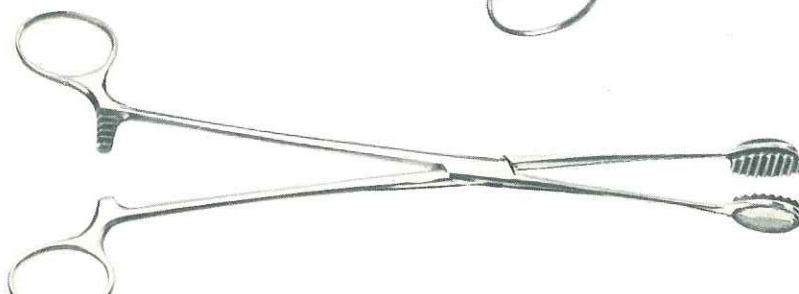
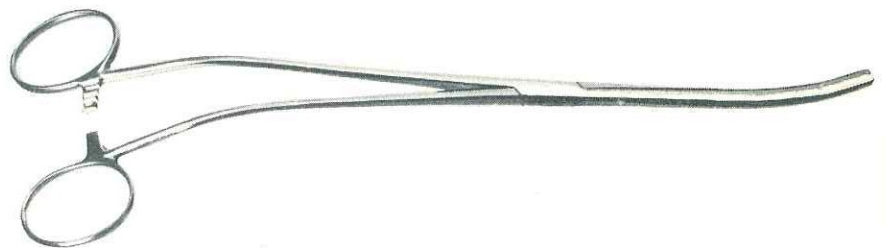


No. 407

Teperson intubating forceps for tandem applicators — length 10½"

No. 406

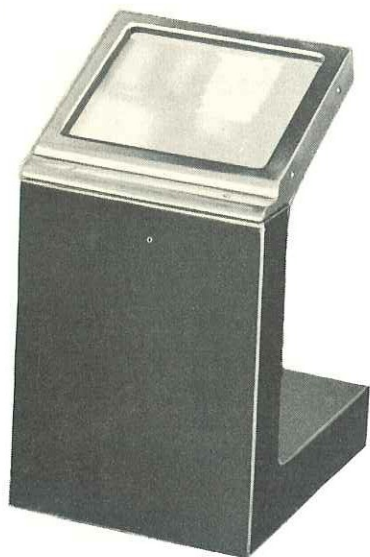
Uterine tandem holding forceps — length 10"



No. 437

Applicator holding forceps with rubber jaws — length 10"

PROTECTION



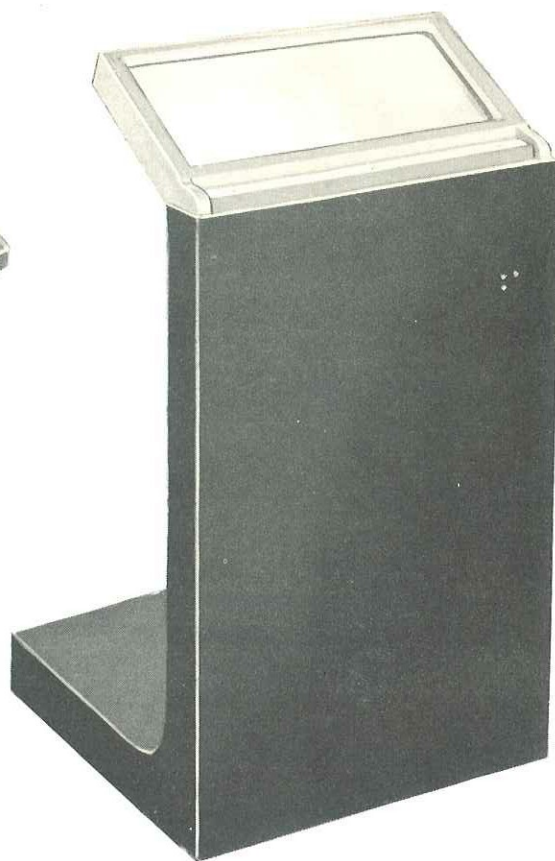
No. 471

Small protection block. Lead 2", linoleum covered. 11" height, width 8", depth at base 10 1/2", weight 140 pounds.



No. 478

Wooden assembly tray. Available for small and large protection block. Specify size.



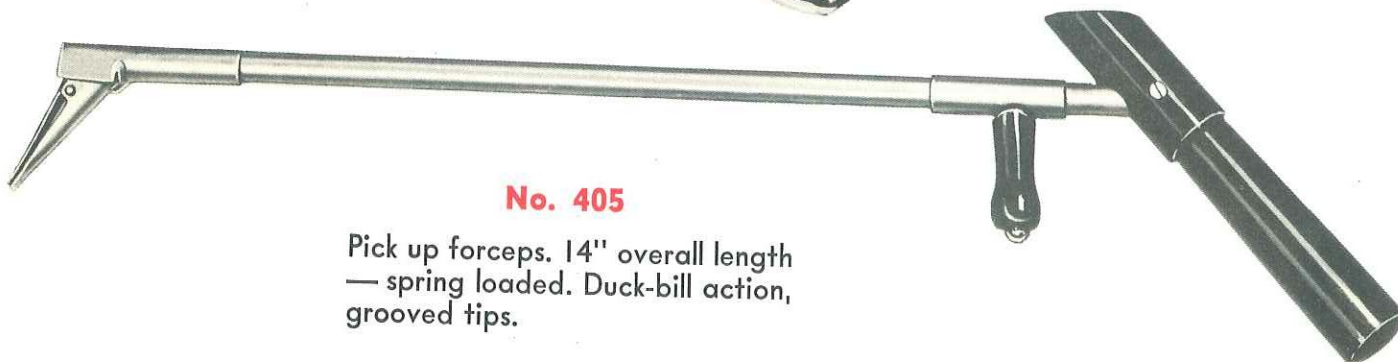
No. 472

Large protection block. Lead 2", linoleum covered. 16 1/2" height, 14" width, depth at base 14 1/2", weight 360 pounds. Designed for best body protection.



No. 473

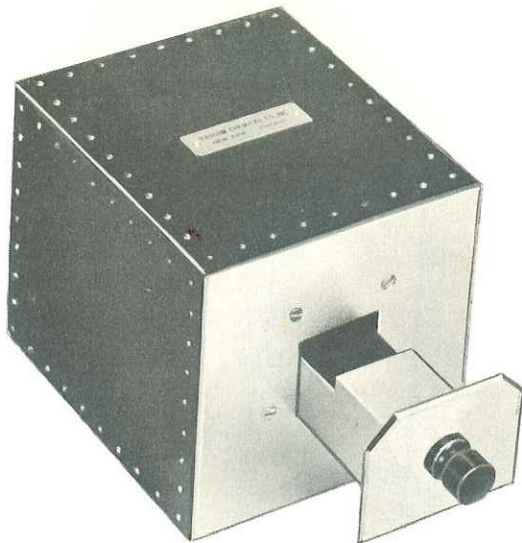
Lead hand shield with 12" forceps.



No. 405

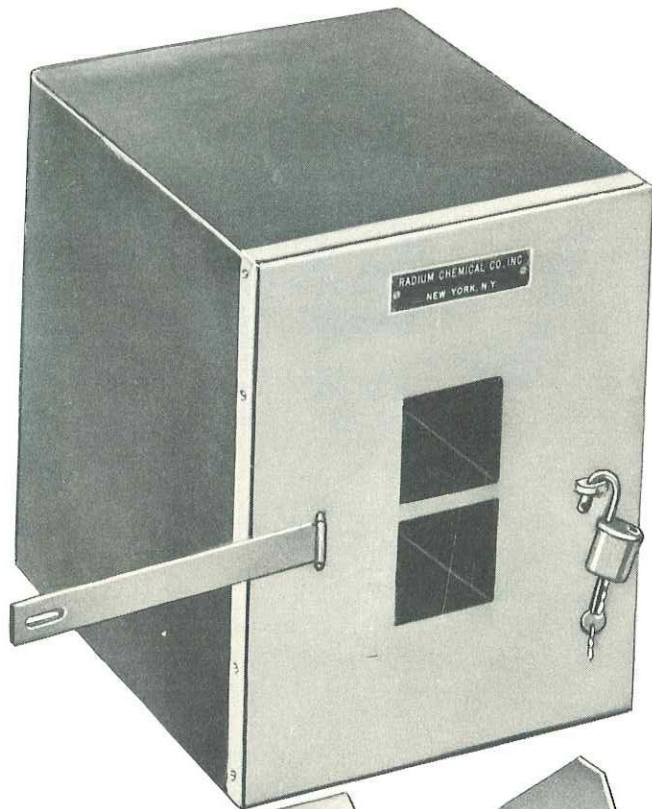
Pick up forceps. 14" overall length — spring loaded. Duck-bill action, grooved tips.

PROTECTION



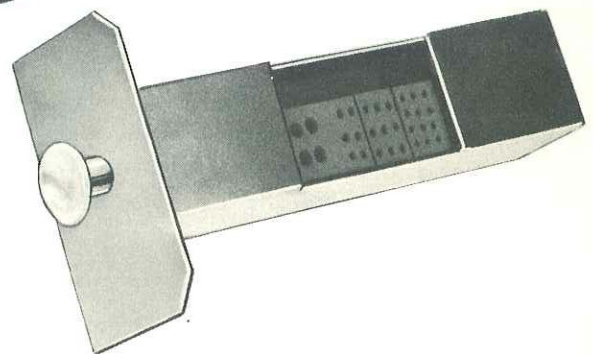
No. 470

Lead Storage Safe — Designed for small supplies of radium. One locked drawer with $2\frac{1}{2}$ " lead in all directions. 3" drawer opening drilled for radium preparations in separate holes. Weight 150 pounds—Size $7\frac{1}{2}$ " x $7\frac{1}{2}$ " x $8\frac{1}{2}$ ".



No. 47032

Lead Storage Safe — 3" lead in all directions. Designed to store individual preparations in separate holes in one drawer. Second drawer has opening 6" x 2" x 2", large enough for loaded Ernst applicator. Drawer may be lead filled to allow additional radium storage if desired. Weight: 380 Pounds — Size $8\frac{1}{2}$ " wide, $10\frac{1}{2}$ "



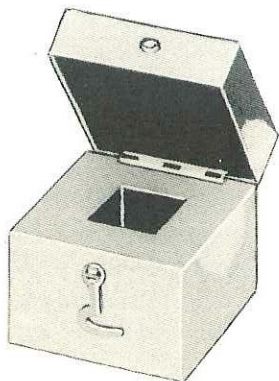
RADIUM STORAGE CABINETS

We regularly manufacture all types of storage facilities. The number of drawers and the thickness of the lead varies with each individual installation, amount of radium, location of safe, applicator storage, etc. See page 24 for other types.



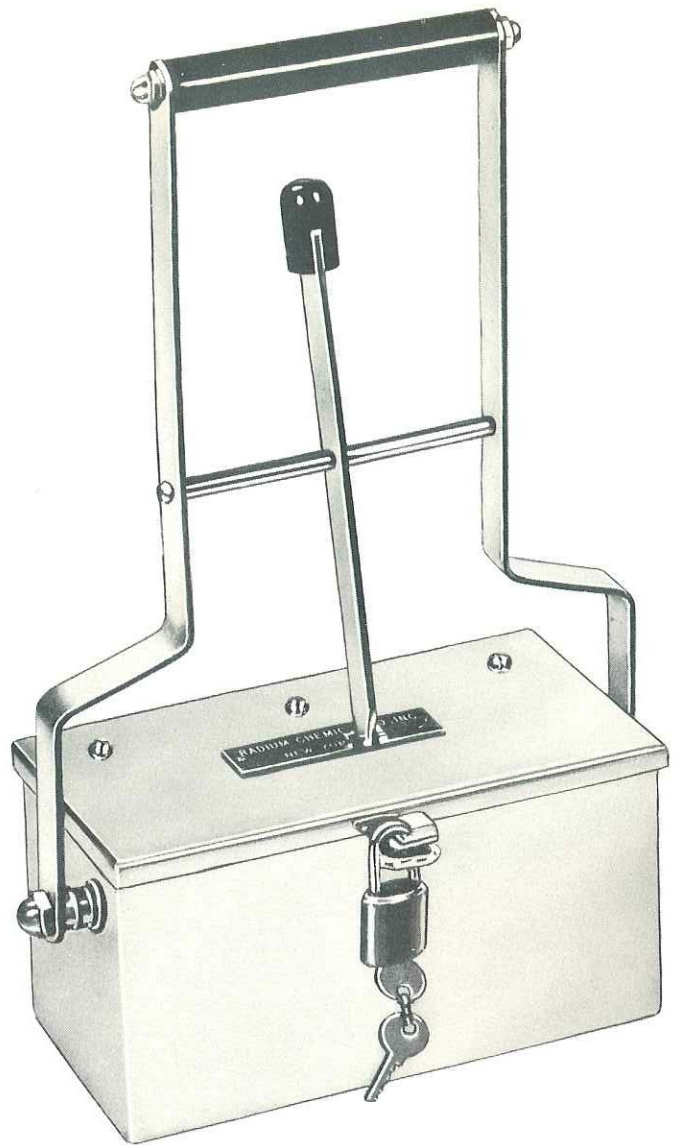
Heyman (Campbell type) Carrier
No. 442C

Solution tight 2" internal diameter, stainless steel removable core to hold twelve individual capsules. 1" Lead around sources, strap handle. Weight 30 pounds, height 21". Excellent for threaded needles.



Plaque Storage Box
No. 476

1" Lead, chrome-plated.



Ernst Carrier
No. 479

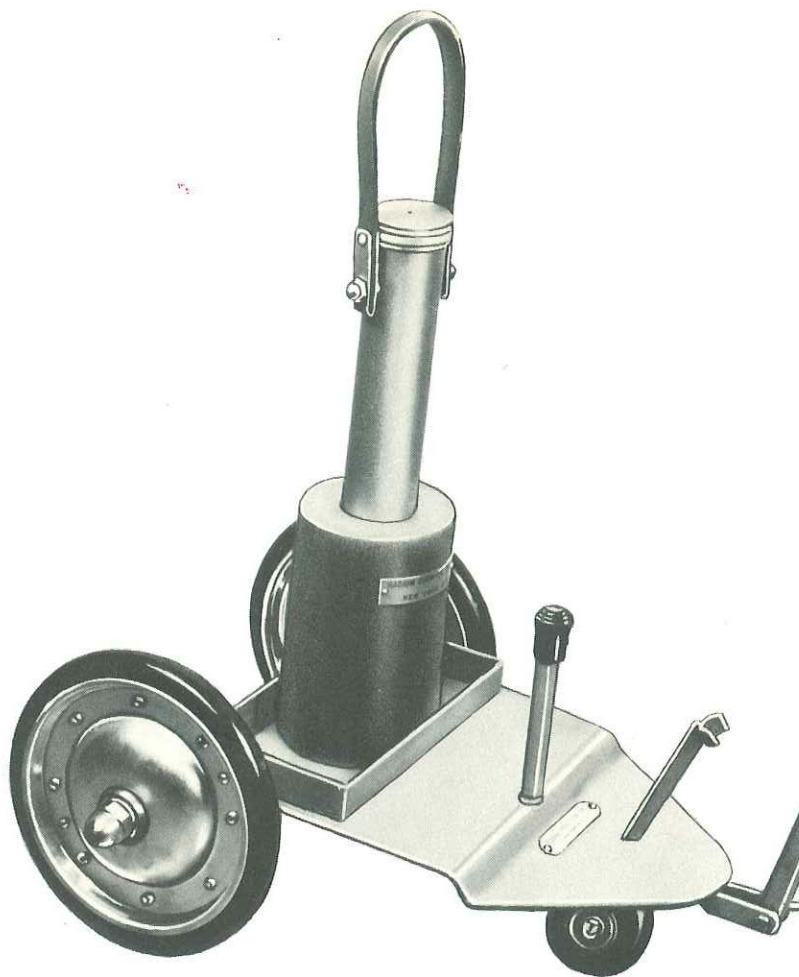
1" Lead monel covered, fitted with 6" x 2" x 2" metal liner and lock. Total height 15", weight 43 pounds.



Applicator Carrier
No. 451

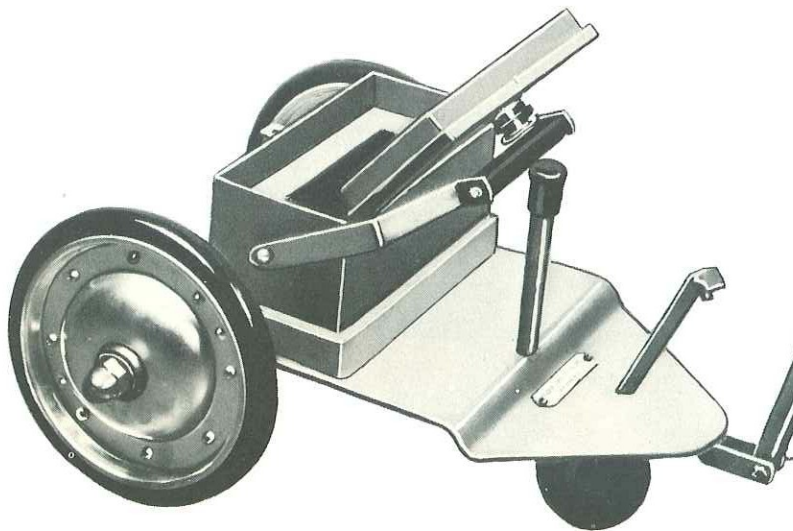
1/2" Lead, internal diameter 2", total height 15". Weight 18 pounds, strap handle.

PROTECT



Heyman Carrier and Transport Cart
No. 500

Cart is fitted with two 8" conductive rubber wheels and 3" castor. Handle is 40" long for distance. Rolls easily on and off elevators. Carrier is removable.



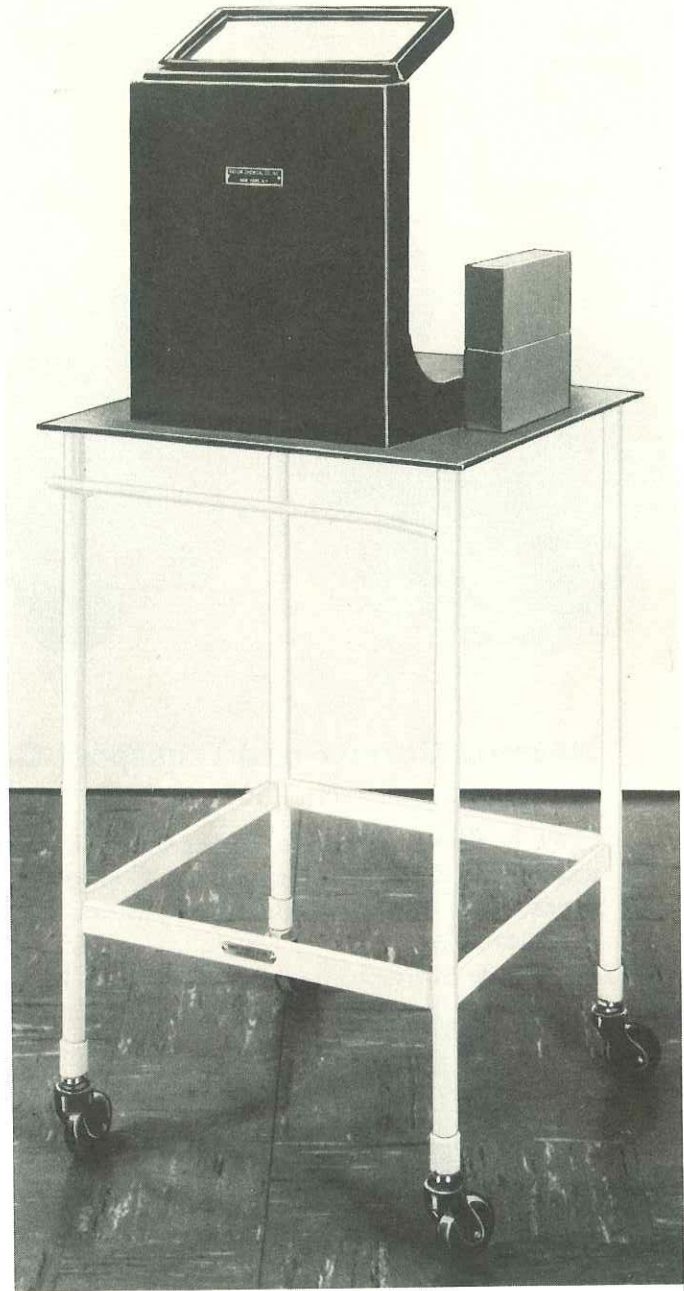
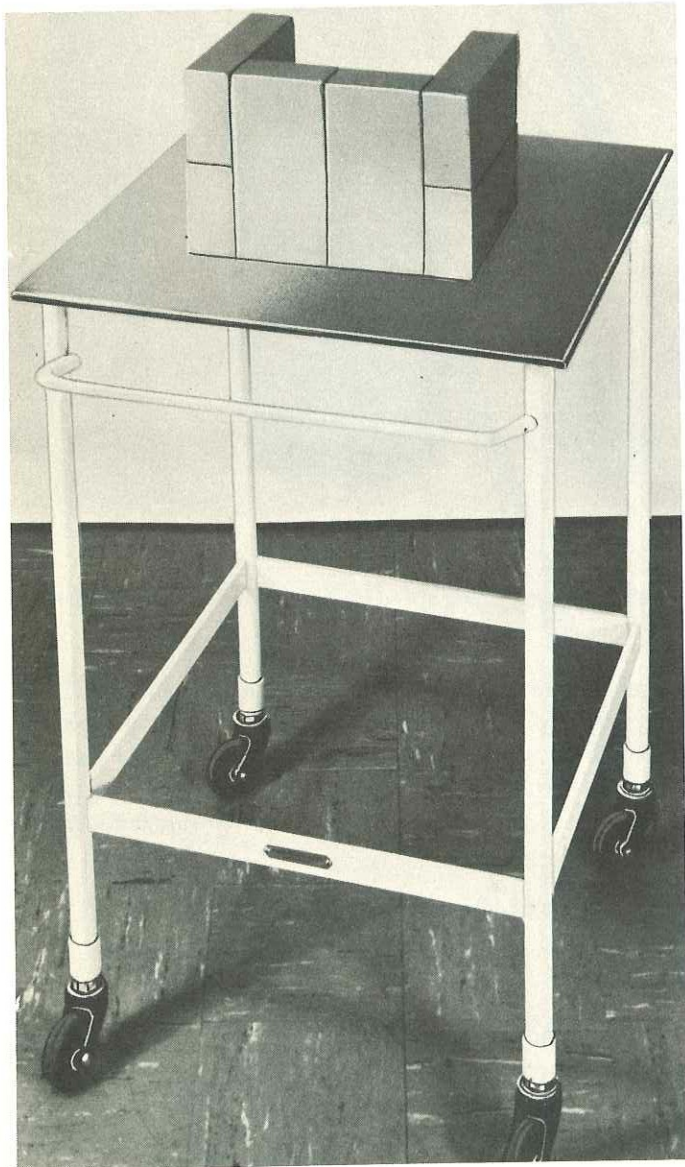
Ernst Applicator Carrier and Transport Cart
No. 501

Conductive rubber wheels enable loaded applicators to be carried from preparation area to operating room. Short handled case may be lifted to treatment table. Case is monel covered with lock. Designed for speed and distance.

PROTECTION

ROLLING STAND NO. 6505

Specially designed steel table with a stainless steel cover to hold protective devices in operating room or preparation area. Heavy duty 3" conductive rubber casters aid in movement. #708 lead blocks 2" x 4" x 8" form a protective well which may be sterile draped.



ROLLING STAND NO. 6505

Steel stand holding #472 large protective angle block. Lead blocks #708 form side barriers for additional protection.

**RADIUM PREPARATION
AND
STORAGE UNIT**

No. 2650

Picturing:
Special Steel Bench with drawer

No. 47032

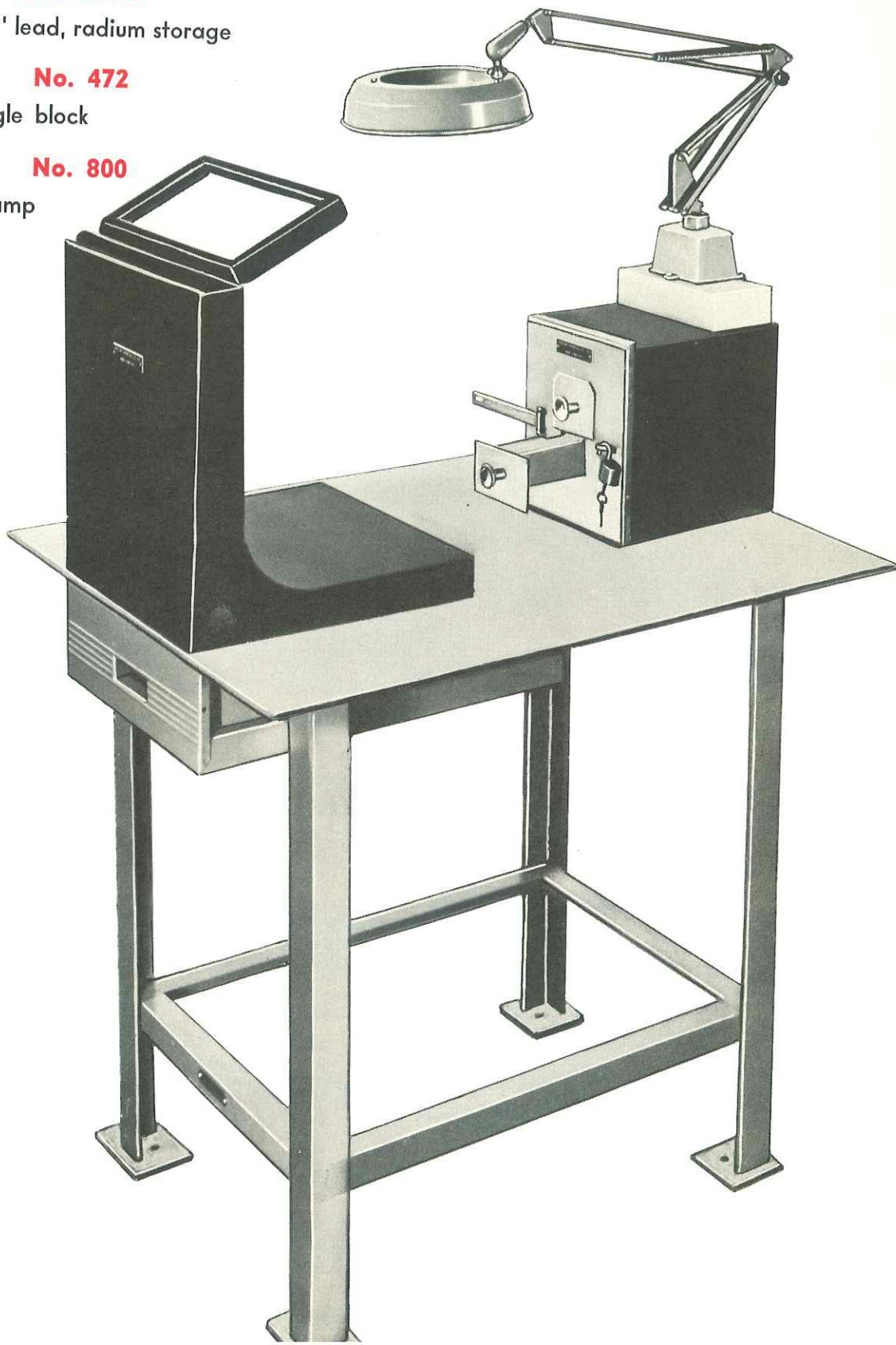
Safe — 3" lead, radium storage

No. 472

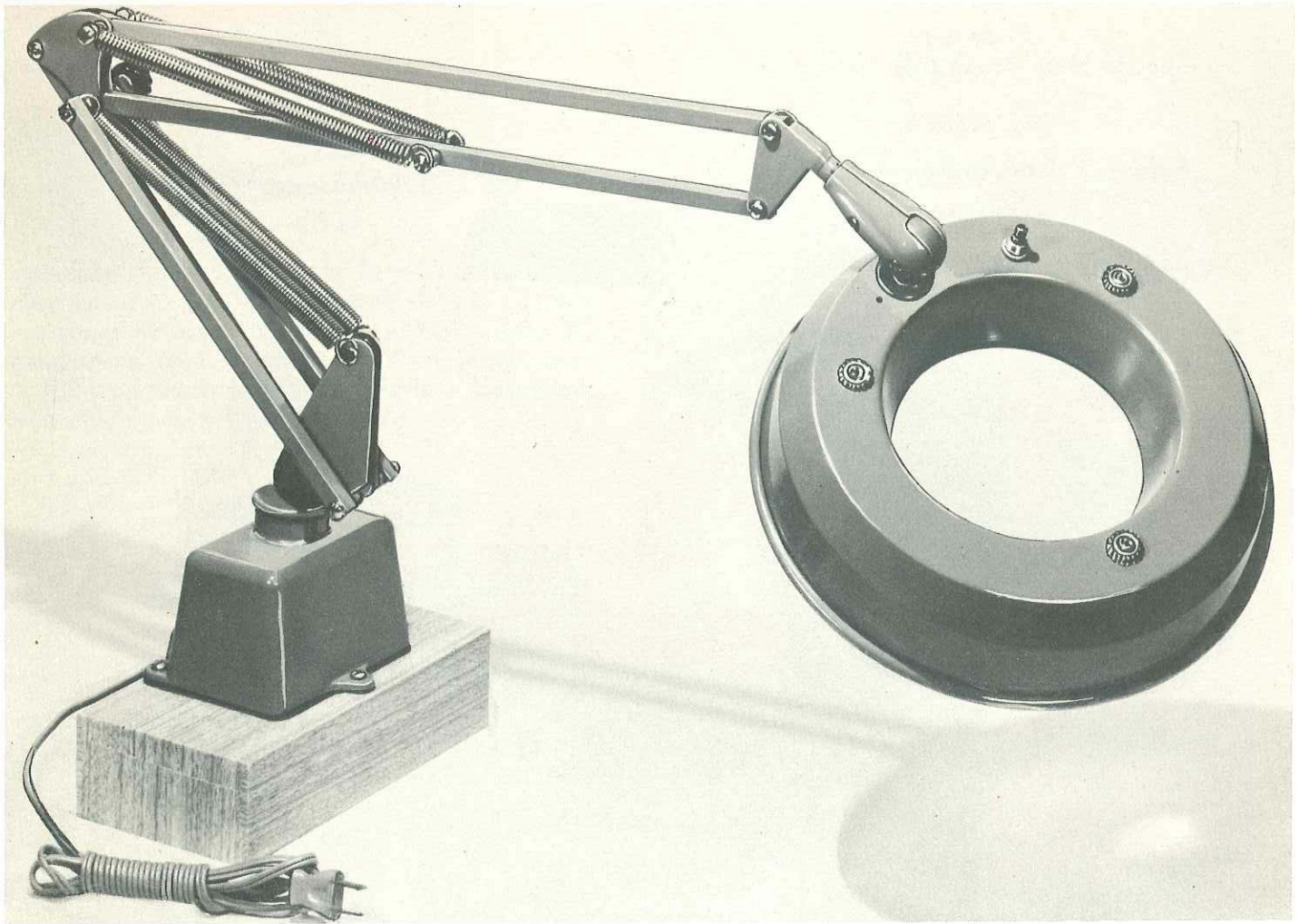
Large angle block

No. 800

Viewing lamp



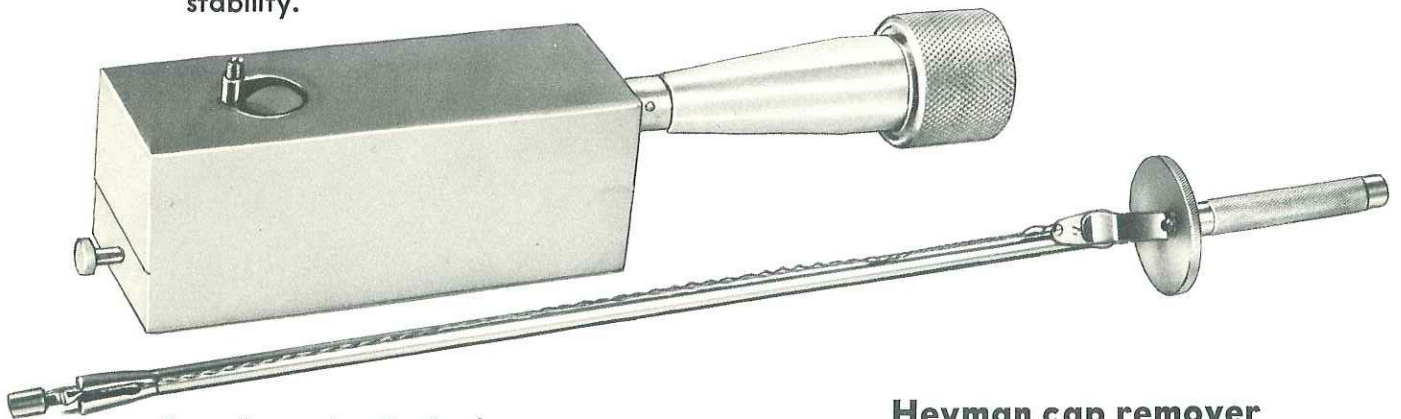
PROTECTION



Viewing Lamp

No. 800

Spring loaded extension arms hold magnifying glass in any position. The circular lamp places excellent light on the work area and operates on 110V A.C. current. The entire lamp is mounted on a 26 pound lead block for stability.



Lead protected vise

No. 474

Designed to hold capsules and tandems during the loading and unloading operation. Lead jaws and long handle add protection.

Heyman cap remover

No. 442CR

The problem of opening and closing Heyman capsules is eliminated by this 14" cap remover. When used with the #474 vise behind the #472 angle block unnecessary exposure is eliminated.

RADIUM LEASING PROGRAM

LEASING

- COST** Your Radium therapy program can begin by leasing necessary preparations at a very low monthly rate.
- CONTINUOUS POSSESSION** You are able to treat your cases immediately, because you will have your Radium available at all times.
- MODERN PREPARATIONS** We offer the latest and most versatile units for all types of therapy. These Radium preparations are designed for use with the applicators pictured in this catalog.
- INSURANCE** The Radium is covered with full loss insurance at no extra cost to you.
- AVAILABILITY** You can begin your RADIUM program at once. Select the types required and call or write for your shipment.

LOW CONTENT NEEDLES

A limited number of low content needles are available to customers with a lease of 100 milligrams or more. The needles pictured are loaded 0.66 milligrams per cm.

PLATINUM-IRIDIUM NEEDLES

5-Milligram

14.5 mm. x 1.7 mm. x 0.5 mm. wall



10-Milligram

19.0 mm. x 1.7 mm. x 0.5 mm. wall



PLATINUM-IRIDIUM TUBES



10-Milligram

21.7 mm. x 2.8 mm. x 1.0 mm. wall



15-Milligram

22.5 mm. x 2.9 mm. x 1.0 mm. wall



25-Milligram

15.0 mm. x 3.5 mm. x 1.0 mm. wall

LOW CONTENT PLATINUM-IRIDIUM NEEDLES

1-Milligram

27.7 mm. x 1.65 mm. x 0.5 mm. wall

2-Milligram

44.0 mm. x 1.65 mm. x 0.5 mm. wall

3-Milligram

60.0 mm. x 1.65 mm. x 0.5 mm. wall

MONEL METAL NASOPHARYNGEAL APPLICATOR



50 Milligrams of radium element in a 21.5 mm. x 2.3 mm. x 0.3 mm. capsule on a 6" handle.

RADON



No. 1F

Forceps for loading implanters

No. 10G
Depth gauge



No. 14

Four inch implanter — 2 inch point



Rigid Implanter—2 inch point

Available in 6" (#16), 8" (#18), 10" (#110), 12" (#112), 14" (#114), 18" (#118), and 24" (#124) lengths



No. 110-1

Ten inch implanter with 1 cm. point



Semi-flexible implanter

Available in 8" length — 4" point — (#18-4).
10" length — 6" point (#110-6) or 8" point (#110-8)



No. 100

Flexible cystoscopic implanter — 14 1/2"



No. 100F

Pickup and loader for No. 100



C curve



D curve



SX curve



OB curve



RA curve



SC curve

Curved implanters available in 6" (#106-), 9" (#109-) and 11" (#111-) lengths

RADON

RADON IMPLANTS

UNSURPASSED RELIABILITY AND SERVICE

Due to the increased usage of Radon implants throughout the United States we are pleased to give you the following information to aid in securing Radon implants.

ORDERING

By letter, telephone or telegram, or by free order cards. Give date and time of operation.

STRENGTH

Available in any strength from 0.05 millicuries to 5.0 millicuries at time of use. Specify number and strength desired.

INSTRUMENTS

Loaned free of charge for each case. Indicate type desired (see pictures on Page 22) or indicate location of lesion.

DELIVERY

Seeds shipped in free lead container via fastest method within I.C.C. Regulations.

RETURN of Instruments

Simply place lead cylinder and instruments in shipping box. Affix return label and notify rail express for pick up.

IMPLANTS

Physical dimensions of Gold Radon Implants

4.00 mm. in length
0.75 mm. in diameter
0.30 mm. wall thickness
24 K Gold

CALIBRATION

All Radon implants are measured against standards which have been calibrated by The National Bureau of Standards.

We know you demand accuracy and prompt service for Radon implants. During the past forty years we have supplied the finest and most accurate gold Radon implants to leading hospitals, clinics and physicians.

EXPERIENCE—RELIABILITY—SATISFACTION

ADDITIONAL ACCESSORIES (not pictured)

No. 29

Brass eye screens — 1 mm. brass gold-plated. Small or large — with suction cups.

No. 60

Needle point remover for sheath needles

No. 409

7" Steel needle to thread rubber sounds

No. 415

Needle thread — black braided silk U.S.P. 2

No. 416

Needle thread — white braided silk U.S.P. 2

No. 417

Needle thread — white waxed U.S.P. 1

No. 418

Needle thread — black waxed U.S.P. 1

No. 423

Needle thread — blue U.S.P. 0 — 20 yards

No. 420

Caution tags, 2" x 4" — boxes of 100

No. 424

Needle and tube threader

No. 436

Andrews tray for plaques — 2 mm. brass with copper clips

No. 441

Silver-stainless steel Ernst for cells

No. 454

Healy vaginal bomb for tubes or for needles — specify

No. 455

Schuberts curved biopsy punch

No. 47034

Radium storage cabinet — 3" lead
4 drawers, 3 drilled, 1 open 6" x 2" x 2"
10½" wide, 11½" high, 12" deep. Weight 540#

No. 47042

Radium storage cabinet — 4" lead
2 drawers, 1 drilled, 1 open 6" x 2" x 2"
10½" wide, 10½" high, 12½" deep. Weight 580#

No. 47044

Radium storage cabinet — 4" lead
4 drawers, 3 drilled, 1 open 6" x 2" x 2"
12½" wide, 12½" high, 14½" deep. Weight 870#

No. 475

Adjustable chuck for opening tandems

No. 480

Kerr's molding compound

No. 481

Unfilled molding wax. Thickness 1.0 cm.
Sheet 28 cm. x 20 cm. — for surface molds and plaques

No. 482

Filled molding wax. Contains hardwood dust to maintain shape for plaques and molds. 1.0 cm. thickness. Sheet 28 cm. x 20 cm.

No. 483

Filled molding wax. Identical with No. 482 except 1.5 cm. thick

No. 487

14" Cap remover for silver screens with bulldog eyelets

No. 488

12" Cap remover for platinum capsules for cells

No. 491

Weisman-Graves vaginal speculum for cervical applicators, small, medium

No. 600

Holt radium dosage nomographic wheel in plastic case

No. 602

Set of six silver-plated Gougelman eye shields

No. 704

Extruded flat-sided lead blocks — 2" x 4" x 4"

No. 708

Extruded flat-sided lead blocks — 2" x 4" x 8"

No. 900

Ra-di-clean — one pound box of instrument and glassware cleaner and wetting agent

Special applicators, safes and handling devices made to your specifications.

**DO NOT FORGET TO ORDER
Ra-di-clean**

No. 900 - One pound can

Keep your mechanical applicators in perfect condition. This excellent cleaning and wetting agent is the answer to the problem of removing solids and fluids. After treatment, soak the applicator for a few minutes in a solution of warm water and Ra-di-clean; only one tablespoon to a gallon of warm water. Not a sterilizing agent.

Problems of cleaning glassware used for isotope samples? Radiologists tell us that this is the best they have found to decontaminate glassware after using radioiodine 131. A single washing in Ra-di-clean will reduce the background in pipettes, flasks and dose bottles to extremely low levels.

Order a supply now for your isotope laboratory and your radiation therapy department.

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NEW AND IMPROVED LEAK TEST SERVICE FOR RADIUM SOURCES

A new service that combines high precision and low cost, with the added advantage of a simple accurate sampling method, is now available from the RADIUM CHEMICAL COMPANY, INC.

This commercial service provides a graphic record of the actual GAMMA SPECTRUM as a permanent record for your files.

A test kit and simple instruction sheet are supplied. All preparations remain in your possession.

You will be notified by telegram of the test results.

Alternate plans are available.

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**We offer the following plans for leak test of
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PLAN A - SPECTROGRAPHIC

1. We supply necessary vials for each test to be made.
2. You will receive a complete set of instructions.
3. Preliminary findings will be sent via night letter.
4. A confirming report, including GAMMA SPECTRUM, will be issued for your files.
5. This charge is only \$10.00 for each test vial.

PLAN B - REGULAR

1. We supply vials for each test to be made.
2. You receive a complete set of instructions.
3. A night letter of results followed by written report only is sent for your records.
4. This charge is \$7.50 for each test vial.

Included in each plan will be a test to check possible contamination of your storage area. There will be no charge for this service.

WRITE US FOR THE NUMBER OF TEST VIALS REQUIRED AND THE
TYPE SERVICE DESIRED.

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