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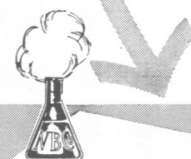
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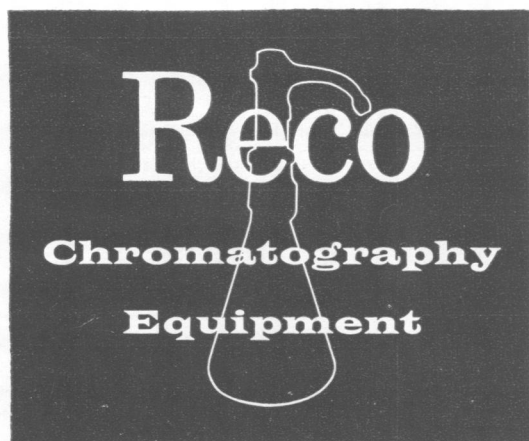


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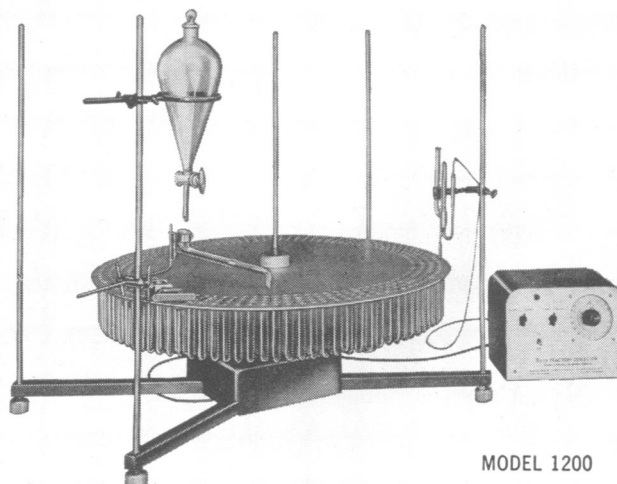


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## Equipment News

All inquiries concerning items listed here should be addressed to Science, Room 604, 11 W. 42 St., New York 36, N.Y. Include the name(s) of the manufacturer(s) and the department number(s).

■ **DIALYZER** provides mechanical dialysis of a number of samples simultaneously in fixed volumes of dialyzate and buffer or by continuous flow. Agitation of buffer and specimen is accomplished by a revolving turntable that is tilted at an angle, and the speed of dialysis is controlled by varying this angle. For continuous-flow dialysis, a stainless-steel container with an overflow control receives and vents liquid from a circulating cooler or water tap. (Laboratory Glass and Instruments Corp., Dept. S4)

■ **SCANNING SPECTROMETER** is capable of detecting impurities to 1 part/10<sup>9</sup> and produces a first-order reciprocal linear dispersion of 16 Å/mm at the exit slit, with a minimum resolution of 0.2 Å. Variable-speed scanning in either direction is possible. (Jarrell-Ash Co., Dept. S7)

■ **SPECTROPHOTOFUOROMETER** permits continuous activation of compounds and measurement of resulting fluorescence throughout the visible and ultraviolet regions. Quantities of 0.01 to 1 µg/ml may be determined in quantitative assays of organic compounds that fluoresce. Only 1 ml of sample is required, and a range of 200 to 800 mµ is covered by an activating and a fluorescent monochromator. The unit consists of xenon lamp, monochromators, ballast and control for the lamp, a photomultiplier, and a microphotometer. (American Instrument Co., Inc., Dept S8)

■ **DENSITOMETER** gives continuous account of variations in oxygen saturation of blood taken from specific regions of a patient's heart through a catheter. Blood flows directly from the catheter through the instrument. (Colson Corp., Dept. S9)

■ **AQUATRATOR** utilizes Karl Fisher reagent for rapid determinations of moisture contents from 0.005 to 100 percent in liquids and solids. The burettes have a capacity of 25 ml with a reservoir of 1000 ml, and the sample container has a capacity of 100 ml. Samples are weighed in a sample beaker with a magnetic stirring rod. An excess of the reagent is back-titrated with a standard solution of water and methanol. A double platinum electrode gives immediate readings of the approaching end-point, which is indicated on a meter. (Precision Scientific Co., Dept. S10)

# PERSONNEL PLACEMENT

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Entomologist, Ph.D., 43; experience in taxonomy, teaching, research, faunistic survey, and curatorial work; desires change. Prefer non-industrial position. Box 181, **SCIENCE**. 8/3

Physiologist; Ph.D., 8 years' university teaching; since 1948 research director, well-known research institution. Medical Bureau (Burneice Larson, Director), Palmolive Building, Chicago. X

Virologist-Bacteriologist, Ph.D.; 3 years' varied industrial experience. Now completing graduate training. Available September. Desires research position. Box 186, **SCIENCE**. X

## POSITIONS OPEN

Bacteriologist, young M.S. or Ph.D., assistant professor in bacteriology. Give biographical sketch, references. Box 457, Southwestern Louisiana Institute Station, Lafayette, La. X

## BACTERIOLOGIST

Prominent ethical northern New Jersey pharmaceutical manufacturer is expanding research program. Needs bacteriologist on doctorate level with 3 to 5 years' experience, preferably in the drug industry. Send curriculum vitae to Box 187, **SCIENCE**.

Pharmacologist—Research division of prominent pharmaceutical manufacturer has opening for pharmacologist to conduct research on the pharmacodynamic action of drugs. Salary commensurate with training, experience, and ability. Eastern location. In reply state age, education, experience, and salary desired. Our staff knows of this advertisement. Box 174, **SCIENCE**. 7/20, 27; 8/3

Ph.D. in Biochemistry. Research in protein and enzyme chemistry. Experience with blood clotting helpful. Complete charge of chemical aspects of new research project. Prefer experience, will consider recent degree. Apply Personnel, New York University-Bellevue Medical Center, 420 E. 34 St., New York 16, N.Y. X

Physical Chemist. Organic-Physical Ph.D., 30-35, to head group of investigators on long-range fundamental research problems of food technology in western Pennsylvania research institution. Soundly good future for right man who possesses leadership. Give full details of education, experience, salary requirements in first letter. Box 182, **SCIENCE**. 8/3, 10

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Steroid Chemist: Ph.D. or equivalent to work with departmental research group in a Philadelphia medical school on problems in reproductive physiology. Permanent position. \$6500. Send complete résumé. Box 185, **SCIENCE**. X

## POSITIONS OPEN

Publishing House. Male college graduate (with or without advanced degree) desired by eastern publisher for career in acquisition and promotion of books in the life sciences. Required: 3 months travel yearly to colleges, residence near home office. Desirable: training and/or teaching in life sciences (physical education, biology, pharmacy, dentistry, medicine). Salary: \$350 minimum, depending on qualifications. In reply please include background, recent photograph, age. All replies acknowledged. Box 184, **SCIENCE**. X

Research Microbiologist. Minimum of 6 years required in either an industrial or academic capacity. A good background in immunology and biochemistry required. Ph.D. preferred, but will consider M.S. Salary open. Inquire of Dr. Earl B. Gerheim, Sherman Laboratories, 5031 Grandy, Detroit 11, Michigan. 8/10, 17, 24, 31

Spectroscopist Analyst: Research analytical laboratory of East Coast pharmaceutical manufacturer seeks Ph.D. in chemistry; 25-35, with several years' postdoctoral experience, qualified in both ultraviolet and infrared spectroscopy and preferably with experience in chemical analysis. Liberal benefit program. Send complete personal data. Box 173, **SCIENCE**. 7/20, 27; 8/3

(a) Toxicologist, Ph.D. or M.D., or physician with particular interest in biochemistry or pharmacology; duties consist of serving as adviser on problems of toxicity of materials and products; large industrial company; East. (b) Pharmaceutical Chemist; Ph.D.; will consider one with master's if well experienced; university department; rank dependent qualifications. (c) Senior or Associate Biochemist to work collaboratively with group of biologists in separation of closely related pituitary proteins; university research department. (d) Biochemist and Bacteriologist, Ph.D.'s., qualified to assume supervisory responsibilities, laboratories, large hospital; up to \$10,000; California. (e) Biochemist, Ph.D. or M.D., experienced with enzyme chemistry, to direct medicocochemical laboratory. 600-bed teaching hospital; medical center; East. \$8-1 Medical Bureau (Burneice Larson, Director), Palmolive Building, Chicago. X

Translators, Russian (and/or other languages) into English. Must have adequate scientific background, English as native language, biology and medicine, biochemistry, chemistry, electronics, mathematics, metallurgy, and physics. Full or part time. Submit detailed, typed résumé and sample translation. Box 183, **SCIENCE**. X

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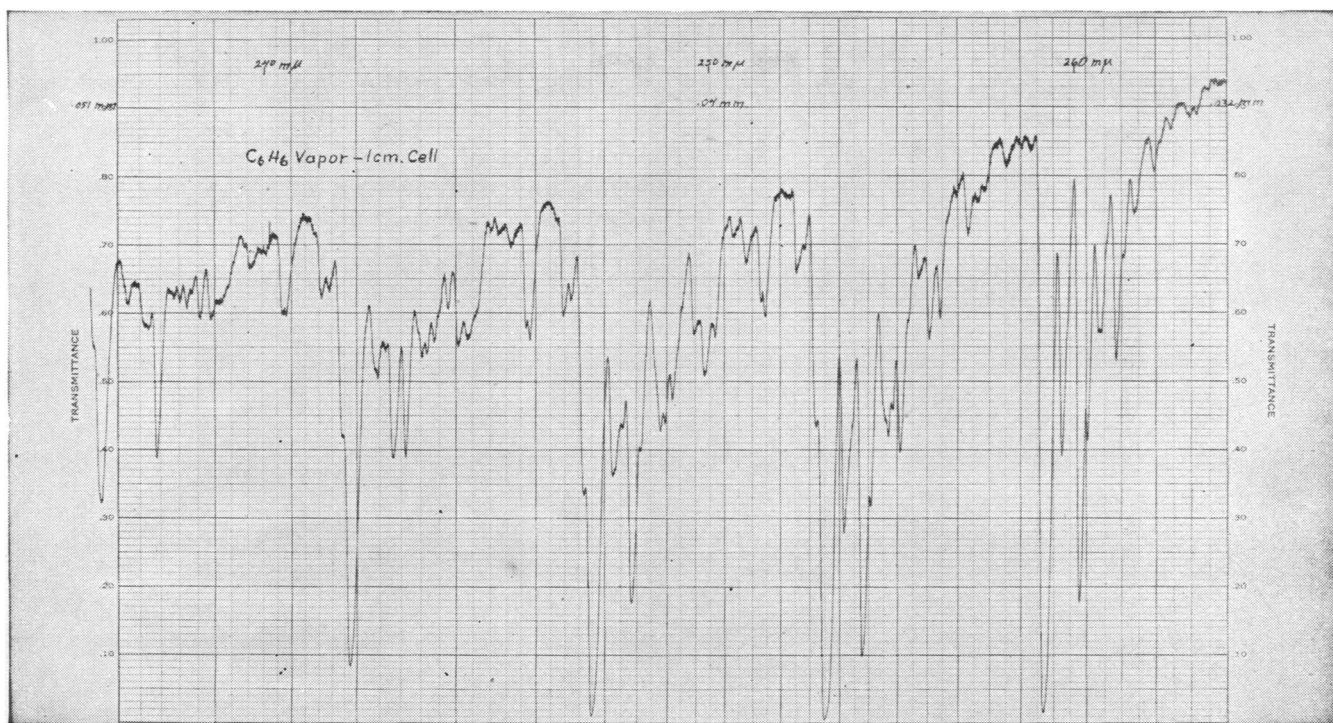
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The Warren Spectracord—well known as a versatile and reliable recording unit for ultra-violet monochromators—has joined the Perkin-Elmer family of products. In addition, a new *double* monochromator, expressly designed for use with the Spectracord is also available from P-E.

A Spectracord equipped with the new double monochromator permits greatly improved performance over the earlier single monochromator combination at a nearly comparable price. Stray radiation is reduced to the vanishing point. Resolution is increased throughout the range. Operation at considerably higher absorbancy levels is thus possible.

The Spectracord is still available as an attachment to existing single monochromators. As a Perkin-Elmer product it is now backed by P-E's extensive service and application engineering facilities.

If you are considering expanding your UV facilities, either through additional equipment or by modernizing your present monochromator, why not consider the Spectracord? We will be glad to supply complete information.

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# Thomas

# PINCH CLAMPS

► For quick, convenient and safe mounting and dismantling of apparatus with spherical interchangeable ground glass joints

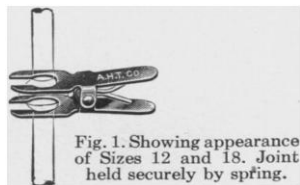


Fig. 1. Showing appearance of Sizes 12 and 18. Joint held securely by spring.

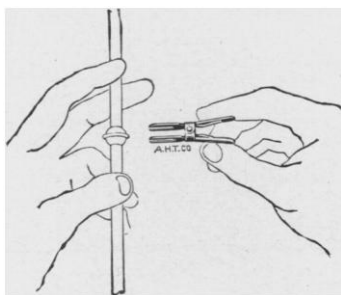


Fig. 2. Showing method of attaching to joint. Parts held securely by spring upon release of finger pressure.

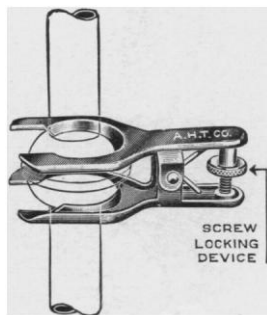


Fig. 3. Showing appearance of Sizes 28 to 75, incl., with locking device screwed into position.

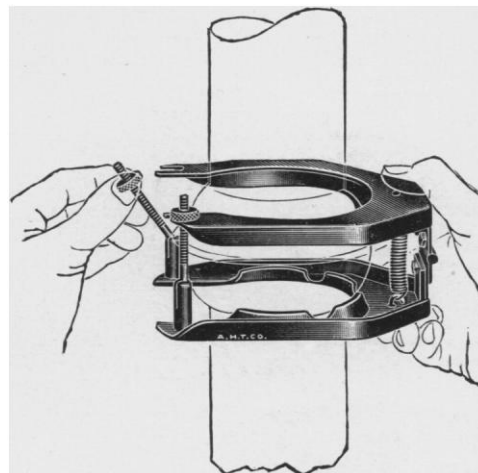


Fig. 4. Showing appearance of Size 102 and method of fastening in position.

**THOMAS PINCH CLAMPS, (Patented).** For use on spherical ball-and-socket and most semi-ball glass joints. Of brass, with smooth, black, corrosion resistant finish, and with strong, spring closed, forked jaws. With the two parts of the glass joint held in one hand, and the Clamp held between thumb and forefinger of the other hand, as shown in Fig. 2 and Fig. 4, the Clamp can be quickly slipped over the joint. When pressure is released, the two parts are held securely by the spring.

Sizes 28 to 75, inclusive, are provided with a screw locking device—as shown in Fig. 3—in addition to the spiral spring. Size 102 has flat hinge and spiral spring between the upper and lower jaws which permit adjustment of the clamp

over the joint with one hand. Two slotted posts, each fitted with hinged screw and knurled head nut, are provided at the mouth of the forked jaws to lock the clamp securely in position.

A considerable load can be suspended from the joint without danger of leakage. However, the Clamps are designed primarily for securing the joint and are not intended to replace the usual clamps, rings, tripods, etc., as ordinarily used for supporting glassware assemblies.

The use of these Clamps adds greatly to the convenience and speed of mounting and dismantling glass apparatus with spherical interchangeable ground joints, and reduces the possibility of breakage in handling.

**3241. Pinch Clamps, Thomas,** as above described. The size number indicates the diameter in millimeters of the ball over which the Clamp fits.

Size number.....	7	12	18	28	35	50	65	75	102
Carton contains.....	12	12	12	12	12	12	12	6	4
Takes standard spherical joint No.....	7/1	12/1 to 12/5, incl.	18/7 and 18/9	28/11 to 28/15, incl.	35/20 and 35/25	50/30	65/40	75/50	102/75
Minimum width of fork opening in jaw, mm.	4.5	10	13	21	30	37	48	58	82
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