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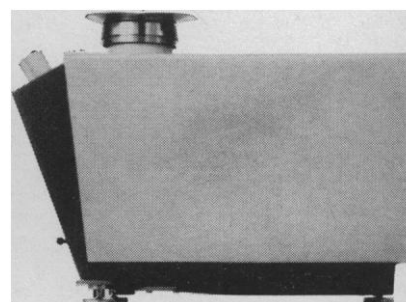
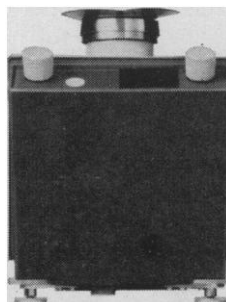
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Indicator solutions are available in push-button dispensers which allow the user to dial the volume of indicator desired. The 2-oz (49-ml) dispenser has a cap calibrated in 0.1-cc steps from 0.1 to 1.0 cc. The desired volume is dialed, the cap's button is depressed, allowing the dropper to take up the required volume, and the button is depressed again to dispense the indicator. Twenty of Fisher Scientific's standardized indicator solutions are avail-

able in this package which eliminates the need for counting drops. These dispensers are designed for use with colorimetric tests which are based on accurate matching of sample color with a set of comparison colors. They assure that indicator composition and volume are reproduced accurately from test to test.—D.J.P. (Fisher Scientific Co., Dept. S254, 415 Fisher Bldg., Pittsburgh 19, Pa.)

Rhenium-tungsten filaments for gas chromatography detectors provide greater signal and longer life than tungsten filaments. These new filaments utilize an alloy of tungsten with 3 percent rhenium. The addition of rhenium increases temperature coefficient of resistance, resistivity, and resistance to oxidation at elevated temperatures. Electrical characteristics are such that higher voltages are required to obtain normal bridge currents, but even when operated at lower temperatures, some increase in sensitivity is provided. Gow-Mac rhenium-tungsten filaments are offered on the 9225 (single helix) mount, code WX, cold resistance 30 ohms, as well as the 333 (double helix) mount, code W-2X, cold resistance 60 ohms.—R.L.B. (Gow-Mac Instrument Co., Dept. S272, 100 Kings Rd., Madison, N.J. 07940)

Photomicrographic enlarger produces Polaroid print enlargements of 15×, 33×, or 64× magnification from small areas of photographic negatives and film positives. The instrument, designed especially for use in reconnaissance and photogrammetry studies, is also suited for use in the examination of photomicrographs and x-rays in biological research and clinical medicine. Black-and-white or color Polaroid prints of 3¼- by 4¼-inch size (8.3 by 10.8 cm) are obtained in seconds through three steps: the film area of interest is selected on a ground glass screen, the shutter is tripped, and the film tab is pulled for processing. Mag-

nifications of 15×, 33×, and 64× are available through use of three interchangeable objective heads. Film widths up to 9½ inches (24.1 cm) are accepted and the instrument provides high-contrast enlargement resolution of 180 to 635 lines per millimeter. The microscope objective and ocular are housed together in a hinged arm which extends forward over the film support table. Exposure and fine-focus adjustments are provided for occasional trim-up or filter use, but are not normally required. The instrument is suited to table-top operation under normal room illumination. The enlarger measures 9 by 16 by 16½ inches (22.9 by 40.6 by 41.9 cm) and weighs 29 lb (13.2 kg)—D.J.P. (Perkin-Elmer Corp., Dept. S265, Main Ave., Norwalk, Conn.)

Solvents for use in far ultraviolet spectrophotometry are now available with cut-offs that extend well into the far ultraviolet region. The solvents have cut-offs ranging from 188 mμ to 207 mμ (determined with 1-cm cell path using nitrogen of high purity as a reference). Residue, 0.0005 max.; moisture, 0.05 max.; fluorescence, less than 0.5 percent as quinine base.—R.L.B. (Matheson Co., Inc., Dept. S269, P.O. Box 85, East Rutherford, N.J.)

High-temperature thermistor thermometer (model 61) covers the range of 250° to 500°F (121° to 260°C) in two overlapping ranges. Its absolute accuracy over most of that range is ± 3°F (1.7°C) and its readability and repeatability are better than ± 1°F (0.6°C). Thermistor probes are available for measurements in liquids, gases, on surfaces, and in semisolids. The instrument is designed to allow front panel calibration of new probes if a probe is damaged or a different style of probe is desired. This calibration can be accomplished in less than a minute from information printed on the probe. Once calibrated, no recalibration is required unless a new probe is substituted. The instrument is battery powered, rugged, and portable, with a fold-back handle provided as standard. It is compensated for operation in ambients from 32° to 125°F (0 to 51.7°C). A recorder jack provides an output of 160 mv for full-scale deflection.—R.L.B. (Yellow Springs Instrument Co., Inc., Dept. S273, Box 279, Yellow Springs, Ohio 45387)

The material in this section is prepared by the following contributing writers:

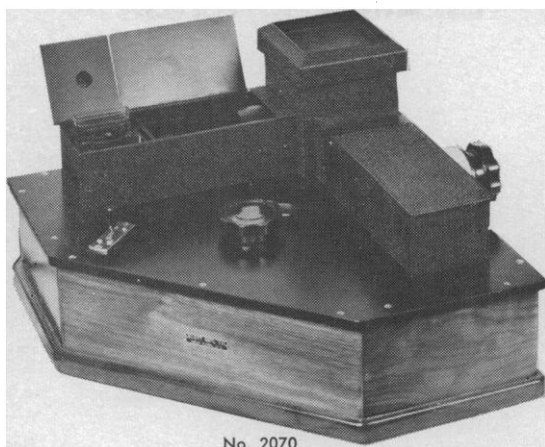
Robert L. Bowman (R.L.B.), with the assistance of Denis J. Prager (D.J.P.), Laboratory of Technical Development, National Heart Institute, Bethesda 14, Md. (medical electronics and biomedical laboratory equipment).

Joshua Stern (J.S.), Basic Instrumentation Section, National Bureau of Standards, Washington 25, D.C. (physics, computing, electronics, and nuclear equipment).

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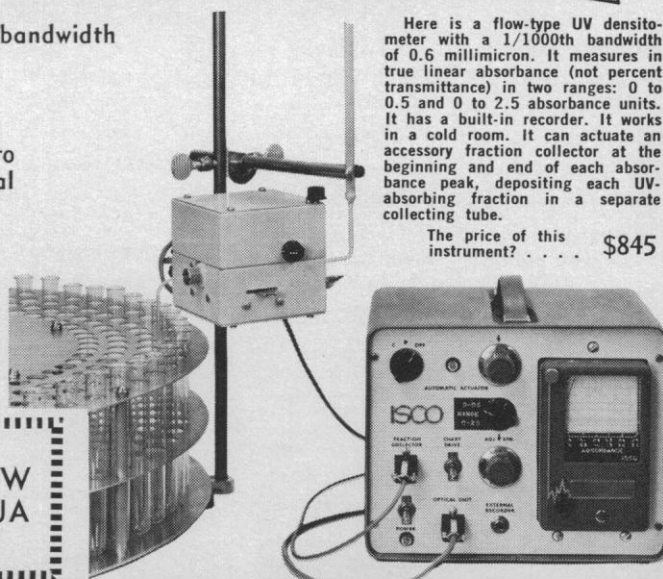
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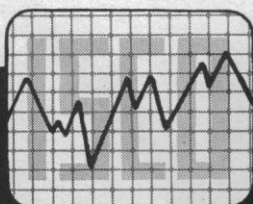
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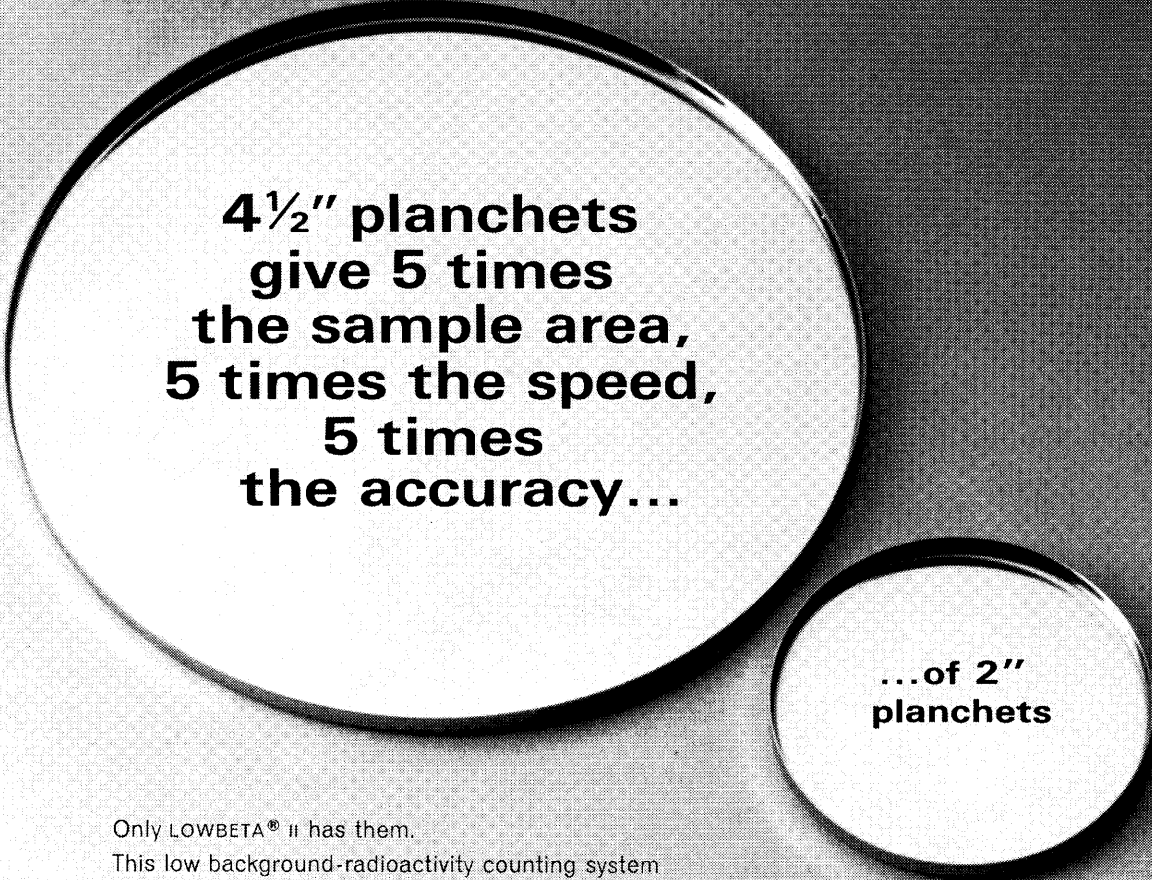
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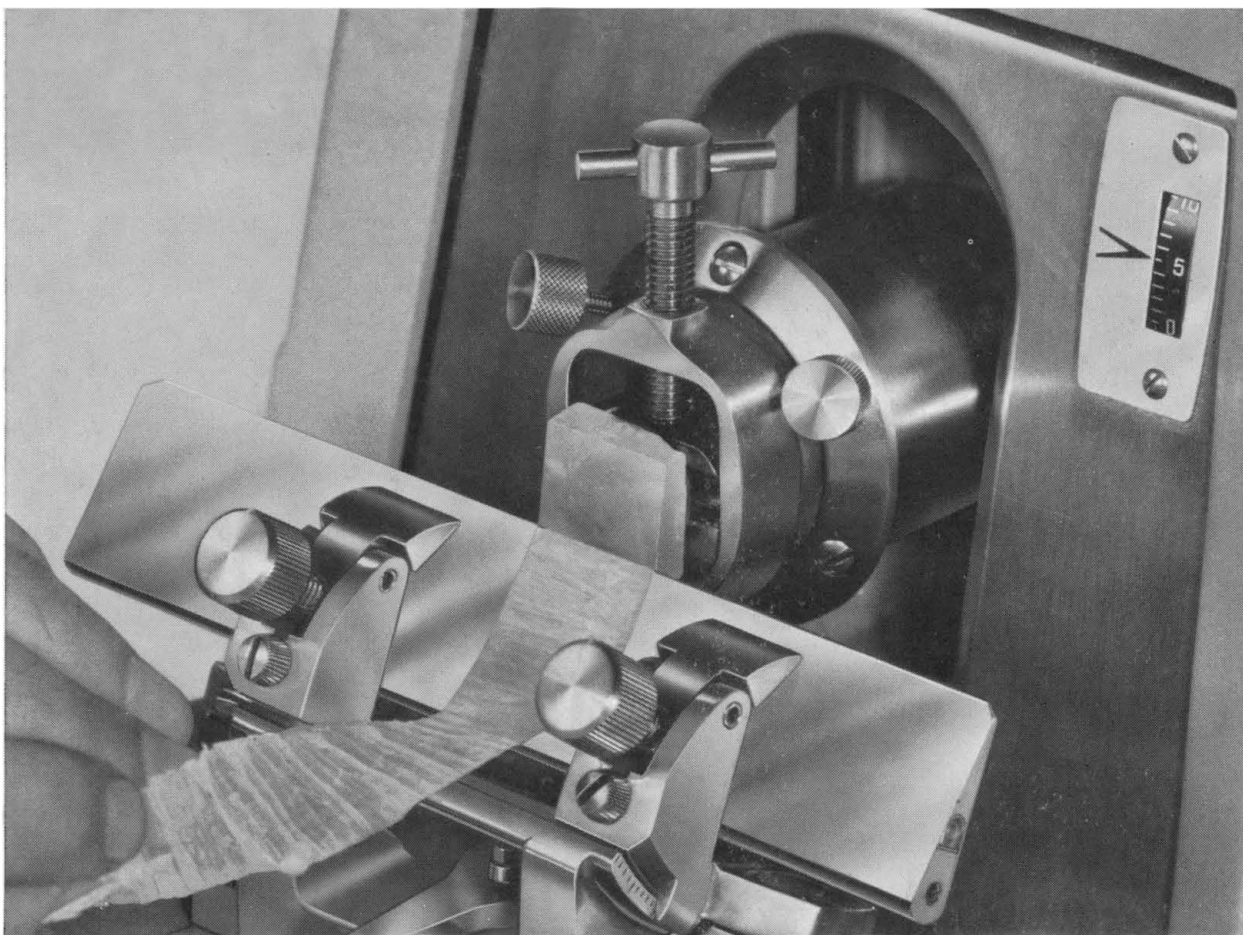
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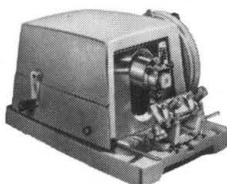
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