



Model "K"

For sectioning of undecalcified bone, plastics, and other extremely hard materials.

Model "Tetrander"

For large specimens in paraffin or celloidin embeddings.

Model "L"

Immersion microtome for brain and lung sections.

etrander" Microtome Knives

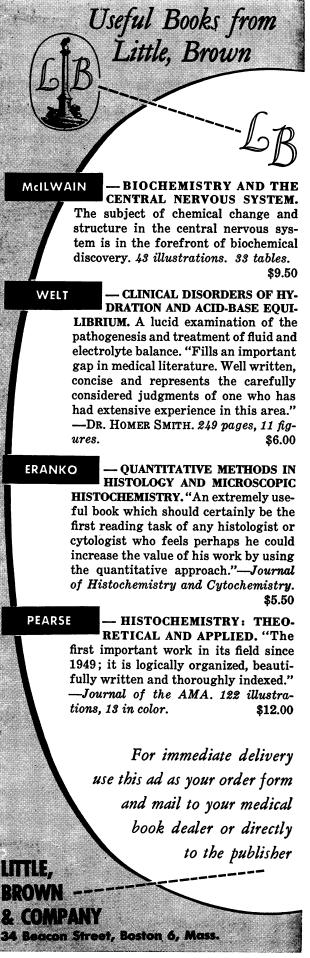
Finest surgical steel, of all profiles, for every application.

Write or phone today for further details

WILLIAM J. HACKER & CO., INC. 82 BEAVER STREET, NEW YORK 5, N. Y.

Telephone BOwling Green 9-8750

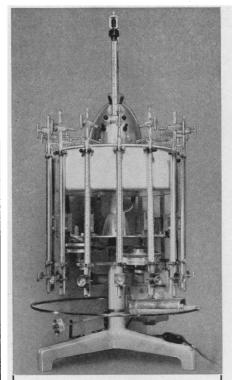
U.S. Representative for JUNG, famous for precision microtomes and knives since 1872.



Equipment News

- REGULATED POWER SUPPLY suited for calibrating meters and powering multistage amplifiers, computers, and various other laboratory instruments has been announced. The model PR 300 has an output tolerance for line-voltage fluctuations up to 10 percent of 0.002 percent or less. Reliability of voltage readings is 0.02 percent or 5 mv, whichever is greater. Other characteristics of the regulated power supply are its stability, low output-voltage ripple, and low impedance. (Oregon Electronics, Dept. Sci., 2232 E. Burnside St., Portland 15, Ore.)
- VIBRATING-REED ELECTROMETER, model 31, is suitable for mass spectrometry, measuring radioactivity and electric properties, determination of isotopes, such as carbon-14, tritium, sulfur-35, and for other applications. The new instrument is capable of detecting currents as small as 1×10^{-5} µµa originating in a high-impedance source. Voltages as small as 0.02 mv can also be detected. (Applied Physics Corp., Dept. Sci., 362 W. Colorado St., Pasadena, Calif.)
- BOOKLET entitled "Atomic energy materials" covers the uses and properties of such basic elements as cadmium, cobalt, titanium, uranium, and zirconium. Copies are available. (National Lead Co., Dept. Sci., 111 Broadway, New York 6.)
- AUTOMATIC CAMERA that is designed to compensate for human error and to prevent fraud simultaneously photographs an event and records on the same frame any data desired. Data are electrically transmitted to the camera from remote computing machinery or activating devices. (Taller and Cooper, Inc., Dept. Sci., 75 Front St., Brooklyn 1, N.Y.)
- FIELD EMISSION ELECTRON MICROSCOPE capable of magnifications up to 2 million diameters is available either as a classroom demonstration model or as a completely equipped research instrument for applications in metallurgy, lighting, communications, crystallography, catalysis, and oxidation-reduction processes on metallic surfaces. The instrument consists of a fine needle sealed into one end of an evacuated tube that points toward a fluorescent screen at the opposite end. When 5000 v are applied to the needle field, emission is strong enough so that the resulting picture can be projected on a large screen or photographed with a motion-picture camera. The instrument and accessories are approximately the size of a typewriter; controls are designed for operation by inexperienced personnel. (National Instrument Laboratories, Dept. Sci., 6108 Rhode Island Ave., Riverdale, Md.)

Begin Your Micro Respiration Series with Confidence



BRONWILL MODEL UV WARBURG

Compact design—only 201/2 inches diameter, fits easily into corner section of your lab table.

Circular 14 unit-rotates 320° so you can quickly read any of the 14 manometers.

Quiet shaking—with 6 reproducible speeds from 80 to 160 oscillations per minute and 3 amplitudes.

Center stirring - separate fancooled motor provides uniform circu-

Precise thermoregulation - mercto-wire contact thermometer, magnetically adjusted over range 0 to 50° C, with Thyratron relay.

from the bath to start reaction.

Bronwill Warburg Apparatus.

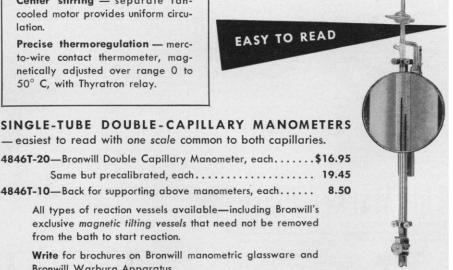
Use BRONWILLthe only Warburg with these

Exclusive Features

- Lagless intra-molecular heating -giving instant response; no immersion heaters to overshoot.
- Built-in cooling coil permitting temperature constancy of $\pm 0.01^{\circ}$ C down to 10° C or below.
- Fastest to set up small bath (only 8 liters) heats from ambient to 37° C in 22 minutes.
- Precalibrated glassware-interchangeable reaction vessels and manometers with volume to the third place etched on each.

4844T-Bronwill Model UV Warburg Apparatus, complete with cooling coil, manometer stands, contact thermometer, but without glassware or manometer supports......\$695.00

4846T-Bronwill Model UVL Warburg Apparatus for photo-chemical work, same as Model UV, but with 14 fan-cooled spotlights mounted to focus on reaction vessels through bottom of plexiglass bath.....\$1275.00



CORPORATION

Specialists in Scientific Supply

ROCHESTER 3, N.Y. • ATLANTA 1, GA. • NEW YORK 12, N.Y. • BALTIMORE 24, MD. • BUFFALO 5, N.Y.

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CLASSIFIED: 18¢ per word, minimum charge \$3.60. Use of Box Number counts as 10 additional words.

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52 times in 1 year

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POSITIONS WANTED

Anatomist, woman, Ph.D., 30 years old, desires academic position. Box 53, SCIENCE. X

Bacteriologist-Biochemist, Ph.D. Several years' research experience in metabolism, genetics. Presently on faculty of leading medical school. Desires challenging research position or research and teaching position. Box 51, SCIENCE. X

Biologist, M.S.; 26, family. Teaching experience in general biology, botany, and human physiology. Desires teaching position. Available September. Box 52, SCIENCE. X

Pharmacologist; late 40's; Ph.D., chemistry; 13 years' teaching experience, pharmacology and physiology, well-known medical schools; 2 years' clinical biochemistry; Far West preferred; \$8000. Woodward Medical Bureau, 185 North Wabash, Chicago.

Physiologist, Ph.D.; 5 years' university teaching; available for research position with pharmaceutical firm or research institution. Medical Bureau (Burneice Larson, Director), Palmolive Building, Chicago.

Plant Physiologist; 10 years' experience research and development in floriculture. Desires research position. Box 54, SCIENCE. X

Research Assistant: 31, B.S.; 5½ years of experience with pharmaceutical company in physiology-pharmacy research. Good knowledge of gross and micromedical photography. Publications, Administrative experience. Desires to relocate. Will consider position in the United States or abroad. Box 48, SCIENCE. 3/16

Zoologist; Ph.D., 1956; research interests in genetics, cancer; publications. Desires teaching position with research opportunities. Box 59, SCIENCE. X

POSITIONS OPEN

Bacteriologist, Ph.D., with training and experience in medical bacteriology, microbial nutrition, and physiology for research investigation in bacterial chemotherapy, although studies related to microbial physiology and metabolism, host-parasite relationships, and so forth, will constitute important segments of the research. Comprehensive benefit program. Eastern manufacturer. Send complete résumé. Box 58, SCI-ENCE. 3/23

BIOCHEMIST

Applications are invited for a position as biochemist to study nutrition and metabolism of marine bacteria and various problems concerned with the biochemistry of fish. Knowledge of manometric and tracer techniques is desirable, and a Ph.D. or its equivalent from a recognized university is required. Send details regarding training, publications, references, and salary required to the Acting Director, Fisheries Research Board of Canada, Technological Station, Vancouver 2, B.C.

3/23, 30; 4/6

CHEMICAL ENGINEER

Applications are invited for a position as chemical Applications are invited for a position as chemical engineer to initiate engineering research on problems concerned with processing of fish and to assist in engineering work already in progress. Applicants should possess a master's or bachelor's degree in chemical engineering, and preferably possess some research experience. Send details regarding training, references, and salary required to the Acting Director, Fisheries Research Board of Canada, Technological Station, Vancouver 2, B.C.

Chemist, Ph.D.—Chairmanship Chemistry Department. Principal interest analytic, inorganic, or physical preferred. Available September 1956. Salary dependent upon qualifications and experience. Send résumé and references to Chairman, Division of Natural Sciences, Hollins College, Virginia.

Microbiologist. Graduate assistantship, research and teaching. \$1700 per year while pursuing study toward M.S. Available in June. Write to D. B. Johnstone, Associate Professor of Microbiology, University of Vermont, Burlington. X

POSITIONS REQUIRING DEGREES IN MEDICINE OR SCIENCE: (a) Biochemist, Ph.D. preferred; familiar with body chemistry, properties and modes of action of drugs; background in chemistry, physiology, pharmacology; product development laboratory; well-known midwestern concern. (b) Research Serologist or Immunochemist, Ph.D.; prefer experienced in streptococci; primary interest rheumatic fever and allied diseases; research group affiliated well-known eastern medical school. (c) Pharmacology Instructor; prefer experienced in handling, measuring devices and electronic equipment as used in cardiovascular research; university medical school, affiliated hospital; East. (d) Biochemist; M.S. with good methodology training; work with highly qualified Ph.D. in active laboratory, large general hospital; Mideast. (e) Medical Bacteriologist; M.S. also qualified in biochemistry; experienced proteins, carbohydrates, enzymes; immunohematology department, well-known eastern pharmaceutical house; to \$4500. (f) Biochemist; supervise active clinical chemistry department, 300-bed general hospital; some research opportunity; lovely southern city. For further information write Woodward Medical Bureau, 185 North Wabash, Chicago.

POSITIONS OPEN

ELECTROENCEPHALOGRAPHY ELECTROENCEPHALOGRAPHY
Specialization opportunity in electroencephalography for psychiatrist or neurologist. General hospital, 1067 beds; research facilities, electrocortiography available. Faculty appointment, teaching. Affiliated Baylor University College of Medicine, Texas Medical Center. Dr. Lee D. Cady, Manager, VA Hospital, Houston, Texas. 3/16, 23, 30

Medical Writer. "Gray Flannel Suit" type, 25–35 years old with imagination, science background, and talent for concise, effective prose. Job entails contacting physicians; planning scientific convention displays; writing, directing medical movies. Salary dependent on experience and demonstrable ability. Eastern manufacturer. Liberal benefit program. Send complete résumé. Box 57, SCIENCE.

Part-time Assistantships. Teaching and research appointments in anatomy. \$1300-2000 for 9 months. Morphology, neurology, behavioral studies. Reproductive physiology, experimental and chemical embryology, histochemistry and cytochemistry. Write to the Department of Anatomy, University of Kansas, Lawrence, Kansas.

Patent Administrator. Pharmaceutical manufacturer requires M.S. in chemistry with minor in pharmacy or a biological science to assist head of patent section in general administration of patent program. Thorough acquaintance with chemical nomenclature and reactions, report writing, and analysis of data. Two or three years patent experience required. Excellent benefit program. Eastern manufacturer. Send complete résumé. Box 55, SCIENCE. 3/23, 30; 4/6

(a) Physiologist particularly interested gastroenterology or in another subdivision of physiology, qualified to conduct independent research; medical school faculty appointment; \$6000-\$9000. (b) Assistant Director, clinical testing division; one of country's oldest pharmaceutical companies; young physician preferred; \$15,000. (c) Biochemist qualified to supervise medicochemical laboratory, 600-bed hospital affiliated medical school; should be interested in development of tests and assay methods for investigation of enzyme systems and protein behavior; East; \$6000. (d) Bacteriologist qualified head department, 450-bed teaching hospital; medical center, East; minimum \$5500. \$3-3 Medical Bureau (Burneice Larson, Director), Palmolive Building, Chicago.

Scientist Junior—Organic (medicinal) chemist, M.S. or equivalent in natural products (alkaloids) to assist in evaluation of scientific data and other literature work. Eastern manufacture with liberal benefit program. Send complete personal data. Box 46, SCIENCE. 3/16

Virologist, Ph.D. Experienced in research with animal viruses, preferably those causing human diseases for research investigations in viral chemotherapy, although studies related to methodology, metabolism, immunology, and so forth, will constitute important segments of the research. Liberal benefit program. Eastern manufacturer. Send complete personal data. Box 56, SCIENCE.

The Market Place

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WANTED TO PURCHASE...

SCIENTIFIC PERIODICALS

Sets and runs, foreign and domestic. Entire libraries and smaller and BOOKS collections wanted.

WALTER J. JOHNSON, INC. 125 E. 23rd St., New York 10, N. Y.

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SCIENTIFIC JOURNALS WANTED

Sets, Runs and Volumes bought at top prices. Your wants supplied from our Back Files of over 3,000,000 periodicals. Abrahams Magazine Service; N. Y. 3, N. Y.

Your sets and files of scientific journals

are needed by our library and institutional customers. Please send us lists and description of periodical files you are willing to sell at high market prices. Write Dept. A3S, J. S. CANNER, Inc.

Boston 19, Massachusetts