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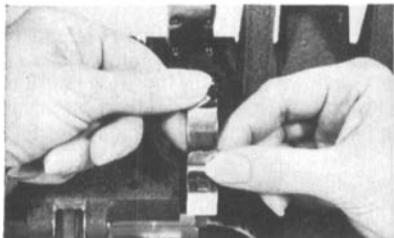
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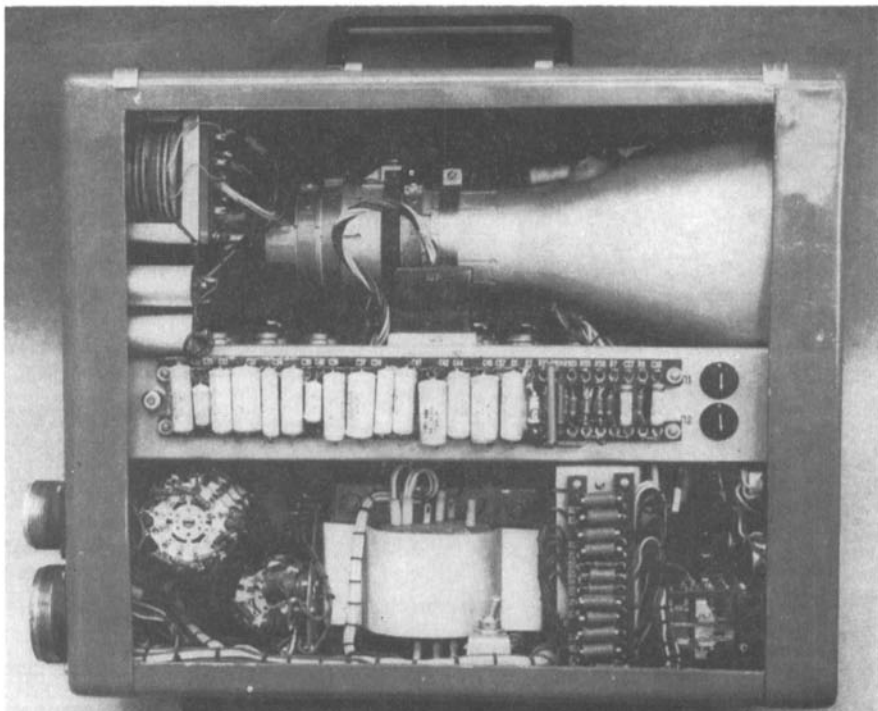
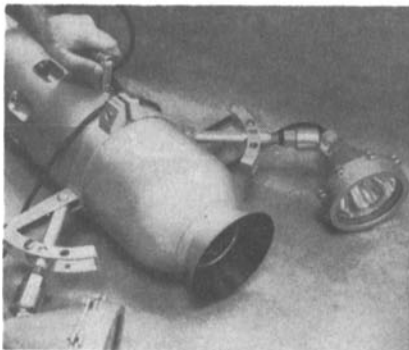
new products

(and developments)

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Further information about these items can be obtained direct from the addresses given. As in the case of technical papers, the Society is not responsible for manufacturers' statements, and publication of these items does not constitute endorsement of the products or services.

Underwater television equipment was among equipments shown at the recent U.S.S.R. Exposition of Science and Technology at the New York Coliseum. The image-orthicon camera chain illustrated is comprised of an image-orthicon camera, camera-control/monitor unit and a combination sync generator/sweep generator/power supply unit.

Long cable runs between camera and control and supply units are achieved by

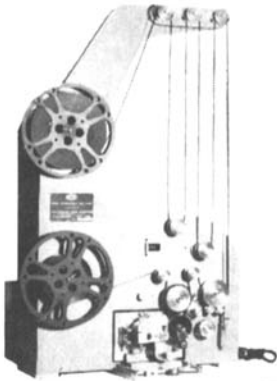


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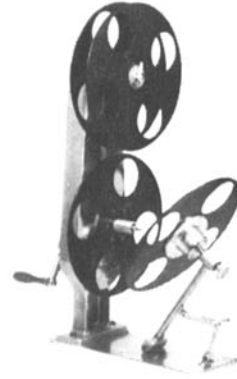
"A new 35mm Angenieux Zoom Kine Lens has been announced by James A. Sinclair & Co., 3 Whitehall, London, S.W.1. Dimension of the lens is 5½ by 2½ in. The aperture is f/3.5 and focal range from 35mm to 140mm. It is priced at £275."—This announcement was published on p. 77 of the January 1960 *Journal*, except that the price was erroneously given as 275 dollars rather than pounds. The *Journal* regrets the error.

using sinusoidal waveforms for both horizontal and vertical deflection. The resultant elimination of much of the usual pulse forming and timing circuits also permits much more compact packaging as evidenced by the dimensions of the terminal equipment relative to the 7-in. monitor tube.

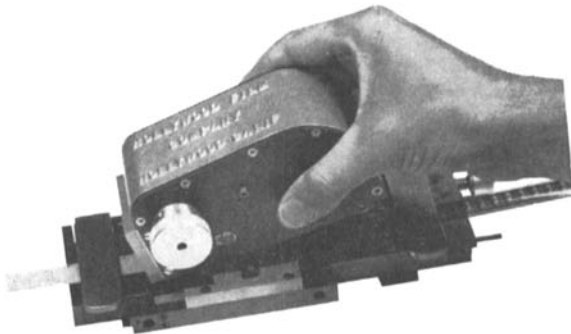
Surprisingly, one of the most unusual features of this equipment, aside from the use of sinusoidal sweeps, is the physical similarity to American equipment, as can be noted from the side view of the inside of the camera control and monitor unit.—Photos by Haig Armen Manogian, 130 Post Ave., New York 34.



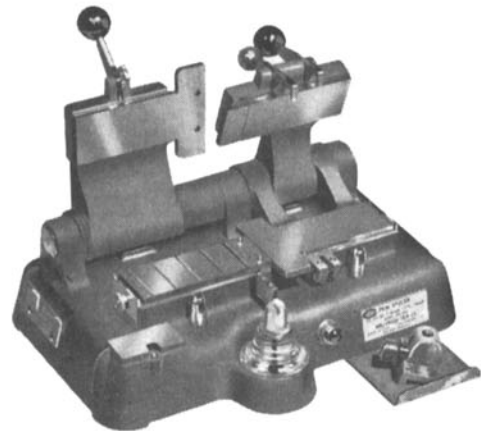
**EDGE
NUMBERING
MACHINES**



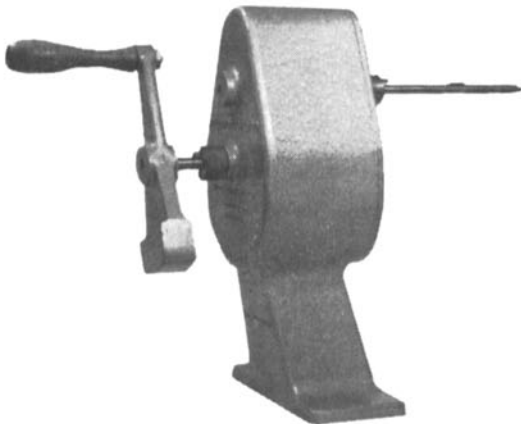
**NEGATIVE
BREAKDOWN
REWIND**



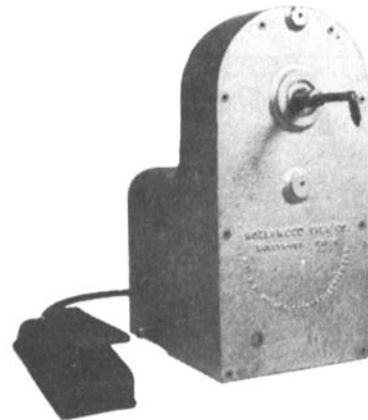
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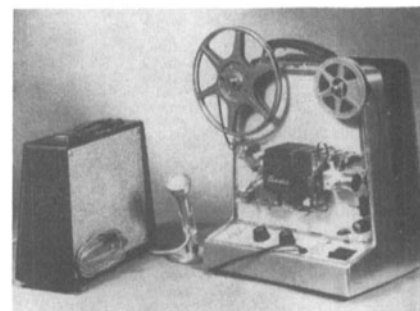
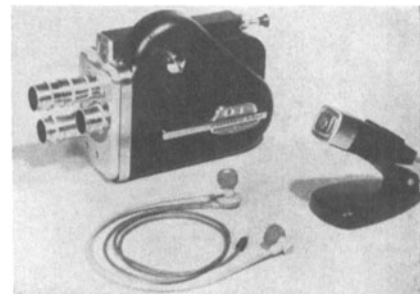
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The Zoomatic, an 8mm electric eye camera designed to zoom smoothly from long shots to close-ups and to shift instantly from normal speed to slow motion has been announced by Bell & Howell, 7100 McCormick Rd., Chicago 45. A fast lens (f/1.8), called Varamat, based on an 11-element, color corrected optical system, zooms from 9mm to 27mm. A 3-turret model, the 410, similar to the Zoomatic, also features smooth, rapid shifting from normal to slow speed. The 410 has a 10mm f/1.8 normal Anastigmat lens, 6.5 wide-angle and 25mm telephoto lenses. The Zoomatic is 5.7 in. high, 7 in. long and 2.34 in. wide and weighs 3 lb. The 410 is 5.7 in. high, 5.3 in. long and 2.34 in. wide. It weighs 2 lb 8 oz. The price for each model is \$199.95.



An 8mm camera with a self-contained sound system, called the Fairchild Cinephonic Eight, has been announced by Fairchild Camera and Instrument Corp., Robbins Lane, Syosset, L.I., N.Y., together with a companion projector and 25-mil magnetic stripe color film specially developed for this camera by Ansco. The camera is 7½ in. long, 3½ in. wide and 6½ in. high. It weighs about 4½ lb. The built-in amplifier is completely transistorized with printed circuit. It is priced at \$239.50. The projector has a built-in sound amplifier, recording and erase head; separately housed speaker unit and microphone. It weighs 24 lb with a film reel capacity of 400 ft. It is priced at \$249.50. The film is color reversal. The speed is equivalent to ASA-12 tungsten and ASA-10 Daylight (with 85-B filter). It is priced at \$7.50 for a 50-ft, double 8mm roll.

Professional cards available to members. 12 insertions, 2x1 in., \$60



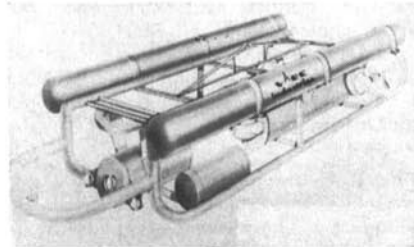
A line of camera parkas — heater covers to keep the camera warm and dry during weather instrumentation tests — has been introduced by Birns & Sawyer Cine Equipment Co., 6424 Santa Monica Blvd., Hollywood 38. Said to keep film pliable in temperatures as low as -60°F , a three-way control switch is used to adjust the heaters for low-, medium- or high-current draw, depending on weather conditions. Insulating materials are kapok and wool, aluminum foil, firm sheet lead, fiber glass and reverse-faced flannel with the flannel side toward the heater element to retain warmth. Canvas backing of the flannel is toward the camera to absorb wear. The outer layer is du Pont Fabrilite. The white outer layer and second layer of aluminum foil also reflect heat and sun when the units are used in hot desert areas. Prices range from \$120.00 to \$256.00.



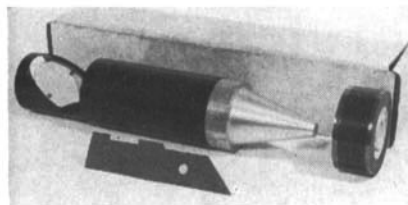
A vacuum-driven magnetic tape transport, first unit in the Honeywell 800 data-processing system to be shown, has been announced by the Datamatic Division, Minneapolis-Honeywell Regulator Co., 261 Madison Ave., New York. The all-vacuum drive (clutch) and the use of vacuum to hold the tape reel on its hub and the tape on the reel is designed to minimize wear and tear on the tape and thus greatly increase its life expectancy. The design is for a speed of 120 in./sec in either direction with a re-wind speed of 360 in./sec. Reported rate

of reading or recording is up to 96,000 decimal digits/sec.

The firm also announced a device called Orthotronic Control which automatically detects and corrects errors in electronic data processing. This device is described as "basically... a mathematical technique that permits the system to detect any errors and correct them instantly and automatically." Commercial production on the data-processing systems is expected to begin in October.



A mobile underwater vehicle system (M.U.V.) that can be equipped with a closed-circuit TV camera chain for underwater surveys has been developed by Vare Industries, 128 W. First Ave., Roselle, N. J., in cooperation with the Department of the Navy. Operation is remotely controlled from a console on the mother ship by means of a multiconductor cable. The vehicle is propelled and guided by means of three electric propulsion motors, gear-connected to propellers. The port and starboard units control the lateral motion fore and aft and also control the direction. This propulsion system permits the vehicle to hover at any desired depth in currents or tides of several knots. TV images, and information on depth, propeller speed, etc., are displayed at the console. Suggested applications include oceanographic studies, underwater inspection, location of lost objects, such as sunken ships, treasure hunts and sampling operations.



A projector alignment tool kit developed by the Motion Picture Research Council contains (1) a film path gauge to line up mechanically the fixed guide roller, the guide rails and the narrow-tooth intermittent sprocket; (2) an optical alignment tool to position the carbon arc and the mirror on the optical axis of the projection lens; (3) sufficient footage of 35mm all-purpose projector alignment film to make from two to three loops depending on the type of projector. This film is used in conjunction with the alignment tool to center the image on the film on the optical axis.

The film path gauge is a precision tool to align the fixed guide roller, the guide rails, and the teeth of the intermittent sprocket, and can be inserted in the aperture of any projector having narrow-toothed intermittent sprockets. The optical alignment tool is used to align the illumination

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system with the optical axis of the lens, and is used with the projector alignment film to allow the proper orientation of the projector with the center of the screen. A set of instructions is included with the tool kit. It is priced at \$32.50 and is available from the Motion Picture Research Council, Inc., 6660 Santa Monica Blvd., Hollywood 38.

The University of Michigan's English Language Institute has installed a closed-circuit television system adapted to the special requirements of training teachers to teach the English language in foreign countries. The system is based on the Giantview projector, manufactured by Giantview Television Network, Ferndale, Mich., which projects TV images on an 8 ft by 6 ft lenticular screen. The screen is supplied by Radiant Screen Co., Chicago. Lip and tongue movement of language students may be shown on the screen enlarged to 12 times life size. Cameras are supplied by RCA. The installation was planned and supervised by Prof. Garnet R. Garrison, Director of Broadcasting, and Frederick M. Remley, Jr., Technical Director of Radio and TV. This is the fourth closed-circuit system installed by the University of Michigan. It was financed by a grant from the Ford Foundation.

Mecca Film Laboratories, Inc., New York, has been sold to Byron Roudabush, President of Byron Motion Pictures, Inc., Washington, D. C., and has been renamed

Mecca Film Laboratory Corporation. Announcement was made by Harry Glickman, founder of the firm, who will continue with the new corporation in an advisory capacity. Mr. Roudabush is President and Treasurer of the new corporation. Vice-Presidents are Jack Haber, Samuel Breitenstein and Dudley Spruill.

Gordon Enterprises of North Hollywood has been appointed exclusive representative in the Western United States for Canadian Applied Research, Ltd., of Toronto, Canada. Products include the Mark VII aerial camera, and the Mark VIII, designed for automatic recording on continuously moving 35mm film, and the Mark III automatic Tri-Film processor and 70mm studio camera.

The Rubylite portable movie light is a product of Photomart, 228 S. Franklin St., Tampa, Fla. The device is designed to fit any camera and can be attached or removed without tools. It runs on a nickel cadmium rechargeable battery. Dimensions are 7 in. by 6½ in. by 3 in. Weight is about 5 lb. It covers a 10mm lens area. The color temperature is 3400 K. It is priced at \$169.50.

A magnetic recording tape, called Triton tape, is distributed in the United States by Brand Products, 39 W. 55 St., New York 19. Described as "splice-free," the tape is wound on "nonwarp, nonsqueal" reels and includes heavy-duty du Pont Mylar at both

ends for protection and to facilitate labeling. The tape is available in both acetate and du Pont Mylar polyester film in a wide range of reel sizes and types.

Following a decentralization policy, Ampex Corp. has formed five companies to handle various operations and conduct business within the United States. Foreign operations are conducted through Ampex International which controls a group of subsidiaries. The five recently formed domestic companies are Data Products; Professional Products; Military Products; Audio, Inc., which manufactures stereophonic systems and related consumer products; and Orr Industries, manufacturer of magnetic tapes. Orr was acquired by Ampex by a recent merger.

The Society of Plastics Engineers held its 16th Annual Technical Conference Jan. 12-15, in Chicago. The theme of the Conference was "Professional Achievements and Approaching Opportunities in the Growth of Plastics Engineering." More than 80 papers were presented in 23 sessions covering many aspects of plastics engineering. Among the session topics were Polymer Structure; Plastics in Buildings; Reinforced Plastics; Mold Design; Forming; Foams; Thermosetting Molding; New Materials; Radiation and Missiles, and Rheology.

A new 13-story office building located at 1725 K St. N. W., Washington, D.C., has been named the RCA Building. Owned by Paramount Building, Inc., the building has been partially leased for \$2½ million by Radio Corp. of America which will occupy half of the street floor and the second, third and fourth floors. Most of RCA's Washington, D.C., operations will be centralized in this building.

Announcement of a new TV tape center to be established in Los Angeles has been made by the Radio Corp. of America. The center will provide services ranging from engineering assistance to application planning and supplying components for the RCA TV tape recorder.

A brochure giving a complete description of the Perkin-Elmer lightweight aerial panoramic camera (*Jour.* p. 59, Jan. 1959) has been published by the Electro-Optical Division, Perkin-Elmer Corp., Norwalk, Conn. The 8-page brochure contains a number of illustrations and diagrams and describes the operation and specifications of the camera. The camera employs rapid scanning principles to obtain successive horizon-to-horizon photographs covering 180° across a plane's line of flight.

Preliminary steps toward a merger of Consolidated Electrodynamics Corp. and Bell & Howell Co. have been taken and the merger has been approved in principle by the directors of both companies. CEC, a supplier of aviation and missile test equipment, electronic instrumentation and control systems, magnetic tape equipment for instrumentation and data processing, and vacuum systems and controls. The

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company employs about 3000 people. Bell & Howell employs about 4000 people. If the merger goes through, directors of both companies have agreed in principle on a distribution of three additional Bell & Howell common shares for each four shares presently held, and CEC shareowners would receive one share of Bell & Howell common stock in exchange for each share of CEC.

Federal Manufacturing and Engineering Corp., 1055 Stewart Ave., Garden City, N.Y., has announced acquisition of two firms, Television Specialty Co., manufacturers of motion-picture and television

broadcasting equipment, and Cameraflex Corp., manufacturers of motion-picture cameras for missile tracking and instrumentation work. Federal's plan is to combine the two companies with its present enlarger and micro-film departments to form a photo products division. K. A. Jenkins, President of Television Specialty Co., will head the newly formed group. Plans included development of medical, military and industrial photographic equipment.

The Hallen Electronics Co., manufacturer of magnetic film recording equipment, has moved to larger quarters, at 652 S. Myers St., Los Angeles 23. The two-story

building covers 30,000 sq ft with electronic, mechanical and manufacturing operations occupying the second floor, and administrative, sales and accounting on the ground floor.

A new RCA plant for the manufacturing of industrial electronic products will be constructed in Pennsylvania in the Washington-Canonsburg area. Plans call for immediate construction of an administrative and engineering building covering 50,000 sq ft on a 50-acre site, with provision made for possible future expansion requiring a manufacturing center covering 130,000 sq ft.



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Film Writer-Director-Editor with broad administrative, advertising and public relations background. Fully capable of supervising industrial audio-visual department. Screen credits include all types of films from documentary to drama. Know cost control, sound recording, evaluation, equipment. Write Film Director, 4410 Walsh St., Chevy Chase 15, Maryland.

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Cameraman Trainee. Young Nigerian wishes to be trained as TV or motion-picture cameraman. Six years local training in Nigeria as projectionist-technician plus 2 yrs work and study in same field with C.M.A. Ltd., London. Practical experience in operation and maintenance of 16 & 35mm films and projectors. Serious student of film since age 15—now 24. Currently employed but anxious to train for a position where ability, sincere interest and creativeness offer opportunity. Will locate anywhere in U.S. Top industry and character references supplied in confidence. Sunny De Iseghohimen, Ministry of Research & Information, Film Production Unit, Ikoyi-Lagos, Nigeria.

Motion-Picture Technician. Just returned from 2 yrs work in Europe and Asia, including installation of motion-picture laboratory in Pakistan for Reevesound, Inc., and production management for Alfred Wagg Pictures. Formerly with Capital Film Laboratories, Washington, D.C., for several yrs; also designed and built production and lab equipment since 1945 under company name of Telex Films. Experienced to do capable work in

production, editing, sound and laboratory. Particularly interested in overseas positions, will consider any part of the world. Complete resume on request. Victor E. Patterson, c/o Frank Enge, Jr., 1025 Connecticut Ave., N.W., Washington, D.C.

Positions Available

Photographic Instrumentation. Los Angeles area firm manufacturing photographic instrumentation equipment needs a sales engineer. Engineering degree preferred. Position consists of selling, training field personnel, field service, and relating customers' requirements to the design of new products. Send resume to P.O. Box 22140, Los Angeles 22, Calif.

Laboratory Processing. Experienced or inexperienced processing man wanted by 16mm lab in Chicago area offering negative, positive, reversal and soundtrack developing. Write P.O. Box 401, West Chicago, Ill.

Motion-Picture Production. Organizers of new corporation in Managua, Nicaragua, require man well versed in professional motion-picture photography, with working knowledge sound recording, color, laboratory work, etc., to prepare budget of equipment necessary to start operating a motion-picture studio on an economical basis. Applicants should preferably be in a position to go to Managua to assist in the installation and operation of the studio, and in the selection and training of technical personnel. Send full information and salary requirements to: Conrad Morgan B., P.O. Box 1926, Managua, Nicaragua.

Cameraman. Prefer man with considerable experience on Mitchell Cameras. Midwest producer with fine reputation and financial standing wants man with ability and experience in lighting sets and operating camera on all kinds of interior and exterior photographic assignments. Very little travel involved in job. Excellent starting salary and opportunity. Write giving full details of past and present employment, equipment used, positions held, etc. Technisonic Studios, Inc., 1201 Brentwood Blvd., St. Louis 17, Mo.

Sales Engineer. Opportunity with West Coast office for sales engineer with manufacturer of theatre lighting and control equipment and architectural incandescent lighting. Work requires ability to call on architects, theatres, consulting electrical engineers, contractors. Location: in and around Los Angeles area. Please forward complete information, which will be kept in strict confidence, to: Century Lighting, Inc., 1840 Berkeley St., Santa Monica, Calif.

Photographer-Editor. Studio in Dallas, Texas, requires qualified motion-picture photographer and editor. Prefer college training. Please furnish

references along with resume and salary requirements to: Keitz & Herndon, 3601 Oak Grove, Dallas 4, Texas.

Photographic Equipment Engineer. Excellent opportunity for photo engineer with thorough experience in determining special equipment needs for large photo lab operations, and executing the design specifications thereof. Will act as the authority on systems modifications and additions. Should have knowledge of printing equipment, processing and sensitometry. Write W. F. Marquette, RCA Service Co., Mail Unit 114, Patrick Air Force Base, Florida.

Instrument Design Engineer. To assist with the design of high-speed motion-picture cameras and related products. Degree required in mechanical or electrical engineering with four yrs minimum design experience. A challenging position with a growing company. Write: T. H. Truesdell, D. B. Milliken Co., 131 N. Fifth Ave., Arcadia, Calif.

Television Engineer. GS-855-12, \$8810 per yr. To plan, design, coordinate, test and evaluate television equipment for military applications. Position will require about 50% traveling within and possibly outside continental limits of U.S. Applicants must have either 4-yr academic engineering training with bachelor's degree, or equivalent experience or combination of college training and experience; in the latter cases a written test will be required. *Also*, **Sound Recording Equipment Operator Foreman** for TV Division, \$4.09 per hr; **TV Video Equipment Operator Foreman** for Television Division, \$4.25 per hr. For all positions, Standard Form 57 (Application for Federal Employment), obtainable from the U.S. Civil Service Commission or any Post Office, should be completed and sent to: Civilian Personnel Office, Army Pictorial Center, 35-11 35th Ave., Long Island City 1, N.Y. RA 6-2000, Ext. 238.

Equipment Technicians. To maintain, service, repair all types of mechanical and electronic production equipment. Excellent salary and opportunity to advance with expanding organization. Write fully, all letters kept in strict confidence: Arthur Florman, Florman & Babb, Inc., 68 West 45 St., New York 36.

Equipment Salesmen. To call on industry, government, film producers. Must be willing to travel. Excellent salary and opportunity to advance with expanding organization. Write fully, all letters kept in strict confidence: Arthur Florman, Florman & Babb, Inc., 68 West 45 St., New York 36.