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- Measures uniformity of illumination and discoloration of projection screens for any distance or angle
- Maintains standard brightness and COLOR TEMPERATURE of printer lights

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KARL FREUND, President
837 North Cahuenga Blvd.
Hollywood, 38, Calif.



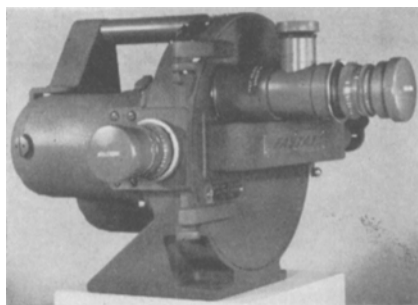
new products

(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.



The Macbeth-Ansco Electronic Densitometer, Model 12A, has been announced by the Macbeth Instrument Corp., P.O. Box 950, Newburgh, N.Y. Features of the new model include direct reading in linear density scale, 0 to 4.0 in color and black-and-white; electronic zeroing; separate zero adjustments for each color filter and a dynode feeding photomultiplier tube circuit for stability and sensitivity. It is priced at \$985.00 for the basic unit. A reflection head attachment is priced at \$195.00.



The Wollensak Optical Co., Rochester, N.Y., has announced three new products: a Fastax High-Speed motion-picture and oscillographic camera, a 16mm Motion-Picture Analysis Projector and a Fastair motion-picture Missile Camera (shown above).

The Fastax-WF-17 combination high-speed motion-picture and oscillographic

camera was designed to record both mechanical and electrical data on the same film, to be used especially where studies of short duration are required. It has speed ranges from 150 to 8000 pictures/sec and can be used for either picture or oscillographic recording independently. Its cost is from \$2250.

The 16mm Motion-Picture Analysis Projector was developed for the study and analysis of subjects filmed by high-speed motion-picture cameras. A special feature of the projector allows the film to be advanced frame by frame at the projector or remotely at the screen. Prices range from \$510 up depending on accessories required.

The missile camera is constructed to withstand extremely high "G" loads, severe vibration, impact and shock and will accept 50- and 100-ft daylight loading magazines. It incorporates the revolving prism principle. It is priced at \$1295.

Bell & Howell, 7100 McCormick Rd., Chicago 45, has introduced a 2-time telephoto attachment for Bell & Howell 20mm lenses which fits the 16mm electric-eye motion-picture camera and the Sunomatic lenses on the 200 series, without affecting the automatic exposure features of these cameras. It complements the wide-angle attachment introduced late in 1956. By doubling the focal length of the camera lens, the attachment in effect brings the subject closer to the camera. It is available from Bell & Howell dealers at a suggested retail price of \$89.95. A matching 40mm viewfinder objective is available at \$10.50.

Sylvania Electric Products Inc., 1740 Broadway, New York 19, introduced a new model of its RF (Radio Frequency) lamp for color motion-picture printers at the SMPTE 81st Convention Exhibits. The new lamp is reported to have a life expectancy of 500 hours as compared to 100 hours for the original RF model. Although the new lamp has not been changed externally from the original lamp introduced in January 1956, the improvements include a change in the diameter of the refractory disc, from $\frac{1}{8}$ in. to $\frac{1}{4}$ in., thereby bringing it into accordance with the international standard light source, and a change in the operating temperature from 3100 K to 3500 K. The earlier developments were described at the Society's Convention at Lake Placid in Oct. 1955 and in the *Journal* in Dec. 1955.

The Magnetic Sound Striping Co., 1472 Broadway, New York 36, has been appointed by the Minnesota Mining and Mfg. Co. as striping laboratory for amateur and professional motion-picture film. Company officials have announced that magnetic sound striping can be added within 48 hours of receipt of unstriped film.

An experimental silicon power transistor, capable of providing an output of 5 w at 10 mc either as an oscillator or an amplifier, has been developed at Bell Telephone Laboratories under the sponsorship of the Joint Services. Unilateral gain is in excess of 20 db, and a collector efficiency of better than 40% has been achieved.

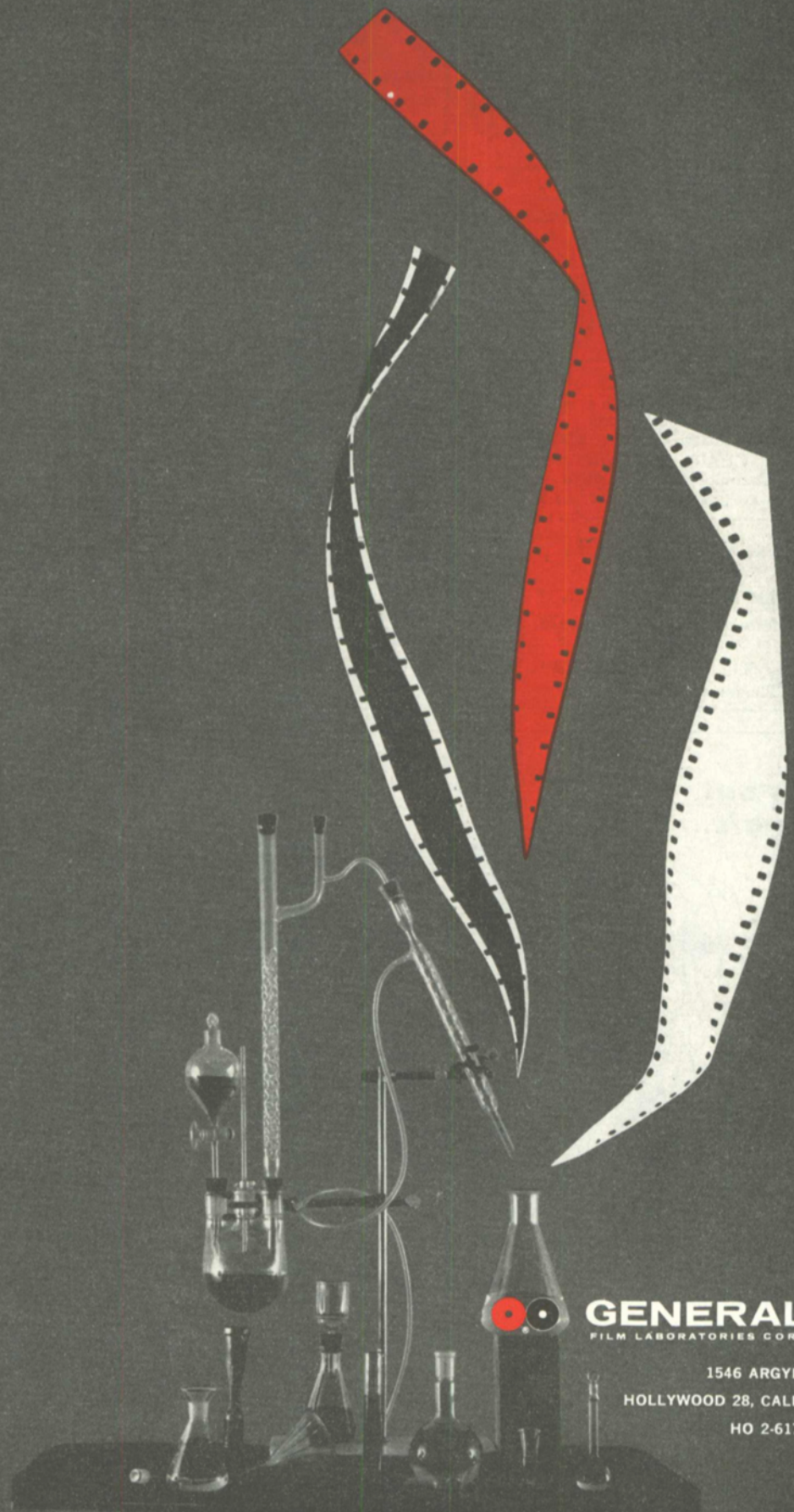
THE MAGIC OF FILM

In 1835 the British mathematician and scientist, William Henry Fox Talbot, discovered a way of chemically dissolving the unexposed silver chloride in a photograph, leaving the silver image behind. Talbot's ability to fix the image, to make it permanent, represented a milestone in the history of photography.

The accomplishments of men like Talbot and the other pioneers provided the foundation on which motion picture photography was built.

Today these early achievements seem trivial, dwarfed by the wizardry of modern chemistry.

Amid their weird looking glassware and strange smelling potions, the contemporary sorcerers of the laboratory continue to add new miracles to the **MAGIC OF FILM.**



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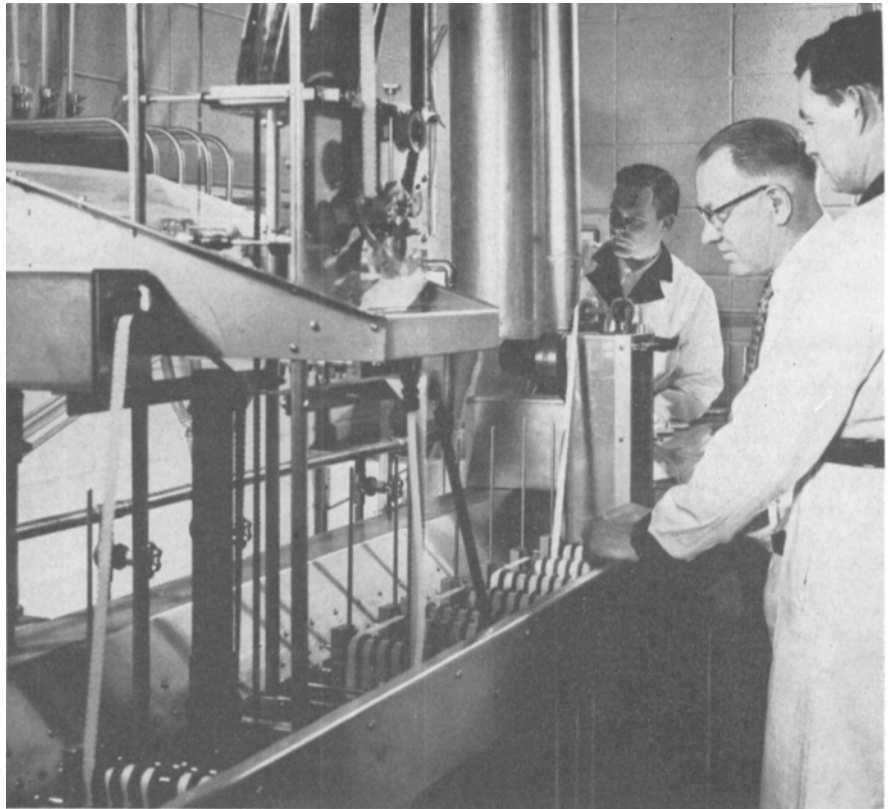
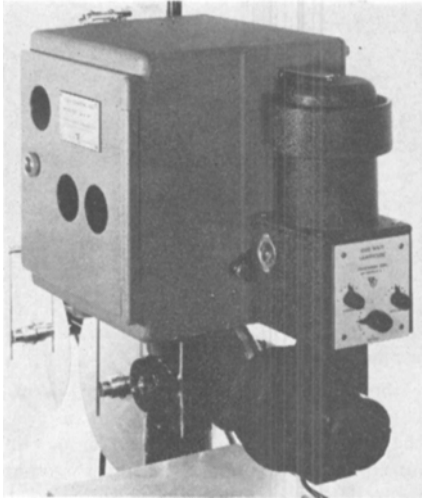
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The Perkin-Elmer Corp., Norwalk, Conn., has issued a 12-page brochure describing its optical tracking instruments and systems. Specifications are given for such systems as the Recording Optical Tracking Instruments for long-range photography of missiles in flight; Telescopic Photographic Recorder, a mobile photographic recording system and the Kth 55 Cine-Theodolite, for tracking missiles and airborne objects at short and intermediate ranges.



The Fish-Schurman Corp., 70 Portman Rd., New Rochelle, N.Y., has announced its Hi-Speed Additive Color Compensating Head for continuous printing at 200 ft/min. It was originally designed to operate with the Bell & Howell Model E and is now available to fit D and J heads. Designed with a single 1000-w light source, adjustable in complete darkness in all directions by knob setting and three electromechanically operated light valves, this machine is said to provide color changes in 5 msec. Each light valve is controlled by five small solenoids to provide 32 printer steps. The light valve opening may be adjusted for color stock changes without altering the 32-step arrangement.

Light efficiency is obtained by using six interference multilayer, all-dielectric beam splitters and by eliminating absorbing trimming filters. Separation of the color bands is accomplished without overlap and with little light loss. The machine is priced at \$8,500 F.O.B. New Rochelle, N.Y.

A 5-channel punched-tape reader, with memory system, reading in succession red, green, blue, blank, is also available for actuating the three light valves and priced at \$3,200. A punch coder with counter for programming 5-channel tape reader is priced at \$2,400.

The Harwald Co., 1216 Chicago Ave., Evanston, Ill., has taken over the manufacture and distribution of the Movie-Mite 16mm sound projector from The Calvin Co., Kansas City, Mo. The Movie-Mite was recently re-engineered and now includes such features as a curved film gate, single lamp for both sound and picture, and automatic safety trips which stop the machine automatically if a loop is lost. The projector weighs 28 lb and is suitable for classroom use as well as for industrial applications. It is priced at \$298.50.

The Geo. W. Colburn Laboratory, Inc., 164 N. Wacker Dr., Chicago 6, announces completion of the installation of a new color processing machine, built by the

E.D.L. Company of Gary, Ind., to process both internegative and release prints in the amount of over 40,000 ft a day.

The Colburn Laboratory also announces

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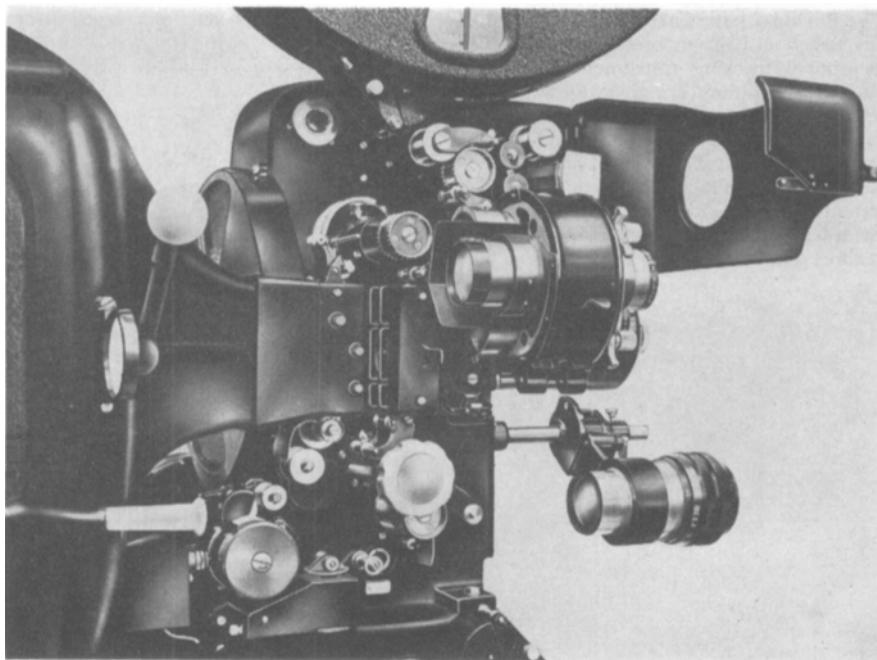
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a new method of printing 16mm color prints in quantity without risk of damage to the original film. The printer, designed by the company's president, Geo. W. Colburn, prints the internegative from A & B originals, incorporating fades, dissolves and the invisible splice editing techniques. The printer also is capable of adjusting color balance for individual scenes. The new method is reported to produce prints of notably better quality than are obtained from the color-reversal method.

Magnasync Mfg. Co., Ltd., 5546 Satsuma Ave., N. Hollywood 2, has announced the appointment of Kine Engineers, 17 New Queen's Rd., Bombay, India, as exclusive agent for the sale of Magnasync products in India. The West Coast company manufactures magnetic film recording equipment.

R. C. Merchant & Co., 18411 W. Nicholas, Detroit, has been appointed sales representative for Reeves Soundcraft Corp. in the State of Michigan. The company will handle the complete Soundcraft product line of magnetic tapes and other items.

The Compco Corp., 2251 W. St. Paul St., Chicago, has announced the appointment of Motion Picture Enterprises, Inc., Tarrytown, N.Y., as its exclusive East Coast Sales Representative for the film reels and cans manufactured by the Chicago company.



The Fedi XII T Projector, which was briefly announced in the New Products columns of the April 1957 *Journal*, is a redesigned version of the Fedi XII S Projector (p. 530 of the Sept. 1956 *Journal*), manufactured by Ing. Angiolo Fedi S.A., 6 Via S. Gregorio, Milan, Italy. In making this revision, the three principal design objectives were: to permit operation with 100-125-amp high-intensity arc lamps

without overheating the film; to permit change of projection ratio without stopping the projector and without changing the aperture plate; and to permit switching projection lenses and re-establishing focus without stopping the machine.

With an arc lamp producing the 30,000 lm necessary to illuminate a 150-sq m screen, the film is subjected to a temperature of 600 C. In the Fedi XII T, cooling is achieved by water circulation, and heat-absorbing filters which are mounted on a two-bladed shutter; the rotation of this shutter (1400 rpm) cools the filters. It is claimed that the 600 C temperature can be reduced to 350 C by this means.

The turret lens holder takes three lenses of different focal length for 1.37:1 standard, 1.66:1 VistaVision, or 2.55:1 CinemaScope ratios. Each lens can be focused independently by means of a micrometric device and a rotation of 120° is sufficient to bring into the optical axis a projection lens with prechosen focal length, fully pre-focused. This can be done while the machine is running. The adjustable aperture plate is composed of four light-cutting edges positioned close to the film plane, adjustable both vertically and horizontally.

Expansion of Photo Research Corp. 837 N. Cahuenga Blvd., Los Angeles 38, has been announced by the firm's President, Karl Freund. The firm, which now specializes in the production of electronically operated ultra-precision instruments for measurement of illumination intensity and color temperature, is enlarging its research facilities for electronic instruments in the television field. Dr. Freund has also announced that N. H. Bensussen will be Vice-President in charge of production; Frank F. Crandell, Vice-President in charge of research; and Romauld Anthony, General Manager. In making the announcement, Dr. Freund, who is a veteran motion-picture and TV photography director and an inventor of light measurement instruments, predicted rapid growth in television and related image-transmission areas of electronics.

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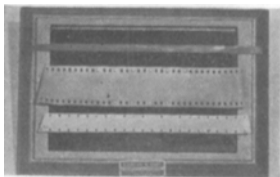


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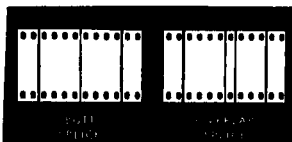
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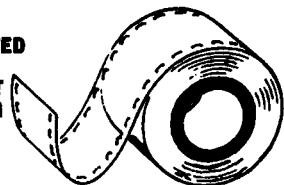


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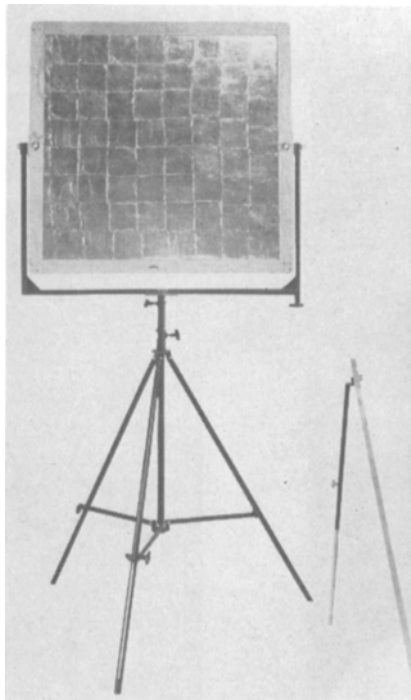
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The Moleflector is a product of the Mole-Richardson Co., 937 N. Sycamore Ave., Hollywood 38. Constructed of exterior plywood in a pine frame, it has a 43 sq in. silver reflector, bright on one side and diffused on the other. It is 4 ft square, 1 in. thick and weighs 18 lb. The 28-lb. steel-tubing pedestal has a low of 60 in. and a high of 96 in. The distance from pedestal top to reflector center is 29 in. and the extension leg measures 18 in. Other new items are described on a catalog sheet now available from the company.

The Jerrold Electronics Corp., 23d and Chestnut Sts., Philadelphia 3, has announced a high-speed, electronically operated coaxial switch that reportedly transforms an ordinary oscilloscope into an instrument that takes accurate quantitative measurements. It provides the simultaneous display of two channels or voltages. It is used in conjunction with a standard sweep generator and oscilloscope display. The unit uses two Clare "Mercury-Wetted" switch elements mounted in a coaxial circuit. The switching unit has a maximum current rating of 5 amp at 500 v and can be supplied for either 50 or 75 ohms with a V.S.W.R. of less than 1.08 from 0 to 250 mc. The switching functions are controllable by circuitry at a 30-, 15- or 10-cps rate, locked with the 60-cycle line. A phase reverse switch and a phasing control are provided for adjusting the phase in respect to the line. The switch is priced at \$200.

The Minnesota Mining and Manufacturing Co. 78,000 sq ft magnetic recording tape plant at Hutchinson, Minn., which was opened in May, is reported to be the largest in the world. The plant produces magnetic tape for video recording, computers, instrumentation and guided missile work, geophysical exploration and automation as well as for professional and home recording. All of the manufacturing processes leading to the finished tape take place within the plant except for the preparation of the magnetic oxide which is produced in a plant maintained by the firm at Hastings, Minn. The company's headquarters is at St. Paul, Minn., and it also maintains magnetic tape plants in England and France.



These notices are published for the service of the membership and the field. They are inserted three months, at no charge to the member. The Society's address cannot be used for replies.

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Recording Engineer. Eight years experience in all phases of motion-picture sound recording including operation (as recordist and mixer), research, design and development work, transmission, maintenance and installation. Former assistant to chief recording engineer of major east coast studio. Will relocate. Box 26, Oakland Gardens Station, Flushing, N. Y.

Producer-Director-Cinematographer. Comprehensive background in all phases of motion-picture production: creative, technical and artistic. More than 13 years in motion-picture, live-television and radio production. Independent producer 6 years. Experience also includes writing, editing, acting and narration. Very fluent Spanish including technical terms. Desires posi-