

# new products

(and developments)

.....  
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.

## MGM Camera 65

A system of photography using 65mm wide film has been developed by Metro-Goldwyn-Mayer Studio. The original photography is done on 65mm film, 5 sprocket holes per frame. Anamorphism is used in shooting the camera film, with a 1.33 to 1 squeeze ratio, resulting in a picture which has an angle of field with aspect ratio of exactly 3 to 1.

Release prints may be made by any of three methods:

(1) 65mm prints are made by direct contact from the negative, to be projected with a deanamorphosing projection lens, at a ratio of 1.33 to 1. It is expected that separate 6-track magnetic-striped film will be used for the sound for such prints. This method would be used for road-showing only.

(2) 70mm prints are made by contact printing from the 65mm negative which also requires a deanamorphosing projection lens at a ratio of 1.33 to 1 in order to un-squeeze the image. As in the case of the 65mm prints, there are six magnetic-striped tracks 100 mils wide.

(3) 35mm release prints are made by optical reduction from the 65mm negative, with 1.5 additional anamorphosis making a total anamorphism in the release print of 2 to 1 which is identical with that of CinemaScope. In developing this method, MGM aimed at a resultant CinemaScope-type print of superior quality. This type of print is to have sound in four magnetic stripes on CinemaScope-perforated 35mm film.

By means of an internegative CinemaScope-type prints are made from the original 65mm negative by direct reduction printing with added anamorphosis, through an internegative. The same end may be achieved by use of Technicolor dye-transfer process employing intermediate matrices.

*Raintree County* is the only picture thus far reported as made by this process, and the method used for release printing is not now known.

**Calnatron**, a method of electronic film recording designed for speed and economy, has been announced by California National Productions, Inc., 663 Fifth Ave., New York 22. The company is a subsidiary of

National Broadcasting Co. The recording originates in a television studio where a master control board corrects the lighting. It is then transmitted to a receiver where it is photographed on special motion-picture film. One of the features of the system reported is the laboratory technique which effects speed and economy in film processing. Some of the suggested applications are for political speeches, executives' instruction to various branches of their organizations and for filming stage productions.

A group of five new static-magnetic regulators for stabilizing voltage supply to 6.3-v electron tube filaments is available from Sola Electric Co., 4633 W. 16 St., Chicago 50. The transformers are designed for simple mounting as product components, and take the place of conventional, unregulated filament transformers.

Further information is contained in Bulletin CVF-269 available upon request from the company.

The Model CG 12 Current Governor is a two-terminal current stabilizer, modulator and electronic load, a new product of North Hills Electric Co., 402 Sagamore Ave., Mineola, N.Y. It is transistorized and features front panel control for selection of current levels in 50-ma steps from  $\frac{1}{2}$  to 30 amps. The stabilized current may be modulated 0-100% by external signals including sine wave, complex waveforms and d-c. Further information may be obtained by requesting Bulletin E 12 from the company. The company also offers a line of standard variable inductors and coil form assemblies designed especially for printed circuit application.

## Scratches on Film

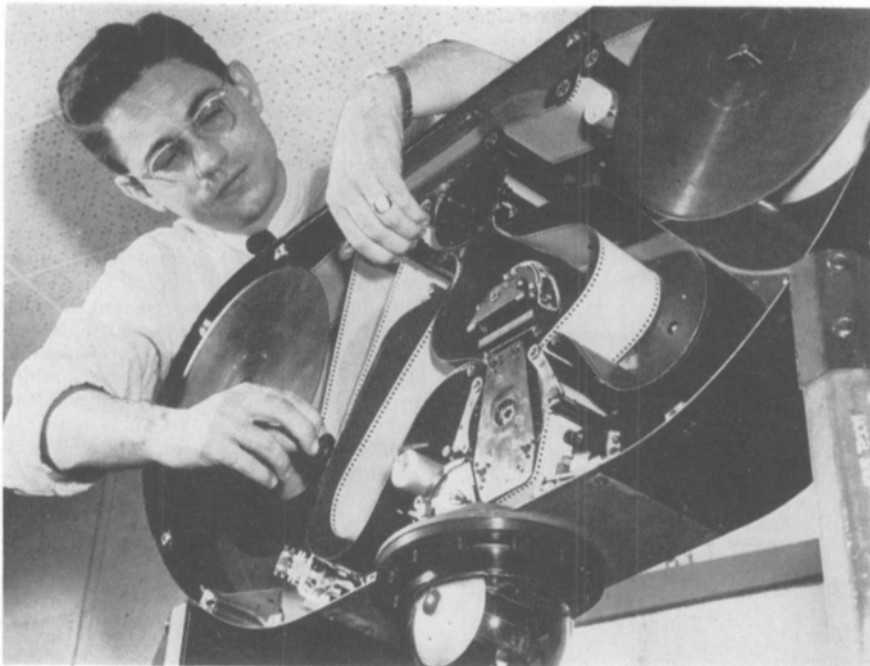
### Irritate Audiences

Scratches are havens for dirt, and refract light improperly. On the screen, they mar the picture and may distract attention. If on the sound track, they produce offensive crackling.

Fortunately, scratches can almost always be removed — without loss of light, density, color quality, sound quality, or sharpness.

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A versatile panoramic camera for wide-angle aerial photography has been developed by the Perkin-Elmer Corp., Norwalk, Conn. Called the Model 501 Lightweight Tracking Camera, it is a scaled-down version of the 1500-lb Transverse Panoramic Camera designed for the Air Force. Weighing less than 53 lb fully

loaded, it is 18 in. high, 3 ft long and slightly over 70mm in width. Operating on 28 v d-c power it contains built-in image motion compensator, intervalometer, an automatic exposure control and a wide range of scan rates and intervals.

The 501 also features high resolution of 40 lines/mm on high-speed film; auto-

matic data recording; protection against stray light and humidity, and other safety features. The camera operates on a scanning principle and provides successive 180° panoramic photographs through the use of a rotating glass prism. There is no shutter, and exposures are made while moving the film over a slit in the camera. A few suggested applications are: military operations, geological survey work, aircraft altitude and velocity studies, and soil conservation studies.



A group of panel devices which produce images electronically on flat panels has been developed by Sylvania Electric Products Inc., 1740 Broadway, New York 19. Known as Sylvatron, the process combines lighting and electronics. It is expected to have important applications in the fields of radar, air traffic control, instrumentation and other fields related to national defense or industry. The process is not, at the present time, applicable to consumer products.

The panels are electroluminescent glass or metal squares controlled by a photo-conducting element which enables them not only to produce light, but also to produce images. Three basic types have been developed: (1) an electroluminescent panel on which the position of a mobile dot of light can be manipulated electrically; (2) a display panel which reproduces optically the track of a mobile spot of light (the image thus created can be held or "stored" indefinitely in visible form on the panel.); (3) an electroluminescent panel which can produce optically a motion picture with good resolution and rapid response. Further information, including a complete technical description, is available upon request from the company.

An automatic exposure control system that can be adapted for use with many still, aerial and motion-picture cameras has been announced by J. A. Maurer, Inc., 37-01 31st St., Long Island City, N.Y. Originally designed for use with the Maurer P-220 Aerial Reconnaissance Camera, the new system comprises a sensor,

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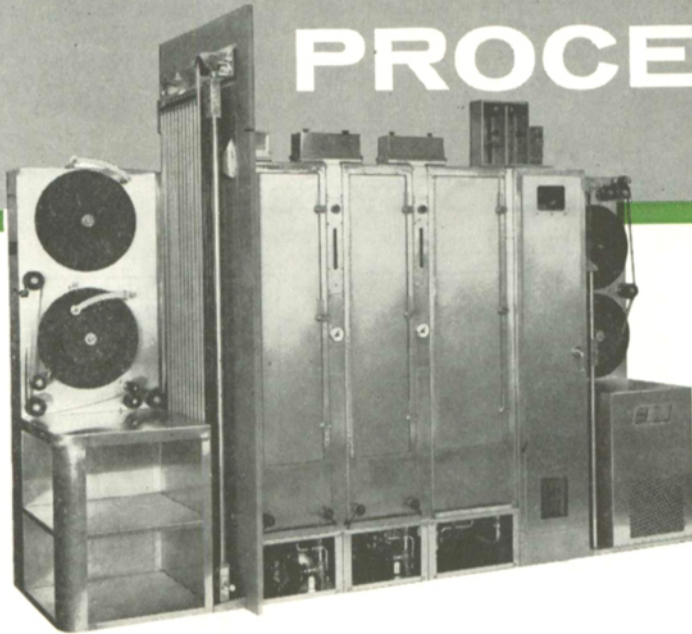
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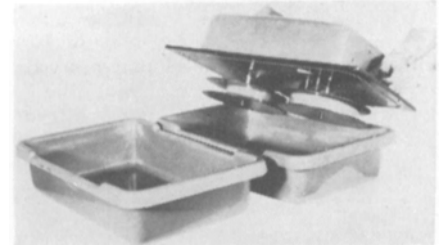
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a computer and a diaphragm drive motor. The sensor unit features a photo-conductive cell with a 45° angle of acceptance, contained in a housing that may be fastened to the camera body. The computer contains a 5-transistor circuit stabilized for voltage and temperature. The computer receives a signal from the sensor and amplifies it to control the diaphragm drive motor which is coupled to the lens diaphragm. The system provides three operating ranges, each spanning three adjacent *f*/stops. Power requirements are 1½ amp. at 24 v d-c.

Environmental specifications comply with MIL-C-6662a from -65 to 160 F. Dimensions are: sensor unit, 2½ in. long by

¾ in. diameter; computer, 3⅜ by 2⅝ by 2¼ in.; diaphragm control motor, 1½ by 1⅞ by ⅞ in.

A new line of molded phenolic film rollers for 16mm and 35mm commercial film processing machines has been announced by J. A. Maurer, Inc., 37-01 31st St., Long Island City, N.Y. The rollers, designed to meet most Air Force environmental tests, feature sleeves and retaining rings of linen-base bakelite and glass ball-bearings encased in nylon bearing cages. The rollers are said to be unaffected by, and to have no deleterious effects on, processing solutions or films.



A developing tank with a capacity of 400 ft of 16mm or 35mm negative and positive film is announced by the Micro Record Corp., 487 South Ave., Beacon, N.Y. The new model D-31 is similar to the company's

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200-ft motor-driven tank. The tank can be operated in daylight after the film is loaded into the tank in a darkroom and covered with a light trap. The developing proceeds automatically until after the final washing when the operator removes the film from the tank and places it on the drying rack. Separate tanks are provided for each solution and a hose that can be secured to a water faucet is used for the final washing. Standard equipment includes the driving mechanism, light trap, one pair of 16mm or 35mm. reels, a length of hose with faucet adapter, three solution tanks and a wash tank. The developer is priced at \$435 for 110-v a-c operation or \$455 for 220-v.



The Scherr Micro Projector features a vertical principle of design which offers certain advantages such as a horizontal stage onto which flat-work can be placed without the use of holding devices; an inclined screen; and a choice of fixed standard magnifications that are changed by slipping different projection lenses into a vertical socket in which they rest by gravity. Custom-made precision coated lenses and achromatic condenser lenses are employed for different objectives 10 to 100 X magnification. The projector is priced at \$395.00. An illustrated folder with a description of the projector and various accessories is available from George Scherr Co., 200 Lafayette St., New York 12.

Temperatures approaching the heat of the sun have been produced by the use of motion-picture equipment, according to a recent announcement by National Carbon Co., a Division of Union Carbide Corp. Two elliptical mirrors of the standard type used in motion-picture projection equipment are used. One mirror directs the energy of a carbon arc at the other, which in turn concentrates the radiation on the specimen being heated, forming a life-size image of the actual arc. Temperatures over 7000 F have been reached by this method.

Permafilm, Inc., New York 36, has announced the appointment of Sonocolor, S.A., of Paris, France, manufacturers of magnetic striping machinery and magnetic sound tape as its processor and agent for

France and its colonies. Sonocolor has purchased Permafilm treatment equipment and will also package the product for the French trade.

Scotch Brand Magnetic Tape No. 131 is a product of the Minnesota Mining and Mfg. Co., 900 Bush St., St. Paul 6, Minn. Developed for professional use, it is reported to reduce print level by 8 db and to increase high-frequency response. It is packaged in a gray box marked "for professional use" and is identified by a gold "Low-Print" seal on the cover.

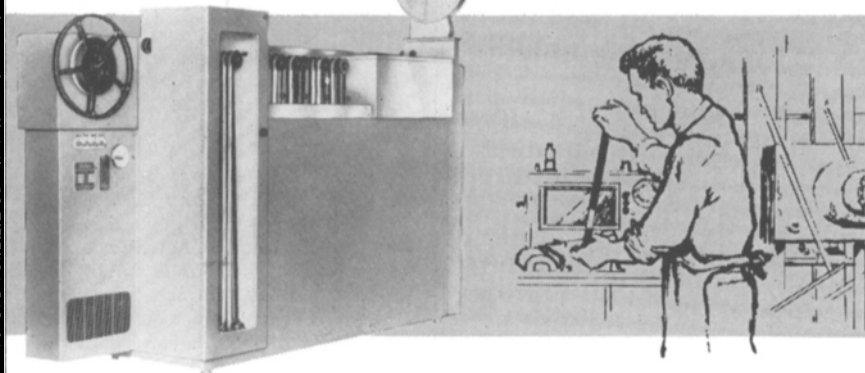
Gordon Enterprises, 5362 N. Cahuenga Blvd, North Hollywood, a rental agency specializing in motion-picture cameras and

equipment, has added undersea cameras to its rental services. Among the undersea cameras that can be rented by the day, week or month is the Bathygraf 35mm camera developed by Capt. Jacques Yves Cousteau, producer of the motion picture, *The Silent World*. The firm also stocks the Bell & Howell Eyemo with Underwater Blimp.

A new Kodak Cine Ektar 50mm f/1.9 lens for the Kodak High Speed Camera is designed for middle-range, width-of-field coverage between the Kodak Cine Ektar 25mm lens (wide-angle) and the narrow-field 63mm lens. The new lens is available from Kodak Industrial and Audio-Visual Dealers.

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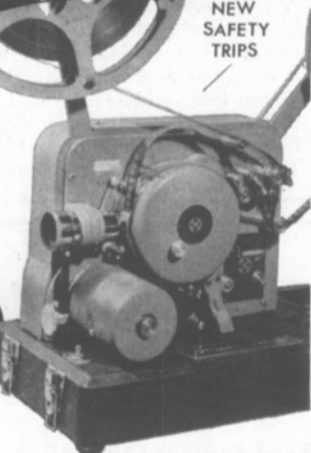
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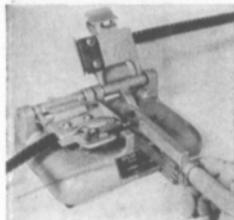
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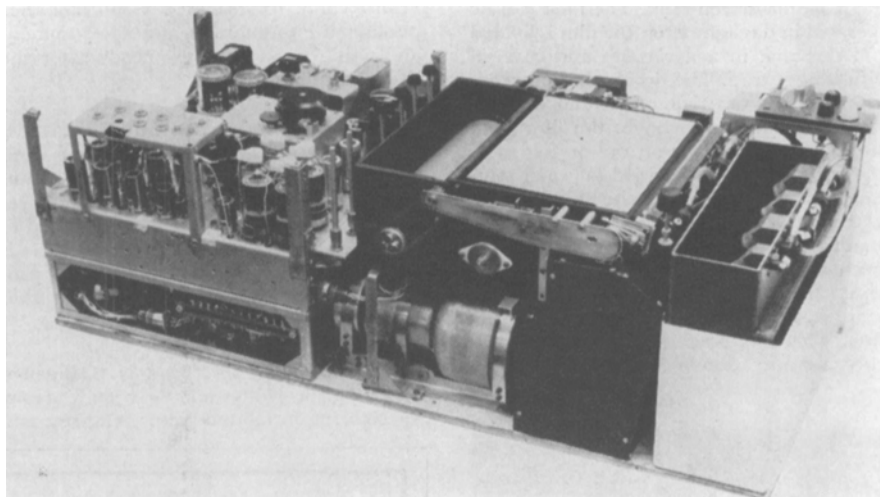


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A radar strip recorder which photographs the ground beneath the airplane is a product of Hycon Mfg. Co., 1030 Arroyo Parkway, Pasadena, Calif. The recorder, designed for use with an airborne radar system, is also adaptable for ground use as a recorder of radar or telemeter information relayed from flying radar sets. It operates by making a photographic record of radar information on a slowly moving strip of film. The film, 9½ in. wide, is passed over a viewing screen so that the observer looks at a transparency 9 by 12 in. The film is slowly wound from one spool to another, making possible a permanent film record of the flight path of the airplane.

Beckman & Whitley, Inc., San Carlos, Calif., has divided its operations into two independent parts: Missile Products Div. and Instrument Div. Newly appointed manager of the Missile Products Div. is E. William Place, formerly product manager for missile devices. John C. Beckman, co-founder of the firm, is general manager of the Instrument Div. Activities of the Instrument Div. include research, development, manufacture and marketing of highly specialized meteorological equipment and high-speed research cameras.

Technicolor processing for 8mm and 16mm Kodachrome motion-picture film is now available to amateur photographers through its New York facilities as well as from its Hollywood laboratories. Services available from the New York plant include processing and duplicating 8mm and 16mm color motion-picture film; processing Anscochrome, Ektachrome and Kodachrome film; prints on an acetate-type base, Type "C" prints and dye transfer prints.

A Technical Counsel Service, headed by Paul Christman, has been announced by Byron, Inc., 1226 Wisconsin Ave., N.W., Washington 7, D.C. The new service will undertake to answer, in the field, questions arising in 16mm film production. Before accepting his present post, Mr. Christman was with the Ansco Division of General Aniline and Film Corp., and prior to his present appointment was Ansco's Eastern Regional Manager for Motion Picture Products.

General Films, Inc., P.O. Box 601, Princeton, N.J., a company that specializes in the production of 16mm films for churches, museums and schools, has expanded its activities to include the production of films on industrial and commercial subjects. The films, produced in professional 16mm color or black-and-white are planned especially for companies with medium-sized advertising budgets. The announcement was made by the company's president, Richard L. Hilliard. The company distributes films on a rental basis to cultural institutions and commercial organizations. Among its artistic productions are a 38-minute film of the medieval morality play, *Everyman*, and a 9-minute educational film, *Fall*.

Columbia Broadcasting System has announced plans for the construction of new laboratory facilities at Stamford, Conn. The one-story building will cover 33,000 sq. ft. and will provide research and development facilities for a scientific and administrative staff of 150 persons. Cost estimates are over \$1 million. Construction of the new laboratory is a part of a program of expansion of research and development activities. Emphasis on research is in three areas: intensified search for new and improved audio and video techniques; broader development of electronics projects under government contract for military and other purposes; and more comprehensive applied research for industry.

The Oscar Fisher Co., Inc., has announced the removal of its manufacturing and office facilities from Peekskill, N.Y., to 5th Ave. and South Plank Rd., Md 27, Newburgh, N.Y. The firm has constructed a one-story steel and concrete building to house expanded engineering, manufacturing and office facilities. New production equipment has been installed.

A glossary of 99 high fidelity and tape-recording terms has been prepared by Minnesota Mining and Mfg. Co., 900 Bush St., St. Paul 6, Minn. The glossary is intended primarily for amateur and church and school users, but may be helpful to professional users. It is available from the company upon request.

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**The Bolex Adapter Ring** for connecting 16mm extension tubes to all 8mm motion-picture cameras with standard ASA "D" mounts is distributed by Paillard, Inc., 100 Sixth Ave., New York 13. The tubes and adapters are sold as a boxed set at \$14.00. The set consists of the special adapter No. 4, which mounts the 16mm tubes to any 8mm camera with a standard "D" mount; a No. I 16mm extension tube and a No. II 16mm extension tube, plus the standard 16mm-to-8mm adapter for connecting the 8mm lenses to the 16mm tubes.

## Journals Available

These notices are published as a service to expedite disposal and acquisition of out-of-print Journals. Please write direct to the persons and addresses listed.

Issues beginning in 1953 available on a nominal basis. Write: Mitchell M. Badler, 1711 Davidson Ave., Bronx 53, N.Y.

Recent issues available. Write: F. H. Cole, 144 Via Trieste, Newport Beach, Calif.

Jan. 1930 through Dec. 1937; Journal SMPE issues; and Jan. 1930 through Dec. 1935, bound volumes of SMPE Journal; SMPE Transactions: Apr. 1919:8, May 1920:10; May 1922:13; Oct. 1922:15; May 1925:21; Oct. 1925:24; Apr. 1927:30; Sept. 1927:32; Apr. 1928:33; Sept.

1928:36; SMPE Membership Listings: 1928, 1930, 1938; SMPE Index and Authors: 1930-1935; SMPE Miscellaneous: ASA Z22-1930; Dim Stab of M.P. Films 1934; ASA Z22-1935; High Intensity Lamps-1935; Program Spring Convention Apr. 26, 1939. Write John Faber, 5 Edgewater Drive, Denville, N. J. Phone Rockaway 9-2623M.

Complete set of Journals from May 1937 to June 1954, including special volumes and membership directories, excellent condition; also Mar., May 1934 and July 1935 issues. Write: Harry R. Lubcke, 2443 Creston Way, Hollywood 28, Calif. HO 9-3266.

Jan.-Dec. 1950; Jan., Feb., Apr.-Dec. 1951; Jan.-Mar. 1952. Also available are vols. 6 and 7 of the The Television Society (British) covering the period Jan. 1950 through Sept. 1955. Write: Andrew N. McClellan, 65 Hillside Drive, Toronto 6, Ont., Canada.

July-Dec. 1952, Jan.-Nov. 1953, Jan.-Apr., June-July, Sept.-Dec. 1954, Jan.-Mar. 1955. Write: Omar Marcus, 1925 Cadiz St., New Orleans 15, La.

Dec. 1946, Feb.-Dec. 1947, 1948-1955 complete. All copies in perfect condition; for sale as entire lot only. Write: Joseph W. MacDonald, 2414 Sullivant Ave., Columbus 4, Ohio.



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.

## Positions Wanted

**Film Writer-Editor**, with directorial experience, now engaged in post-graduate work at City College Institute of Film Techniques. Three years experience in direction of off-Broadway theater. Has written scripts for NBC-TV and industrial films. Experienced with all 16mm cameras and editing equipment. Formerly with Screen Gems, Inc. Willing to relocate. Write: Lawrence G. Cohen, 55 Nagle Ave., New York 40.

**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 position with production company or in motion-picture department of large industrial corporation. Interested in the United States, Central or South America. Résumé available in English or Spanish. Write: Oliver E. Cain, P.O. Box 1594, Amarillo, Texas.

**Studio Technician**. Young man (27), Recent graduate of TV Workshop, finished in top three of class; thoroughly qualified audio engineer, TV cameraman, floor manager, video operator, dolly and boom operator, etc., with knowledge of scenery, special effects, lighting, color TV principles and operations. Seeking job in TV production. Willing to relocate anywhere (Timbuktu if necessary); will accept modest salary to start. Arthur K. Hirshman, 2242 Bragg St., Brooklyn 29, N.Y. Tel: Nightingale 6-3997.

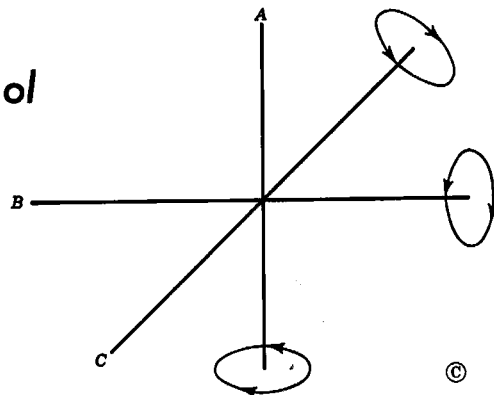
**Motion-Picture Development Engineering**. Thoroughly familiar with design, construction and installation of motion-picture film processors and allied laboratory equipment. Scope of 12 yr of laboratory experience ranges from maintenance to plant engineering. Also additional mechanical and refrigeration background. Resumé on request. Apartment 7-B, 283 Avenue C, New York 9. Tel: ORegon 4-8165.

**Research or Sales**. College graduate with degree in photography and background in engineering desires position in research or sales. Contact George Daugherty, 7413 Heather Row Lane, Houston, Texas.

**Stereoscopy**. Seeking opportunity for research and development work in phases of motion-pictures and television leading to an accurate reproduction of the illusion of life such as stereoscopic sight (unaided), binaural sound, smell, etc. Have done independent research for 10 yr and prepared book on integrated high-speed stereo. Robert B. Collender, 58 Van Reipen Ave., Jersey City, N. J.

**Audio-Visual Supervisor**. Master's degree in education, specializing in production of audio-visual materials. AB in English. Experience in educational television production, planning and production of industrial films. Former audio-visual supervisor for guided missile manufac-

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