

middle of the Exhibit. Based on local reaction, its use by other Sections is recommended.

This was the final meeting of the year. Members felt that Chairman William E. Youngs and those who worked with him had done a superb job of arranging good meetings.

On December 9, the past, present and incoming members of the Board of Managers and guests met for dinner at the Lafayette Hotel and then joined other guests at the Academia of the Motion Picture Association of America for a showing of *Lover Come Back*, a comedy starring Doris Day and Rock Hudson. Thanks to the generous cooperation of Kenneth Clark and Robert Crisp of MPA, and Alex Schimmel of Universal Pictures Co., Inc., the audience was given a night to remember.

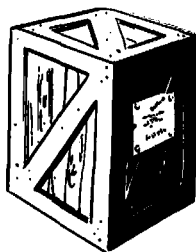
In a few remarks to the audience, Chairman Youngs said both he and the SMPE were born at the same time and both have one thing in common—they have each been helped to grow by the generous and sincere help of many, many people. Continuing, he said the SMPTE will soon be fifty years old, and that it had been suggested that there would not be a more appropriate place to celebrate it than the city of its birth, Washington, D.C. Incoming Section Chairman Arthur L. Foster of the Motion Picture Service, Department of Agriculture, spoke a word of appreciation to the outgoing chairman.—David E. Strom, *Secretary-Treasurer*, 1002 By-Pass Rd., Williamsburg, Va.

The Washington Section met on January 10 at the National Academy of Sciences. Prior to the meeting guest speakers Ray B. Dame, Chief, Motion Picture Branch, Bureau of Public Roads, and Ed Winkler, Technical Representative, Eastman Kodak Co., joined the members of the Board of Managers for dinner.

Mr. Dame presented the film *Winter Driving* produced by his bureau and the National Safety Council. The 16mm color sound film depicted a series of tests conducted on automotive equipment at a special winter test area in Wisconsin. Statistical representations were made of the relative effectiveness of reinforced chain, snow tires and normal tires. Appropriately, this was the coldest night of the winter, a factor which probably accounted for the meager attendance of 26 members.

Mr. Winkler presented his company's film, *Color Collage*, produced primarily for advertising agency art directors and media personnel. The 16mm color sound print refreshingly utilized high key effects between mobile and static photography. This plus the lively commentary pointed up a most unusual and interesting presentation.

Following the screenings, Chairman Foster introduced the incoming officers and managers. Howland Pike, National Membership Chairman, made a plea for renewed effort in obtaining qualified people as members. Sections Vice President Garland C. Misener congratulated the Section on its attempts to provide diversified papers in accordance with the Society's aim.—Arthur Rescher, *Secretary-Treasurer*, c/o Capital Film Laboratories, Inc., 1905 Fairview Ave., N.E., Washington, D.C.



## 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 Sun Gun Professional is a new 1000-w photographic flood lighting unit recently introduced by Sylvania Electric Products, Inc., 1740 Broadway, New York 19. By using a 1000-w, high-silica halogen lamp in a reflector housing that measures 6 in. wide, 4½ in. deep and 4 in. high, the unit is said to be capable of producing the same watts of exposure as a 5000-w flood light with the same beam angle. Its weight is 3 lb. The lamp used in the Sun Gun Professional is described as producing 30,000 rated lumens as a bare lamp. In its reflector, it produces 65,000 center-

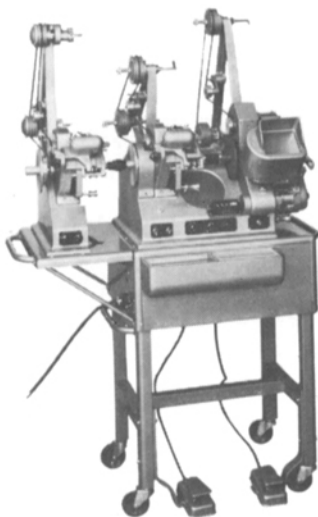
beam candlepower with a color temperature of 3400 degrees Kelvin. A dimming switch allows the unit to be used at less than half brightness either for lower light level or for use in focusing before actual picture taking. At the dimmed half voltage, the lamp produces 23,000 center-beam candlepower and could last for approximately 300 hr. At full voltage, the lamp is rated at 12 hr.

The light beam is 36 degrees wide and 30 degrees high. Through the use of the diffusion lens supplied with the unit the light may be spread to 110 degrees wide and 48 degrees high. The unit has an adjustable head which tilts 90 degrees upwards for bounce light or 30 degrees downwards. It can be used with any conventional household or office outlet. The price is \$79.00. Accessories are available.

The Sun Gun Professional was extensively described in Sylvania advertising in the November 1961 *Journal*. It will be on display at the 91st SMPTE Convention Equipment Exhibit at the Ambassador Hotel, Los Angeles, April 30-May 3, in Booths 232 and 233.

Sylvania has also recently announced a new three-in-one flashbulb, the M-3, suitable for most photographic situations in which the M-5, M-25 or FP-26 flashbulbs would be used. It will also be available as a blue bulb, known as the M-3B, for use in color photography. Sylvania also has a new 550-w superflood light for home motion-picture photography, priced at \$3.00.

### ADD A SOUND HEAD to your MOVIOLA for multiple sound track editing

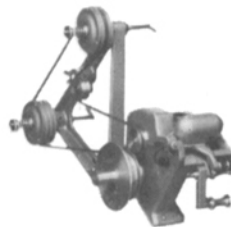


Model UD-20-S shown with cabinet extension and extra sound head.



Model CE-20 Cabinet extension bracket with mixing controls and coupling attachments complete.

\$77.50



Model SD-20 (35mm) shown Model SL-20 (16mm) similar

Each equipped to play optical and magnetic sound track.

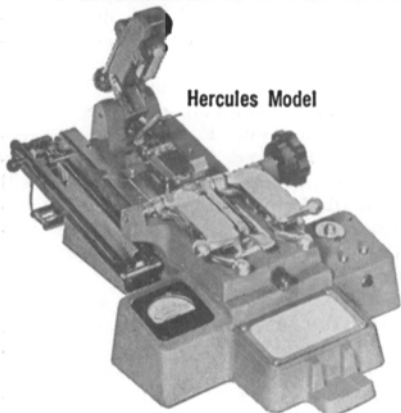
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1. Provisions for separate magnetic volume control over each sound head.
2. Plug-in attachments to amplifier.
3. Strong, easy to install from furnished instructions.

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# NEW INTERMIX PRESTO-SPLICER HANDLES EVERY JOB



Hercules Model

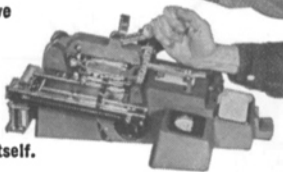
Newly modified Presto-Splicer butt-welds motion picture film, microfilm, acetate, mylar, Polyester, safety-base, paper . . . or any other kind of tape or film . . . AND INTERMIXES ANY OF THESE MATERIALS making a failure-proof, invisible weld that is literally the strongest part of the tape. Every splice you make will be a cleaner splice . . . a stronger splice . . . a PERMANENT splice, with

## PRESTO-SPLICER

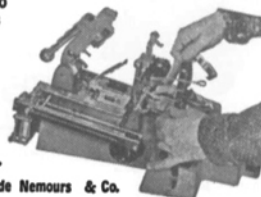
Slide handle toward you as far as it will go. This brings the special Mylar<sup>®</sup> tape with thermal setting adhesive into position.



Splice in the usual manner. Heat sets the adhesive but does not disarrange the molecular structure of the tape. The bond is permanent, stronger than the film itself.



Use the trimmer to remove the surplus tape. The entire procedure is so simple, so positive, that no special training is needed for your existing personnel.



\*T.M. E. I. duPont de Nemours & Co.

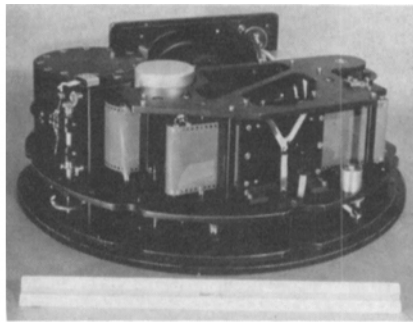
Write for New Brochure PS-2691, fully describes all models for every splicing problem.



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MANUFACTURING CORP.**  
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Long Island City 1, N. Y.

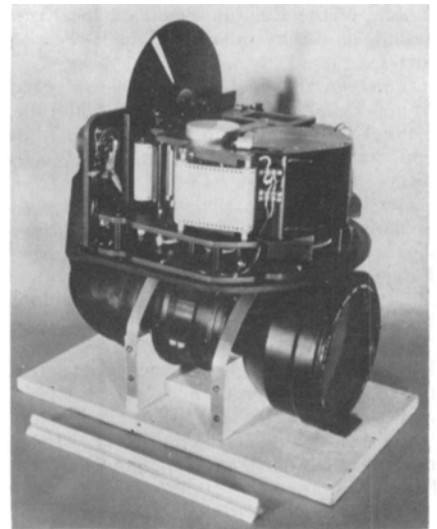
Cables: Prestoseal, New York

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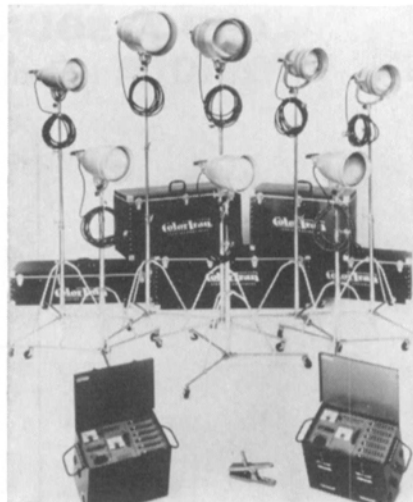
A lightweight 70mm camera for operation at extreme altitudes has been designed in two versions by Flight Research Inc., P.O. Box 1-F, Richmond 1, Va. Model 206A is fitted with a special high-acuity 12-in. focal length  $f/3.8$  lens supplied by Pacific Optical Co., Inglewood, Calif. Camera and lens together weigh 35 lb. Model 206B uses a 24-in.  $f/4$  lens. Its optical path is turned  $180^\circ$  by means of mirrors to reduce overall length and conserve space. The combined weight of the camera and lens is 57 lb. Each camera has a capacity of 125 ft of 70mm aerial film and takes full-frame pictures ( $2\frac{1}{2}$  by  $2\frac{1}{2}$  in.) at a rate of 40 frames/sec. The film transport mechanism is similar to the roller pulldown used in the Model V-A 70mm Multidata Tracking Camera.

The lightness in weight was achieved by the extensive use of magnesium and specially constructed glass-fiber cases. Environmental tests simulated missile launch and re-entry conditions. Conditions in-

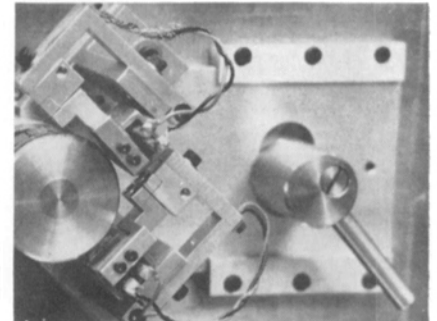


cluded high and low temperature, altitude, vibration, acceleration, shock, acoustic noise and water immersion, as well as testing for radio interference and explosion hazards. After the film is exposed it enters an armored magazine which is automatically sealed and pressurized at the end of the run. The magazine is designed to protect the film against an impact shock of 6000 G's and subsequent immersion in salt water.

Prototypes of both cameras have been delivered to the Aeronautical Systems Center, Wright-Patterson Air Force Base, Ohio.



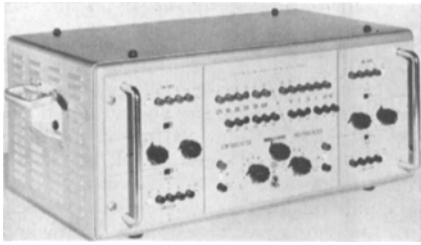
An industrial motion-picture kit, called "Studio-in-a-suitcase" has been announced by ColorTran Industries, 630 S. Flower St., Burbank, Calif. Among equipments contained in the kit are eight lights and two Cinemaster Mark II Converters to supply power that will give the equivalent of 80,000 w of photographic light over an area of 60 linear feet, 40 ft high. A safety-grounded three-wire system is used in conjunction with pushbutton remote operation. The entire kit consists of five cases of basic lighting equipment, stands and converters. It weighs 300 lb in all and is priced at \$1222. The price does not include the lamps.



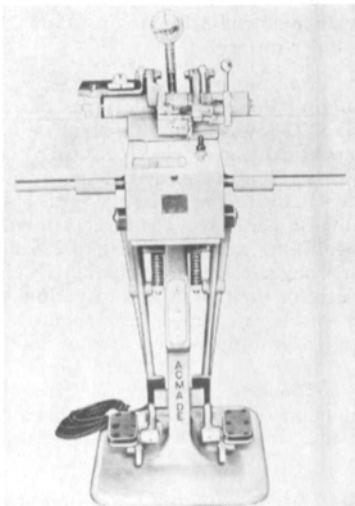
An 8mm Dual Magnetic Soundhead Printer Assembly based on the orbital magnetic soundhead mounting principle, thus permitting functionally independent alignment adjustments, has been announced by D'Arcy Magnetic Products, Ogden Dunes, Gary, Ind. The assembly's magnetic heads are of Alfenol Alloy. A recording capability of 50 to 20,000 cycles has been demonstrated in tests. Also available are models suitable for 8mm sound projectors and cameras. Prices for the various models begin at \$250.

A magnetic conversion unit for 16mm optical sound projectors for recording or playing back magnetic soundtracks has been announced by Gregory Magnetic Industries, Inc., 1167 N.E. 24 St., Fort Lauderdale, Fla. Available in two models, each custom built for the designated projector model, the record and playback unit consists of head and mount assembly and

separate recording amplifier and playback equalizer. It is priced at \$185. The playback-only unit, consisting of head and mount assembly and equalizer, is priced at \$99.50. This unit has no record or erase facilities, thus making accidental erasure impossible. Each unit plays both optical and magnetic soundtracks, separately or mixed.



An audio equalizer introduced by Gotham Audio Corp., 2 W. 46 St., New York 36, is designed, without any inductively tuned circuits, to provide high- and low-frequency boost and droop, sharp cutoff and mid-frequency and bandpass and band-reject functions with slopes as high as 24 db per octave while maintaining distortion levels below 0.7% total rms at levels of +18 dbm out. Constructed as a building block assembly of RC circuits, the unit has 50 pushbuttons and 11 selector switches for re-creation of settings at any time. Accuracy is said to be  $\pm 1$  db between units. The equalizer, designated the EQ-1000, has internal amplifier circuits to permit a bridging input impedance while producing either no loss or a 5 db gain. Full specifications are given in Bulletin 6-a available upon request to the company.



The Acmade Foot-Operated Hot Splicer has cutter blades made from stainless-steel with tungsten carbide inserts. A heater unit is installed in the top body of the machine. The top light in a well glass fitting is attached to the body of the machine and also there is an inspection light in the waste bin together with cement bottle and brush. The combined 16mm/35mm model is priced at \$1495.00, distributed by Florman & Babb, Inc., 68 West 45 St., New York 36.

A non-degenerate, parametric microwave amplifier with an overall system noise temperature of 60 K at 6 kmc — a noise

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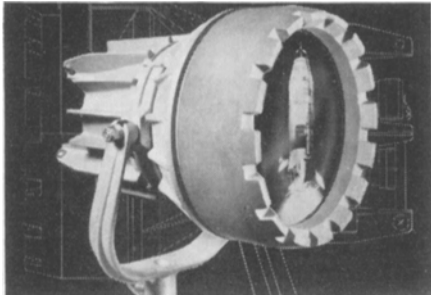
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are designed for surveillance and photo-recording illumination in hazardous atmospheres. This compact, lightweight, explosion-proof source, constructed to MIL Specs will produce 5,000 watts of illumination at only one-fourth the current consumption of conventional equipment. When equipped with the new ColorTran Heat Filter 85% of the infrared is absorbed with negligible loss of intensity.

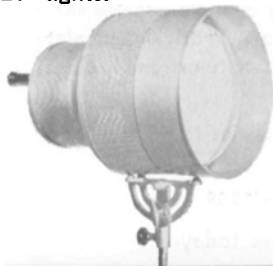
Complete control systems can be supplied to illuminate any required area size. Such systems are already in use on many major military projects. For further data, request Engineering Spec. # S4-016.



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The equivalent of 10,000 watts (10K) of studio Flood light. Weighs 7½ lbs. using a R-80 — 1500 watt lamp. The Super-Eighty consumes only 13.7 amps from 220V when used with a ColorTran Converter. Produces 940 ft. candles of even light — 7 ft. in diameter, 10 ft. from subject Color temperature is 3400 K... most powerful flood light available. Ideal when used with ColorTran CINE KING "KEY" lights.



Order Code: LSE \$56.00 w/o lamp

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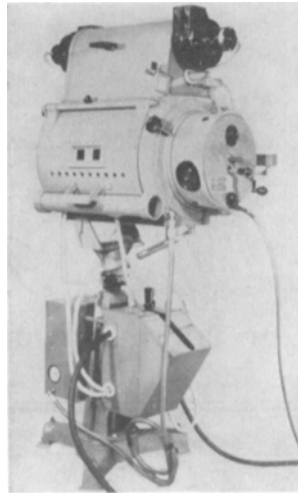
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SMPTE CONVENTION  
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figure of about 0.9 db — has been developed in Bell Telephone Laboratories, 463 West St., New York 14. It is being modified to serve as a reserve amplifier in the receiving antenna at Andover, Maine, which will be used in the Bell System's experiment for communications by active satellite. The amplifier is also applicable to short-distance microwave relay systems. The special qualities of the new amplifier depend in large part on a newly designed tuning cavity and an improved semiconductor diode. The diode, of gallium arsenide, is hermetically sealed. New techniques in fabrication have made it possible to reduce the temperature coefficient of the diode's junction impedance, this contributing to the simplification of the entire amplifier circuit.



A 400-amp high-intensity carbon arc lamp has been developed by Genarco, Inc., 97-04 Sutphin Blvd., Jamaica 35, N.Y., for use as a source of a radiation for a Solar Radiation Simulator designed for the National Aeronautics and Space Administration in Cleveland, Ohio. Other than the solar radiation simulation field, applications are expected to include arc image furnaces and projection. The lamp, designated Model ME6 is now in production and may be supplied in a lamphouse mounted on a stand with a knife switch. Controls operate with 16mm positive rotating carbons and 1⅞-in. negatives.

A new line of high-transmission Soliger C-mount lenses for 16mm motion-picture and 1-in. vidicon TV cameras has been announced by Allied Impex Corp., 300 Park Avenue South, New York 10. The f/1.4 lenses are of various sizes within a price range of \$79.50 to \$149.50. Also in the series is a 150mm f/4.5 lens priced at \$99.50.

A Field Strength Meter, Model SM-1, a product of Smith Electronics, Inc., 8200 Snowville Rd., Cleveland 41, Ohio, is a portable, self-contained, gain-stabilized radio receiver of metered output which reads in both voltage and decibels. It tunes continuously over a vhf range from 52 to 220 mc and a uhf range from 450 to 900 mc. It does not contain a calibrating source but can be readily calibrated by an

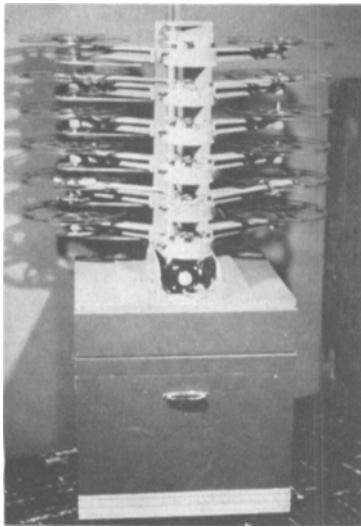
external signal generator. A small tunnel diode calibrating oscillator can be made available. By switch control it will measure visual peak, aural rms or battery condition. The attenuator range, including the meter scale, is 120 db. As a tuned r-f voltmeter with 50-ohm input, the voltage sensitivity range is reported at 10 mv to 1 v and this range is said to be exceeded at most frequencies. The meter is housed in a carrying case measuring 9 by 12 by 9 in. and weighing 17 lb.

A transistorized a-c voltage regulator featuring remote-sensing and automatically resetting thermal devices for overload protection has been announced by Perkin Electronics Corp., 345 Kansas St., El Segundo, Calif. The remote-sense feature is used to regulate voltage at a location where precise voltage is required, such as lighting arrays. Designated the Model MTLR1000, applications suggested by the manufacturer include studio lighting and darkroom chemical temperature control.

Imitation blood, a new product announced by Mole-Richardson Co., 937 N. Sycamore Ave., Hollywood 38, is available in two types, one for black-and-white and the other for color photography. The skillfully mixed substance has a characteristic dripping action that has an uncanny resemblance to the dripping of real blood that has reached the coagulating stage. Made of water-soluble vegetable cellulose compounds, both bloods can be washed from materials without leaving stains. Other products recently announced by the firm include Peel Paste and Floor Paste for applying wall and floor coverings. Materials thus attached are said to be easily and quickly removed without any damage to the under-surface.

Resolving Power Test Patterns based on MIL STD 150 A for testing and evaluating photooptical and electrooptical equipments, systems and processes are available from Itek Laboratories, Dept. 1-120, Lexington 73, Mass. The targets provide a series of lines ranging from 1 to 228 lines/mm. They are supplied on film as either negative or positive images at various contrast levels in film sizes ranging from single- or multiple-frame 35mm to 9 by 18 or 11 by 14 in. The Laboratories have also announced capability for design and production of micro-images on film, glass or metal.

Solid state switching equipment for closed-circuit TV and similar applications is produced by Nassau Laboratories, 29 Haven Ave., Port Washington, L.I., N.Y. The basic component is a plastic-encased 1½ by 1½ by 1⅞-in. switch module. The unit has input and output terminals as well as control points. A few of its characteristics are described as more than 40 db signal rejection for video frequencies, more than 20,000-ohm input impedance, 100-mc bandwidth, less than 3% tilt at 30 cycles, less than 5 mw required for operation, and ability to accommodate up to 4-v peak-to-peak signals. A 5-channel bridging switcher complete with power supply is priced at less than \$95.



A multiple dubbing machine for 8mm film has been announced by Cine Magnetics, Inc., 202 E. 44 St., New York 17, which recently acquired the magnetic striping services of Frederick F. Watson, Inc. The dubber is reported to record simultaneously, in synchronization, six 8mm prints. The firm has announced that it is equipped for all services relating to 16mm and 8mm magnetic sound striping, sound recording, film editing and distribution.

A miniature timing device that uses a vibrating tuning fork instead of an oscillating balance wheel has been announced by Bulova Watch Co., Bulova Park, Flushing 70, N.Y. Called the Accutron Timer, Model TE-10 Series, the device was originally developed for use as a wrist timepiece and has been adapted for industrial use. An intervalometer, TE-11 is based on the Accutron mechanism, the announcement stated. The intervalometer is designed to make or break electrical contacts at intervals of time varying from one second to 24 hours. Combination intervals of seconds, minutes and hours are possible and the duration of the switching function can be varied over rather wide ranges.

A third device, also based on this mechanism, is under development. This device is a timer for intervals varying from one month to five years. This timer measures  $1\frac{1}{8}$  by  $1\frac{1}{8}$  by 2 in. and weight 3.5 oz. It is being designed to perform a number of preset switching functions.

A new type of coaxial cable and a companion connector have been announced by Prodelin, Inc., Kearny, N.J. The broadband, flexible, air-dielectric coaxial cables and the connectors (inventions of Lewis A. Bondon, President of the firm) are combined to form a matched transmission line system applicable to most electronic communications services. Designed to be easily cut, dressed and assembled, the cable, known as Spir-O-line, employs high-density, polyethylene dielectric tubes, longitudinally compressed and profiled into a radially symmetrical supporting structure. This design is used to provide a uniform dielectric having continuous tangential contact with the conductors, without spiraling. This uniform straight-lay tubular

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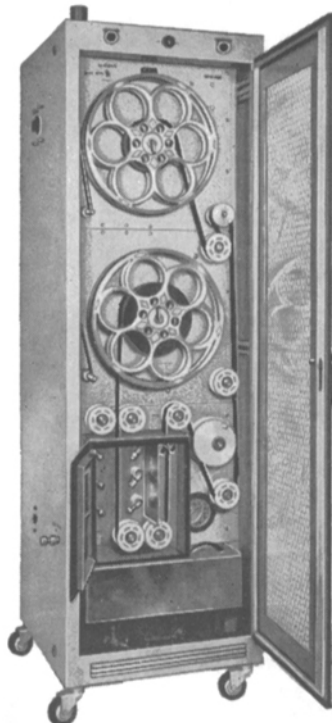
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You cannot damage film with this highly advanced TEL-Amatic JET-SPRAY film cleaning machine. Extensive laboratory tests using films with the softest emulsions have proven excellent results. Also features silent timing belt drive, 3,000' capacity, speed in excess of 10,000' per hour and fine precision workmanship. One person can handle a battery of TEL-Amatics—a great labor saver!

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support is said to keep both conductors smoothly centered on bends, making the cable essentially reflection-free, up to the cut-off frequencies, with minimum phase shift effects.

The coaxial connector is solderless and has a positive gripping action to produce, without mechanical distortion, a connection equal in strength to the cable sheath. The connector is known as Spir-O-lok.

A method of treating quartz which makes it suitable for use as a crystal resonator at temperatures higher than ever before possible has been developed in Bell Telephone Laboratories, 463 West St., New York 14. It was also found that an electrolyzed quartz crystal can be made to resonate very stably in a higher temperature range if it is cut at a higher orientation angle than previously thought possible. During studies leading to this development, an electric field of about 500 v/cm was impressed across a quartz crystal for about 24 hours at a temperature of 500 C. This caused impurities such as sodium and lithium to be swept out of the crystal. It was discovered that, as a result of this electrolysis, quartz retains its ability to vibrate with little energy dissipation even when used at temperatures as high as 550 C.

It is expected that electrolyzed quartz will be found useful in piezoelectric devices in high temperature environments, such as near heat engines, or possibly in missiles where it is difficult or costly to maintain moderate temperatures.



## employment service

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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

**Production Manager.** 14 yrs extensive background aircraft and missile industry: administrative and management, aerial, public relations, high-speed, research and development, publications, missile field-test project photo supervisor, motion pictures and stills, color and black-and-white; photography for advertising agency; production manager for photographic operations including 16mm sound stage and location, commercial stills, audio-visual film-strips, sound and color. Motion pictures include more than 70 half-hour TV productions among others. Additional experience includes photo-journalism, college instructor in photography, working knowledge of graphic arts as related to photography; B.S. and M.S. degrees. Married, children, willing to relocate, resume on request. Reply to Photography, Box 2255, Abilene, Texas.

**Assistant to Executive in Photographic Field.** Extensive experience in aerial photography with

over 4,500 hrs pilot time, photographic interpretation, photogrammetry, photographic instrumentation, motion-picture production and photographic research and development. Member Am. Soc. Photogrammetry, SMPTE. Age 43, married. Resume on request. P.O. Box 4476, Pensacola, Fla.

**Lab Tech.** Motion-picture color timer, B&W timer, printer, neg. worker. Working knowledge as cameraman, operated optical and animation cameras, set up color printing operation in large laboratory. Loyal and hardworking, wishes position in motion-picture production organization or laboratory outside New York metropolitan area. Full resume on request. P.O. Box 145, Fort Lee, N.J.

**In-plant, Audio-Visual Producer.** Experienced live & film TV producer-director, Lab Chief and Sound. 20 years professional service for TV, industry & education. Age 41, married, willing to relocate. Personal film equipment list & resume on request. Have own 11 B Processor, B & H J Printer, Westrex & Maurer Recorders, available if desired. Johnson Tele-Visuals, Box 809, Denver 1, Colo.

**Motion Picture Production.** Experimental film maker with unlimited creative imagination. New York Univ. Motion Picture major, B.S. Degree. 5 yrs production experience; producer, director, editor own films. Two Cannes Film Festival Awards 1958, 1961; awarded silver medallion by Screen Producers Guild in Jesse Lasky Competition. Resume on request. Films available as sample of ability. Lloyd M. Williams, 304 East 90 St., New York 28.

**Motion Picture Equipment Sales Engineer.** 15 yrs extensive experience with top company. Heavy knowledge of theatre and recording equipment sales for export and related administrative export procedures. Loyal and hardworking, wishes position with company located in New York metropolitan area. Full resume on request. Reply to R. Valle, 1480 Hancock Street, Elmont, L.I., N.Y.

### Positions Available

**Sound Transmission Engineer.** Familiar production and dubbing mixing, variable-area cross-modulation tests, and installation techniques for new motion-picture studio in British Columbia. Mild weather, good working conditions. Hollywood resident preferred. Salary commensurate with experience. H. M. Tremaine, 9658 Haddon Ave., Pacoima, Calif. EM 9-0386.

**Rental Manager.** Man to take full charge equipment rental department for Eastern Dealer. Experience handling cameras, lenses, lights, recorders, motors, editing, processing and printing machines etc. necessary. Good salary and advancement. D. J. Capano, S.O.S. Photo-Cine-Optics, 602 W. 52 St., New York 19.

**Maintenance-Repairman** for large Eastern supply house. Familiar with cinema processing machines, printers, optical benches, lab testing equipment. Knowledge of Moviolas, projectors, recorders, cameras etc. desirable but not absolutely necessary. Good pay, rapid advancement, air conditioned shop. Wm. Allen, S.O.S. Photo-Cine-Optics, Inc., 602 West 52 St., New York 19.

**Staff Cameraman-Editor.** Top-flight creative camera work is primary consideration, editing secondary. Must be fully qualified to handle both 16mm motion-picture and slidefilm photography. For small but expanding company with national accounts. Write Vogue Film Productions, Inc., Bowman Field, Louisville 5, Ky.



## NEEDS...

**a Mechanical Engineer** with experience in design of optical and magnetic sound-recording equipment, together with a broad knowledge of projection equipment design.

**a Sound-Recording Engineer** experienced in recording motion-picture soundtracks, transferring, mixing and editing. Must have experience with current high quality recording equipment.

**a Methods Engineer** with experience in instrument or photographic field, capable of developing methods, time standards, plant layout, new processes, and of maintaining procedures and controls for production. Must have experience in all phases of machine shop, finishing and assembly operations required in production of equipment in medium quantity volume.

*This is an opportunity to work together with a team engaged in finalizing the design of a new series of patented audio-visual and sound products and towards a program of systematic planned improvements of these designs.*

PERSONNEL DEP'T

APPLICANTS SHOULD  
SEND RESUME TO:

The **KALART** Company, Inc.  
PLAINVILLE, CONNECTICUT  
SHERWOOD 7-1663 Area Code 203