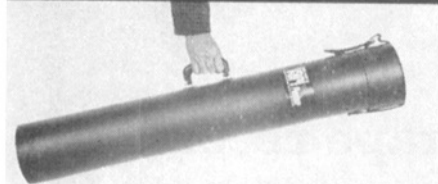




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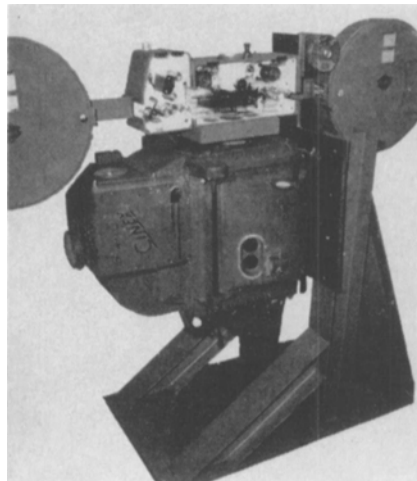
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Further information about these items can be obtained direct from the addresses given. As in the case of technical papers, the Society is not responsible for manufacturers' statements, and publication of these items does not constitute endorsement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



A 70mm, 10-perforation-pulldown projector — believed to be the largest motion-picture projector ever built — has been designed and manufactured by Century Projector Corp. for the KLM-Cinerama show at the New York World's Fair.

The projector, which throws an image onto the inner surface of a 70-ft-high dome, uses what is claimed to be the world's largest and widest-angle projection lens. As used at the KLM-Cinerama show, the projector operates at 18 frames/sec, or 168.75 ft/min.

The sprockets, including the intermittent, are double the size of those used in normal 70mm projection. The gear train has been patterned in general after the design of the Century 70-35mm projector.

A recoverable film-transport system to collect and store film from four on-board space cameras is being developed by D. B. Milliken Co., 131 N. 5th Ave., Arcadia, Calif., for George C. Marshall Space Flight Center, Huntsville, Ala., under a contract with NASA. Because it uses only one recoverable package for the film shot by four high-speed 16mm motion-picture cameras, the system will considerably reduce the overall weight of photographic instrumentation. Hoses up to 20 ft long will convey the film from the cameras to take-up reels in the ejection capsule. The take-up mechanism, using a single-shaft drive with four clutches, will permit the cameras to operate at independent frame

rates from 4 to 400 frames/sec. At the end of the last camera's film run, hoses will be automatically disconnected from the capsule, the film cut, and the package environmentally sealed for its ejection and descent to Earth.

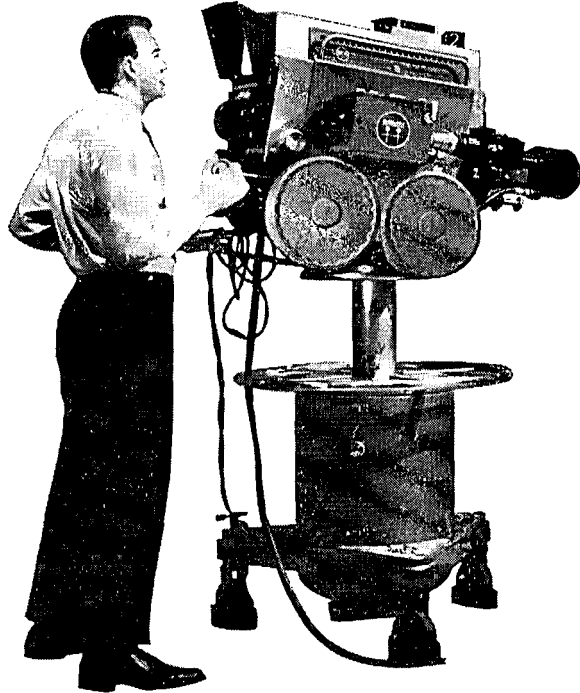
A new zoom lens system, optically compensated, has been designed by Northrop Nortronics, 500 E. Orangethorpe Ave., Anaheim, Calif., to produce continuously variable magnification within limited physical space. A prototype has been built with magnification continuously variable from 3X to 30X. Resolution is 210 lines/mm at film at 30X. Film format size is 4½ in. square to project on a 24-in. square screen. The lens is 31 in. long.

The basic system (Variable Magnification Lens system) as described in the announcement consists of (1) a positive triplet with two of the elements cemented; (2) an air-spaced negative triplet; (3) an air-spaced four-element positive component; (4) a negative triplet identical to the second component; and (5) a positive triplet identical to the first component. The three positive elements are linked as a unit and it is their movement with respect to the two fixed negative components that provides the variable magnification. All the lens surfaces are spherical and all air-glass surfaces are coated to reduce internal reflections to a minimum. Since the Variable Magnification Lens provides a range from 0.316X to 3.16X, auxiliary lenses may be used to provide additional magnification.

The prototype projection lens consists of the variable magnification lens, auxiliary optics, illumination system, film gate and controls. In operation the prototype's variable magnification control operates a miniature torque motor that drives a lead screw. The control drives the three positive components of the zoom lens in unison to increase or decrease the size of the image on the screen. During the process the image is continuously in focus. The control is deactivated when the desired image size is obtained.

The Stereoscan Electron Microscope is a product of Cambridge Instrument Co., Graybar Bldg., 420 Lexington Ave., New York, N.Y. 10017. It has been designed especially for examining solid specimens with comparatively rough surfaces or other characteristics that make them difficult to examine either directly or by extraction replica methods in a conventional transmission instrument. In operation a primary beam of electrons from a heated tungsten filament is focused to a fine point on the specimen and made to scan the surface by scanning coils and associated circuits. Secondary electrons emitted from the specimen as a result of excitation by the primary beam are collected by a high efficiency scintillation counter, the amplified output of which modulates the brightness of a cathode-ray tube screen scanned in synchronism with the electron-probe scanning the specimen. The microscope is designed to provide a maximum consistent resolution of 500 A or better. The maximum useful magnification for this resolution is between 20,000 X and 30,000 X over a scanned area of about 4μ square and the minimum achievable

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Every Television broadcaster, studio and producer that uses electronic cameras has a need to record a portion of his total production. Videotape supplies this need in many cases. However, the cost of videotape equipment, stock and handling represents a financial burden in many

situations. Particularly is this true where programming is to be widely distributed within and outside the country, such as in the case of producers of entertainment programs, educational material, industrial features, commercials, training programs, etc.

Also, foreign distribution of videotape is generally impractical because of differences in technical standards throughout many countries of the world. However,

every TV station in the world is equipped to use 16mm film, and regular projection equipment for group screenings is universally available and commonplace. The GEMINI system fulfills this recording and distribution need with economy, dependability and quality, backed by the reputation of the world's foremost production organization.



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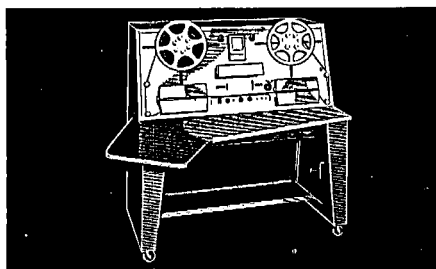
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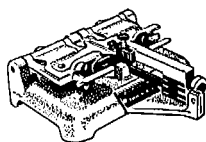
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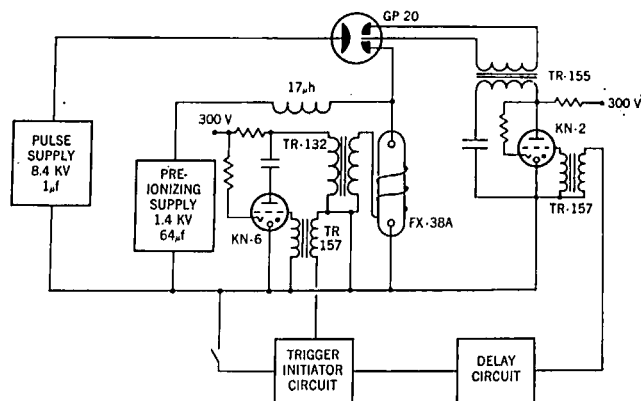


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A double-pulse xenon flashtube circuit for laser stimulation has been developed by Edgerton, Germeshausen & Grier, Inc., 160 Brookline Ave., Boston, Mass. 02215. The double pulsing is accomplished by driving a xenon flashtube with a low-voltage preionizing long pulse and then superimposing a short high-voltage pulse which is triggered 40 μ sec later. The preionizing long pulse consists of 64 j (8.4 kv at 1 μ f) and is 1.5 μ sec wide.

This technique is reported to produce a double pulse 2.4 times the peak radiant energy obtained from the previously used high-voltage short-pulse techniques. EG&G products used in the double-pulse technique include KN-2 Krytrons, TR-149 and TR-132 Transformers, GP-20 Triggered Spark Gaps, and FX-38A Xenon Flash-tubes. Light detection and measurement are done with the Lite-mike and Radiometer.

magnification is less than 100 \times over a scanned area of rather more than 1 mm square. The microscope is priced at \$64,000.



A portable 16mm single-system sound motion-picture camera weighing only 12 lb has been developed for ABC News by Beckman & Whitley, Inc., San Carlos, Calif. The new camera, called the CM16, is 15 in. long, 2 $\frac{3}{4}$ in. wide and 8 in. high, including film supply. The magazine (200-, 400-, or 1,200-ft capacity) is in the back of the camera, rather than the top, so that the cameraman can sight a full horizon. Synchronous mirrors are used to provide smooth, quiet operation. Because less power is required to drive the camera, the motor weighs only 8 oz. The sound in the camera is said to be equivalent to that of a first-rate tape recorder. The camera was used by ABC News in covering the Republican and Democratic national conventions. Commercial production is expected later this year.

A new version of the galvanometer-type light modulator for direct-positive variable-density recording utilizing supersonic bias has been developed by Wide Range Recording Corp., P.O. Box 1126, Maryland Hgts., Mo. 63045.

Variscan, a film viewer for military reconnaissance and aerial survey work, has been announced by Houston Fearless Corp., 11801 W. Olympic Blvd., Los Angeles, Calif. 90064. The device was developed at the firm's Nuclear Research Instruments Division in Berkeley, Calif., which specializes in the development of precision measuring projectors for films produced in high energy physics research. Capabilities of the new film viewer include that of projecting a full frame image on a 30-in. screen from a variety of films from 35mm to 9 $\frac{1}{2}$ in. wide; four different magnifications of images (3 \times , 6 \times , 12 \times and 30 \times); variable film transport speeds from 0.1 in./sec to 50 in./sec; complete rotation of images on the viewing screen as well as lateral and longitudinal adjustments; and variable focus and light intensity controls. A "joystick" controls film transport speed and direction as well as positioning images on the screen. Simple buttons and knobs allow rotation of the images, changes in magnification, and adjustments in focus and brightness.

Strong Troupers carbon arc follow spotlights can also be used as slide projectors by utilizing a newly developed optical system, according to an announcement by Strong Electric Corp., 534 City Park Ave., Toledo, Ohio 43601. The same arc light base and power supply can be used for either spotlighting or slide projection by interchanging the optical systems. The complete slide projector optical system, including necessary lenses and slide carrier, is preassembled in a base pan which can be mounted on the spotlight support channel after the spotlight optical system is removed. Used as a slide projector the equipment projects 7,500 lumens through a 3 $\frac{1}{4}$ \times 4-in. aperture. Projection lenses are available in focal length from 6 $\frac{1}{2}$ in. to



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12 in. at a price of \$525. Lenses having focal lengths from 14 in. to 20 in. are priced at \$625.

A new line of Ushio xenon short arc lamps ranging from 150 w to 5,000 w for d-c operation has been announced by Xebex, Inc., Seattle, Wash. 98104. Both ends of the lamps have specially designed air-cooling radiators and are fitted with cylindrical caps provided with pre-focus pins to allow replacement of the lamps without complicated adjustment.

The Schneider Variogon f/2 5X zoom lens for 16mm cameras has been announced by Burleigh Brooks Inc., 420 Grand Ave., Englewood, N.J. The lens zooms from 16mm through 80mm. Mechanical movement of three internal lens groups, rather than optical compensation, is used to keep the plane constant. The lens is only 5 in. long without the lens hood, zooms internally, and can focus as close as 5 ft. In a standard "C" mount for 16mm cameras it is priced at \$565.

Gas lenses that show promise for guiding laser beams in pipes for communication over long distances have been developed at Bell Telephone Laboratories. The lenses use variations in the refractive indices of gases to guide light. A long gas lens, or series of lenses, can confine a laser beam to a path near the center of a pipe. In a straight pipe the lens need not be strong because it must only compensate for the small natural spreading of the laser beam. In curved sections of the pipe the light beam normally would travel in a straight line. However, as the center of the pipe curves away from the beam's path, the beam encounters gas of decreasing refractive index. This region acts like a prism, deflecting the light beam in the direction of the pipe's curvature. The sharper the curve, the more the light beam must be focused to keep it from hitting the side of the pipe. Such a pipe, following the natural curves of terrain, could be the "transmission line" for a long-distance laser communication.

Two types of gas lenses have been tested. One lens structure consists of a gas-filled pipe. Inside the pipe, running through the center, is a spiraling coil or helix that is kept a few degrees warmer than the pipe. The helix heats the gas and sets up non-turbulent convection currents that cause the gas to concentrate in the center of the pipe. The gas's index of refraction increases in proportion to its density, so the light beam is focused. Various gases were tested in the pipe, including a mixture of air and carbon dioxide, the freons and some hydrocarbons.

In the second type of gas lens, two gases with different refractive indices flow together continuously from opposite directions into a mixing chamber. The gases meet, mix together and are drawn out of the chamber. The rate of gas flow and the chamber's shape create a symmetrically curved boundary region where the two gases meet. The light beam passes through the mixing chamber and is focused in this region. In the experimental lens tested argon and carbon dioxide were pumped in at a constant temperature to

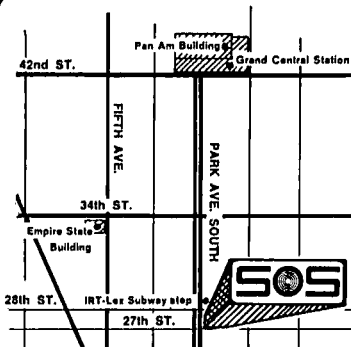
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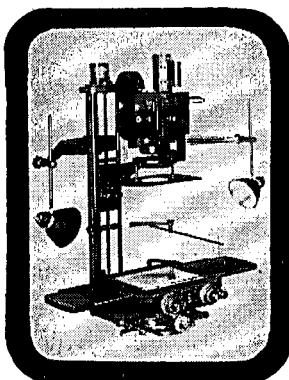
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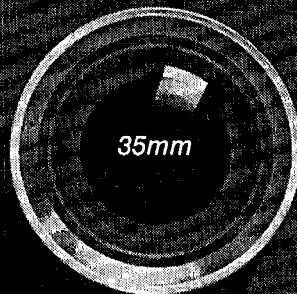
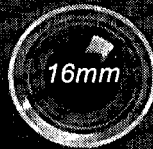
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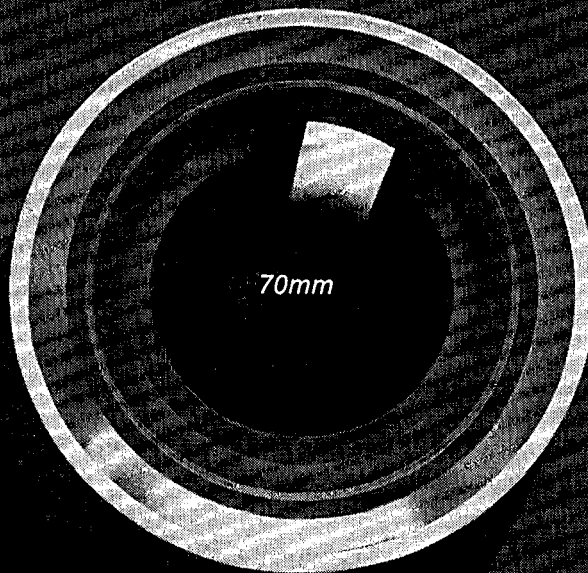
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avoid any effects due to temperature differences. At flow rates up to 1 liter/min both gases were free of turbulence.

These and other types of gas lenses currently being investigated at Bell Laboratories represent a basically new approach to the guiding of light beams over long distances.



The Minnorep, a battery-powered 8mm sound motion-picture projector with a built-in screen, has been developed by Newman & Guardia Ltd., of Great Britain, which manufactures the machine for Moviecol Sales Ltd. The projector is distributed in the United States and Canada by Graflex Inc., 3750 Monroe Ave., Rochester, N.Y. Said to be especially suitable for sales presentations, the projector weighs 16 lb and measures 13 × 6 × 5½ in. The battery carries a charge sufficient for the average day's use and it can be recharged overnight from any 110-v line source. The film is standard 8mm with magnetic soundtrack in a continuous loop cassette. It is priced at \$359.

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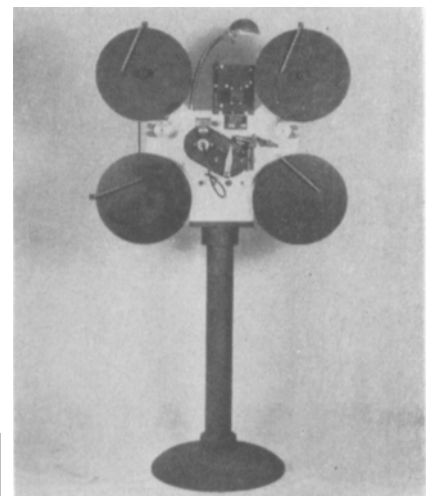
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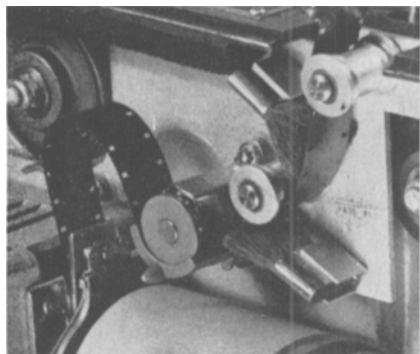
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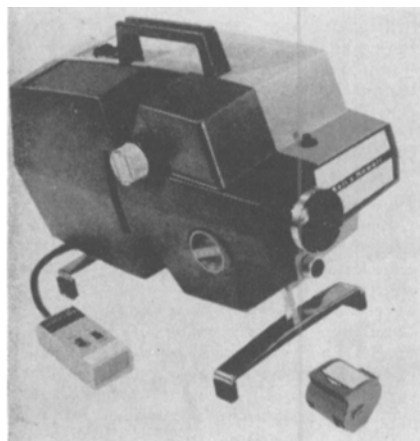


The SOS Tel-Amatic Printer, Model B, an improved continuous sound and picture printer for double 8mm and 16mm films, has been announced by SOS Photo-Cine-Optics, Inc., 387 Park Ave. So., New York, 10016. The Model B is equipped with a semiautomatic 21-scene light change. Feed and take-up shoe replace the pad rollers. The machine has a 1,200-ft capacity and a speed of 43 ft/min. The printer is

designed for color, black-and-white, reversal, sound, or silent films and sufficient light is provided to expose fine-grain film. A footage counter and light change card are included. The printer, mounted on Slimline floor pedestal, is priced at \$2,495.



An electrostatic film cleaner, a product of Lindau Film Cleaner Co., P.O. Box 483, Lake Forest, Ill. 60045, is described as a unit consisting basically of a frame which holds a pair of specially designed camel's-hair brushes. The brushes are held in delicate contact with both sides of the film as the film passes from the reel to the projector. According to the announcement, the brushes have a greater attraction than film for dust and the particles "leap" into the brushes and remain there. Cleaners have been developed for various types of projectors. The price ranges from \$13.95 to \$14.95.



A new filmstrip projector called Specialist Autoload Model 745 has been announced by Bell & Howell, 7100 McCormick Rd., Chicago, Ill. 60645. In operation a filmstrip is loaded into a teardrop-shaped polypropylene cartridge which is then dropped into place in the projector. The filmstrip is automatically threaded through the projector and rewound back into the cartridge. A loose filmstrip can also be automatically threaded and rewound. The machine also projects 35mm slides. There are three versions of the projector, the 745A, which has a 5-in. $f/3.5$ lens and 500-w lamp is priced at less than \$100. Model 745B has a 5-in. $f/2.8$ lens and 750-w lamp and is priced at less than \$130. Both versions weigh 12 lb. Model 745C has the same optical system as 745B plus remote control and weighs 15 lb. It is priced at less than \$150.

Eastman Sound Recording Tape, Type P105, has been announced by Eastman Kodak Co., Rochester, N.Y. 14650. Available in 600-ft, 1,800-ft and 3,600-ft lengths, the tape uses a high-output oxide applied with advanced coating techniques to give a signal-to-noise ratio said to be as much as 6 db greater than conventional triple-play tapes while it is reported to have a signal-to-print ratio comparable to most low-print tapes.

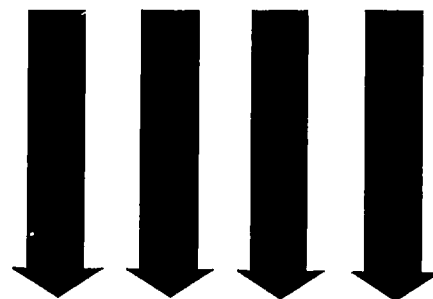
A television tape specifically designed for use with Ampex portable Videotape recorders has been announced by Ampex Corp., 401 Broadway, Redwood City, Calif. Called the Ampex 145 series, the tape utilizes a special coating process called Ferrosheen said to eliminate static charge build-up and to minimize attraction of dust particles. The tape is manufactured at the firm's magnetic tape division in Opelika, Ala.

Travelvision, an in-transit entertainment service developed by Ampex Corp., 401 Broadway, Redwood City, Calif., provides a compact magnetic tape TV playback system for installations aboard planes, buses, ships and trains. Motion-pictures recorded on video tape are played back in transit on TV receivers located throughout the vehicle. Individual stereo high-fidelity earphones at each seat carry recorded musical selections and motion-picture sound. In addition, TV cameras can supply in-transit pictures of aircraft landings and take-offs and en route scenery. Heart of the system is a 96-lb portable Ampex Videotape television reproduce unit which plays back pictures and sound on magnetic tape.

The Dependatherm is a pocket-size electronic thermometer manufactured in England by the Dependable Relay Co. and marketed exclusively by Kane-May Ltd., 243 Upper St., London N.1., England. Measurements are displayed on a $2\frac{1}{2}$ -in. dial immediately upon application of a small, pencil-shaped probe to the temperature source, which may be gaseous, liquid or solid. Single- and multi-range versions are available covering one or more temperature spans within the range of 0 to 200 C or 32 to 350 F. Interconnection leads between probe and instrument may be up to 50 ft long. The instrument measures $4\frac{1}{2} \times 2\frac{1}{2} \times 1\frac{1}{2}$ in. and weighs $7\frac{1}{2}$ oz.

A special shipping case for 16mm films has been introduced by Plastic Reel Corp. of America, Dept. FC-R, P.O. Box 750, Union City, N.J. The cases can be converted to hold 2, 3, or 4 reels by substituting longer locking devices for the shorter ones. The reels are shock-mounted between rubber mounts and a foam pad. The cases are said to be dust-proof, moisture-resistant and capable of withstanding extreme changes of temperature. They can also be used for stand-up storage cases.

The Rota-Lock, a product of Up-Right Scaffolds, 1013 Pardee St., Berkeley, Calif., is a locking device designed for flexibility in positioning theatrical lighting which locks sections of iron pipe at any

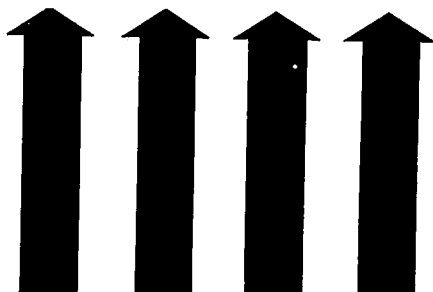


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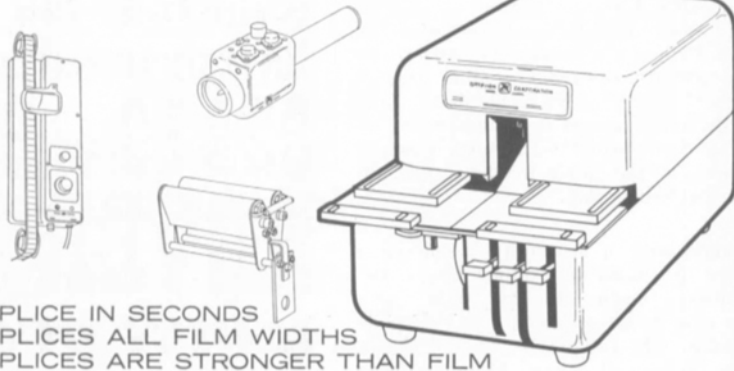
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