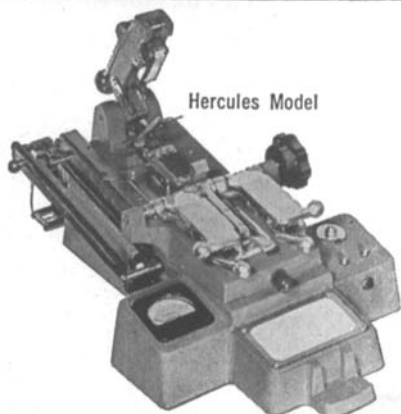


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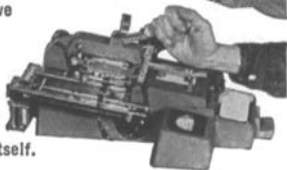
Newly modified Presto-Splicer butt-welds motion picture film, microfilm, acetate, mylar, Polyester, safety-base, paper . . . or any other kind of tape or film . . . AND INTERMIXES ANY OF THESE MATERIALS making a failure-proof, invisible weld that is literally the strongest part of the tape. Every splice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

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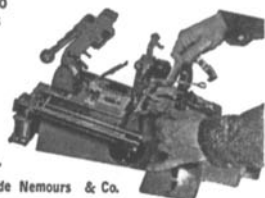
Slide handle toward you as far as it will go. This brings the special Mylar* tape with thermal setting adhesive into position.



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.



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The Adsorption of Developing Agents to a Dropping-Mercury Electrode (p. 234) *P. J. Hillson*

Some Notes on Maxwell's Colour Photograph (p. 243) *R. M. Evans*

Towards the Ultimate Speed in Photography (p. 247) *G. I. P. Levenson et al* (Symposium)

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Röntgenblitz-Kinematographie bei Frequenzen bis zu 12000 B/s (p. 229) *G. Thomer*

Photo-Technik-Wirtschaft, vol. 12, June 1961
Auch die 8-mm-Heimprojektion hat ihre Gesetze (p. 196) *H. Ulfers*

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Die Schmalfilmkamera bei Untersuchungen in Wissenschaft und Technik (p. 96) *F. Frese*

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vol. 108, Mar. 1961

Phase Variation of Very-Low-Frequency Waves Propagated Over Long Distances (p. 214) *B. G. Pressey, G. E. Ashwell and J. Hargreaves*

RCA Rev. vol. 22, June 1961

Helix Parametric Amplifier: A Broadband Solid-State Microwave Amplifier (p. 219) *C. L. Cuccia and K. K. N. Chang*

Optimum Band Shape for Television Intermediate-Frequency Amplifier (p. 245) *T. Murakami*

Suppression and Limiting of Undesired Signals in Traveling-Wave-Tube Amplifiers (p. 280) *H. J. Wolkstein*

High-Beam-Velocity Vidicon (p. 305) *J. Dresner*

Books, Booklets, Brochures

Planning Schools for New Media is a profusely illustrated (photographs, diagrams and drawings) 72-page manual prepared by three educators, Amo De Bernardis, Victor W. Doherty and Errett Hummel, and an architect, Charles William Brubaker, in cooperation with the Office of Education of the Department of Health, Education and Welfare. The purpose of the publication is to assist school board members, school superintendents and architects to plan school buildings so that teachers may make full and effective use of modern media of instruction. Preparation of the manual was performed under a contract made in accordance with the provisions of Title 7, Part B or the National Defense Education Act of 1958.

Films Incorporated, a subsidiary of Encyclopaedia Britannica Films, Inc. has issued a 160-page catalog (62-A) which lists hundreds of 16mm sound feature films and short subjects available on a rental basis. The service is mainly for schools, colleges and universities, shut-in institutions, social service centers, boys clubs, neighborhood houses, summer camps, churches and theaterless towns. Information is available from Films Incorporated, 1150 Wilmette, Acc., Wilmette, Ill.

More than three thousand journals, papers, selected books and other publications are indexed and annotated by Engineering Index, Inc., 345 E. 47 St., New York 17. The service is divided into 249 fields of interest. The Index issues annually a bound volume and maintains a card index service mailed weekly to subscribers.

Densitometers for density measurements of color and black-and-white positive or negative motion-picture films and optical soundtracks are described in a brochure available from the Westrex Recording Equipment division of Litton Systems, Inc., 335 N. Maple Dr., Beverly Hills, Calif., by requesting Bulletin 3.9. Descriptions and illustrations are included in the six-page brochure.

Magnetic films are described in a brochure which illustrates in color and describes in detail nine types of magnetic film (five with standard oxide coating, three with high output oxide, and one with heavy duty oxide). It is available upon request from Carl J. Andrews, Advertising Dept., Minnesota Mining and Mfg. Co., 900 Bush Ave., St. Paul 6, Minn. The brochure also contains information on splicing, erasure, cleaning and handling, and storage techniques.

Motion-picture lighting kits are described in an 8-page illustrated catalog of Colortran kits available from Natural Lighting Corp., 630 S. Flower St., Burbank, Calif. The catalog contains technical data on 16 kits for lighting areas of 15 × 20 ft through 20 × 40 ft. The kits are designed as units to fit into carrying cases. Components such as converters, lights, stands, grips, etc., are described. The firm also offers without charge a 4-page illustrated catalog of 3-wire custom power cables.

What's New in Photo Lamps and Lighting is a leaflet published by the Photo Lamp Department, General Electric, Nela Park, Cleveland 12, Ohio. Issue No. 17, dated August 1961, discusses the "Natural Look With Flash Outdoors," and takes up unusual lighting situations. Some suggestions are offered as to basic minimum equipment and a list of suggested filters for various types of light sources is given.

A 100-page catalog with 300 illustrations describing equipment for commercial and industrial motion pictures, television and photoinstrumentation is available from Gordon Enterprises, 5362 North Cahuenga Blvd., North Hollywood. Also included is reference material illustrated with charts and graphs.

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A Survey of Photographic Instruction, 2d ed., 1960, a résumé of instruction in American colleges, universities, technical institutions and schools of photography, is an Eastman Kodak publication (Pamphlet No. T-17). The pamphlet contains a list of colleges and universities offering courses in photography together with a brief description of the courses offered and also a list of Schools of Photography. This information is based on a survey completed in 1960. Only 1250 replies were received in response to 2100 questionnaires. Of the 1250 schools replying, 400 reported one or more courses in photography; 250 reported catalog courses in other subjects that include instruction in photography; 175 reported catalog courses in audio-visual materials; 30 offer minor credit in photography; 50 offer major credit in photography; 100 offer photography instruction in summer sessions; and 150 reported the employment of one or more full-time photography instructors.

A brief analysis of the survey presented in the pamphlet includes a discussion of certain interesting trends brought out by a comparison of the answers to questionnaires in this survey with the answers received in the survey made a few years ago. Trends noted in analysis include a marked and predictably continuing increase in instruction in audio-visual materials and methods, and also an increasing emphasis on photography in nonphotographic courses, such as the various sciences, medicine, art, etc.

Abstracts

Abstracts from other Journals, chosen for importance and timeliness, are published in the *Journal* from time to time. The greater numbers of these abstracts are translations, chiefly from the U.S.S.R., and made available by the *Kodak Monthly Abstract Bulletin*

The subject areas are grouped below

- Cameras and Equipment (except High-Speed)
- Cinematography
- Color Photography and Color Development
- Film and Its Properties
- Film Processing (Apparatus and Chemicals)
- General
- High-Speed Photography and Instrumentation
- Printing and Optics
- Projection
- Sound Recording and Reproduction
- Television

CAMERAS AND EQUIPMENT (Except High-Speed)

The Preparation of a Beam-Splitting Block for a Special-Effects Camera (in Russian), L. M. Glotova, *Tekh. Kino i Televideniya*, 5: 53-56, Mar. 1961.

In 1958 the NIKFI Laboratories introduced a traveling-matte technique into the Soviet film studios and produced the TKS-3

camera for special effects, including the traveling matte. The construction of the beam-splitting block used in that camera is described. It is made up of four right-angled prisms, two with an angle of 60°, and two with an angle of 45°, assembled so that a space is left between the two exit (45°) prisms for the passage of the film pack.—S.C.G.

Cameras for Amateur Cinematography (in Russian), N. Panfilov, *Kinomekhanik*, 24-28, Mar. 1961.

Brief descriptions, with tabulated data, are given for a range of amateur 16mm and 8mm cameras available in the U.S.S.R.—S.C.G.

Apparatus for the [Soviet] Cinema Network in 1961 (in Russian), G. Gnevyshev, *Kinomekhanik*, 2-5, Feb. 1961.

A range of equipment for Soviet cinemas at present available and to come into production during 1961 is reviewed.—S.C.G.

At the "Mos'film" Motion-Picture Studios (in Russian), G. Kh, *Tekh. Kino i Televideniya*, 5: 66-67, Mar. 1961.

A bayonet-type mounting for an anamorphic optical system for a motion-picture camera and an anamorphic attachment for projection in use in the Mos'film studios are briefly described.—S.C.G.

Motion-Picture Camera Objectives and the Criterion of Sharpness, A. L. Yarinovskaya, *Tekh. Kino i Televideniya*, 5: 29, Apr. 1961.

A method of defining the quality of an optical image by the criterion of sharpness with the help of edge gradient curves is considered. A quantitative evaluation by this criterion is proposed. The influence of stopping down the objective on the optical and photographic resolving power and on the image sharpness is explained.

The agreement of the results of objective quality determined with the help of optical image assessment by the criterion of sharpness, with the general evaluation of a photographic image is considered.

A Device for Testing the Setting of Objectives and the Position of the Ground-Glass Screen in the "Konvas-Automat" Motion-Picture Camera (in Russian), B. A. Shardin, *Tekh. Kino i Televideniya*, 5: 63, Jan. 1961.

Frame-by-Frame Filming with the Kiev-16C-2 Camera (in Russian), P. A. Degtyarev, *Tekh. Kino i Televideniya*, 5: 65-68, Jan. 1961.

A description is given of the mechanical alterations and electrical circuit used in converting a Soviet Kiev-16C-2 camera for time-lapse cinematography.

Investigation of the Noise of Motion-Picture Cameras and Developing Methods for its Reduction (in Russian), L. I. Zaets, *Trudy NIKFI*, No. 34, 101-109, 1960.

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