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Aus der Geschichte der Kinematographie *H. Tümmel*

Machine Design vol. 26, Dec. 1954
Analysis of Mechanisms with High-speed Photography (p. 206) *E. A. Edwards*

Philips Technical Review vol. 16, July 1954
Electronic Flash-Tubes (p. 13) *N. W. Robinson*

Philosophical Magazine
Series 7, Vol. 45, Oct. 1954
An Experimental Investigation of the Interaction of a Shock Wave with a Subsonic Stream Bounded by a Wall (p. 997) *D. W. Holder, A. Chinneck and G. E. Gadd*

Radio & Television News vol. 52, Aug. 1954
A Sound-Controlled Thyatron for High-Speed Photography (p. 36) *P. J. Vogelgesand and J. Hulmanowski*

Receiving Tubes for Color TV (p. 38) *W. H. Buchsbaum*

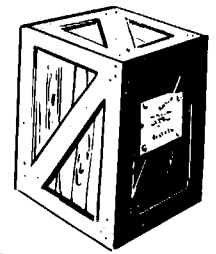
Fundamentals of Color TV; The Color Signal (p. 42) *M. S. Kiver*
vol. 53, Feb. 1955

TV Signal Tracer (p. 58) *H. E. Newton*

Oscilloscope Photography (p. 71) *E. G. Louis*

The Motorola 19" Color TV Receiver (p. 72) *M. S. Kay*

Tele-Tech vol. 14, Jan. 1955
New Color TV Projection System (p. 71)
vol. 14, Feb. 1955
How to Plan for Color Television Broadcasting (p. 60) *L. E. Anderson and W. O. Hadlock*



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 Inter Society Color Council News Letter No. 115 is a jubilee issue consisting of brief reviews of the progress made in color in the many fields covered by the Inter-Society Color Council during the editorship of the late Dr. H. I. Godlove. This, the 100th issue he had edited, was planned by Dr. Godlove just before his death as an issue of "rejoicing and accomplishment." Copies, priced at \$1, may be obtained from the Secretary, Ralph M. Evans, Color Control Div., Bldg. 65, Eastman Kodak Co., Rochester 4, N.Y.

Ten Years of Semi-Conducting Materials and Transistors is a 38-page bibliography produced by the Research Dept. of Pye Limited and available from Industrial Electronics Ltd, Exning Rd., Newmarket, England. The 31 pp. of subject index is well grouped under six headings and the complete author index is keyed to these groups.

Monroe H. Sweet, former AnSCO physicist, has announced the formation of the M. H. Sweet Engineering Co., with headquarters at Binghamton, N.Y. The new company consists of a Navigation Division and a Photometric Division and also serves as a consultant in the optical, photographic and aviation fields. The firm's present concentration is on the design and manufacture of air navigation devices, including autopilots, and on the development of photoelectric measuring devices such as densitometers. Associated with Mr. Sweet as chief engineer is James Casterlin, formerly of AnSCO and Link Aviation, Inc.

The Swedish "Strong" projector is a complete equipment including amplifier and loud speaker (Fig. 1). The lower magazine is built into stand A itself. Tilting is effectuated by means of regulator B.

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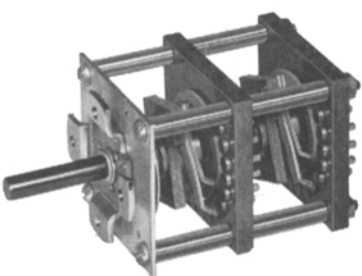
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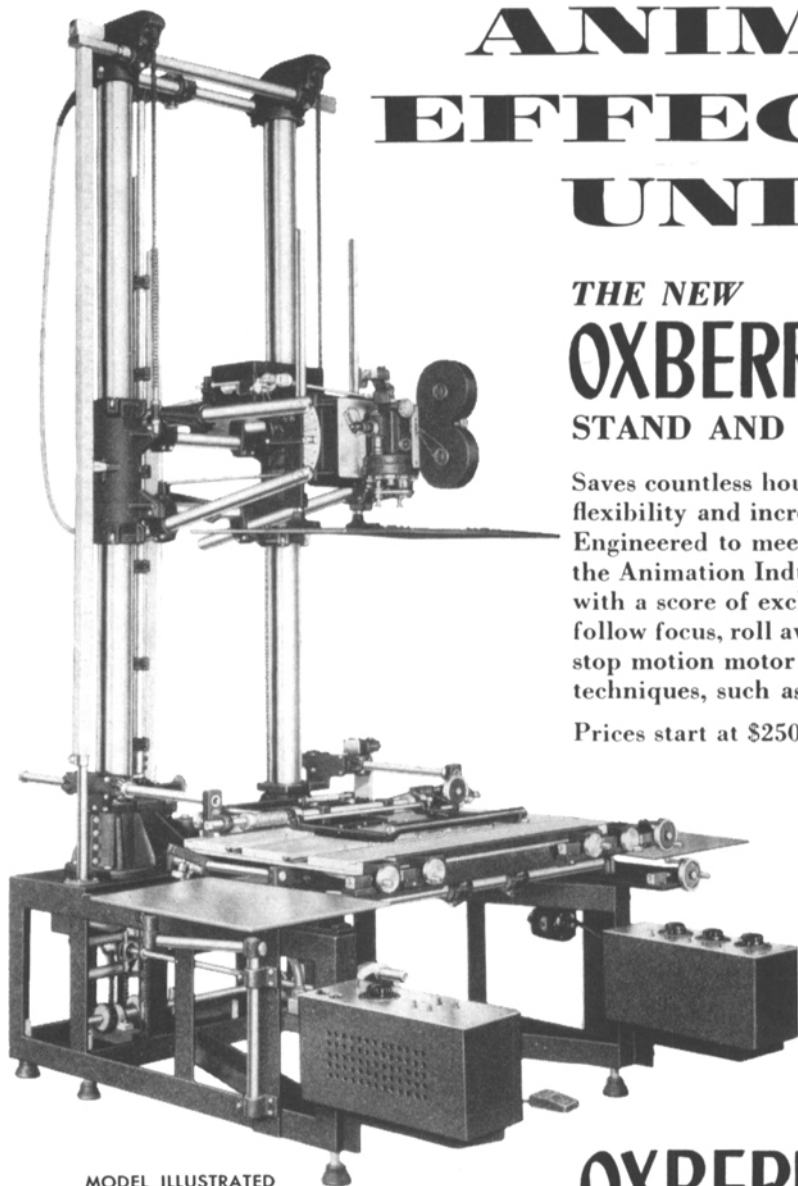
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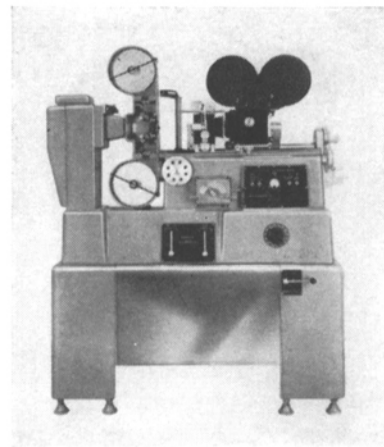
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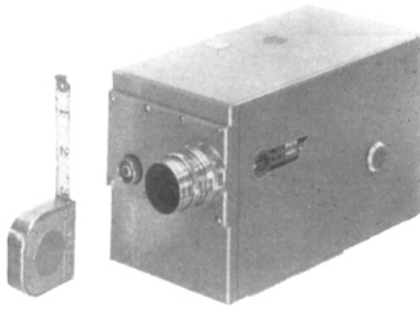
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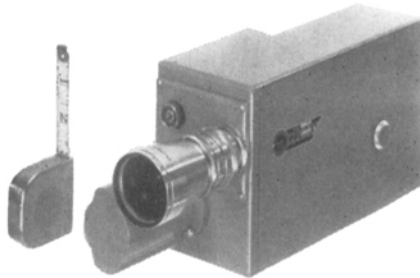


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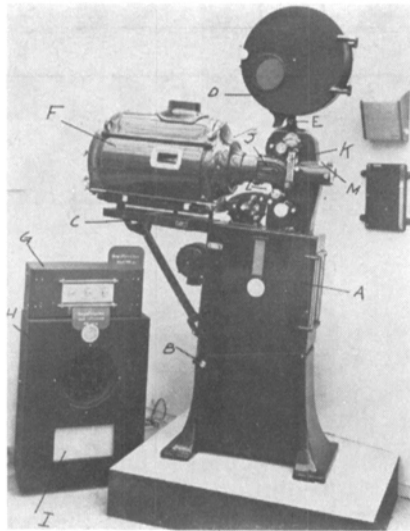


Figure 1

means of a single wheel. There are two picture operations, one for threading the film and one for projection. Handle L is used for framing the picture and is easily accessible. By means of a convenient pushbutton system the film gate is opened after the

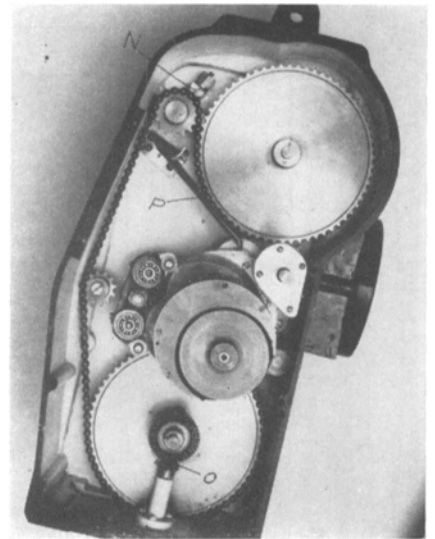


Figure 2

lens stand has been pushed aside. Pushing aside the lens stand provides ample space for inserting the film. Precision adjustment of the lens is solved in an ingenious way. A system of screws has been placed in a grooved cylinder M. By allowing a finger

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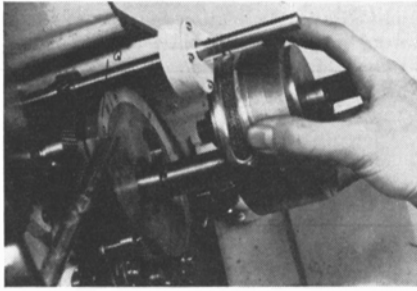


Figure 3

to glide over the cylinder the lens stand is moved into the position desired. Such precision adjustment is absolutely free of every vibration or jerk. The projector is belt-driven in order to facilitate its use with older equipment.

Figure 2 shows the interior structure of the projector. Simple and reliable transmission is achieved by means of a single chain which at the same time serves oil transportation. Thus no special pump is needed; the silent chains provide efficient oil lubrication for all parts of the projector. The silent chains provide not only safe, but also very easy, running and entirely eliminate the drawbacks of constructions with vertical axes. The chain transmission influences every machine element in projector mechanism. Spring system N acts upon a pressure cylinder which makes the chains stretch and spring. Cog-gear system O has been installed for the take-up axis built into the stand. The oil that has been

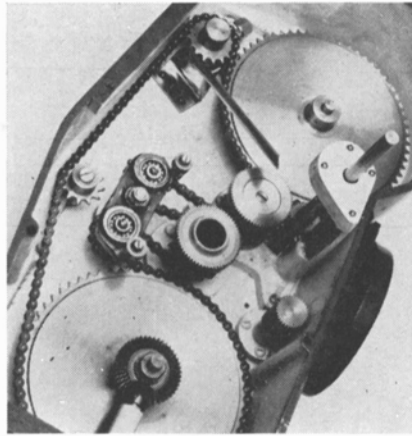


Figure 4

brought up is lead to the intermittent movement by means of channel P. The greatest wear of a projector is in the intermittent movement. By means of a few simple movements according to Fig. 3 this entire mechanism can be exchanged without difficulty. This illustration also clearly shows axis Q with its slanting cogwheel which through the intermittent movement acts upon a mechanism for the central adjustment of the picture. Figure 4 shows the inside after dismantling the intermittent movement.

All the machine elements included are of greatest precision. Utmost care given to every detail guarantees the high quality of the projector. As demands today are very great concerning steadiness of the picture,

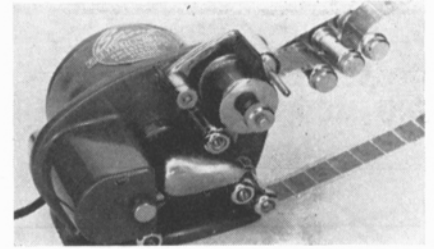


Figure 5

special attention has been given to the intermittent movement. With special consideration of the deformations which so easily arise due to dirt and wear upon the velvet bands, the film trap groove insert is constructed so that it can be exchanged without difficulty.

Figure 5 shows the Strong projection soundhead. It is provided with a sound optic with antireflex treatment, which guarantees highest light gain; therefore the sound lamp used is 6 watts, 6 volts at a current power of 1 ampere. Oscillations and speed variations are balanced in the usual way by means of a softening mechanism (vacuum damping). Every guide roller is provided with self lubricating bearings.

Every care has been taken to make the construction of this projector as modern and practical as possible, including a magnetic oil filter. Every detail is as simple as possible.—Karl E. Berggren, Engineer, Amerikansk Ljudteknik AB, St. Erikszatan 54, Stockholm.

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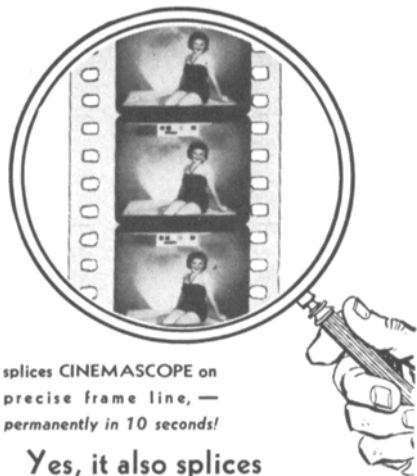
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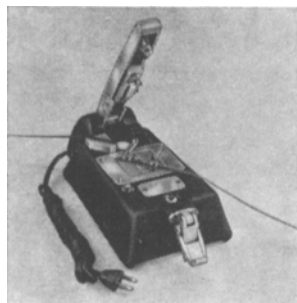
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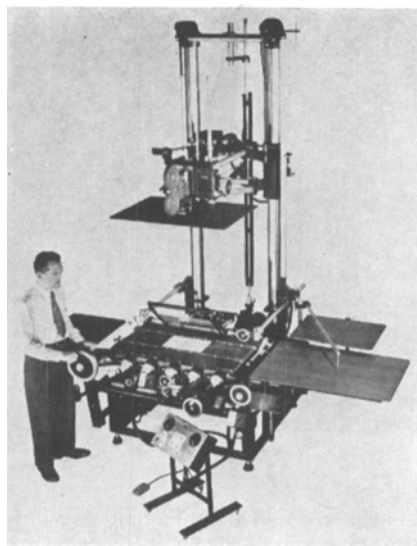
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