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ile-type system with a low rate of scanning, for the transmission of holograms.—S. C. G.

Quality criteria of photographic materials for use in holography, M. De Belder, *Phot. Sci. and Eng.*, 13: 351-360, Nov.-Dec. 1969.

The brightness of the reconstructed image in holography is expressed as a function of the photographic and physical properties of the photographic material, both for the case of plane and thick holograms. General relations are derived for calculating the intensities of the different orders in thick holograms. These relations are applied for calculating the intensity variation of the first order as a function of emulsion shrinkage, and for proving that second order images can be generated even in the absence of second harmonics. The dependence of image contrast and graininess on film noise is discussed. In the appendix results of the harmonic analysis of the real part of the amplitude transmission of a line pattern, obtained on Scientia 8E70 holographic material, is calculated for different values of the input modulation. The results of these calculations are compared with experiments.

Holography and stereoscopy: the holographic stereogram, Nicholas George and J. T. McCrickered, *Phot. Sci. and Eng.*, 13: 342-350, Nov.-Dec. 1969.

The holographic stereogram (HS) consists of an ensemble of juxta-positioned transform-holograms made from photographic transparencies of a scene. The

viewer looks into the HS, as with a conventional hologram, and sees a virtual image reconstruction accurately rendering the object space. In this treatment the two basic types are reviewed: one using a single exposure with a fly's-eye lens and



BOSTON, Oct. 14—Stephan A. Kallis, Jr., Digital Equipment Corp., Maynard, Mass., discussed Computer Animation Techniques. He described the categories of computer use in animation and the history and development of each type. Discussion was very brisk from users of the techniques, and from a guest group of students from Wentworth Institute in Boston.—R. A. Rubenstein, *Secretary-Treasurer*.

CHICAGO, Oct. 20—A pre-meeting dinner in honor of our guest speaker was held in the Colony Room of the Allerton Hotel. Henry A. Coopmans, Photometric Development Engineer, Bell & Howell Co., spoke on the subject of lighting, from subminiature to large studio lighting. His vast background on lamps was acquired through many years of working hand in hand with the engineers of various lamp manufacturers.

We were shown high-speed movies taken in the Bell & Howell Engineering Labora-

the other a temporal sequence of photos. Their conceptual relationship to Lippmann's integral photograph and Gabor's hologram is explained. Analyses are presented of scaling and resolution for the sequential type of HS. We find a linear scale factor d'/d in planes parallel to the HS and s_r/d_r' ($s_r m d$) in the normal direction where d is the lattice spacing used in the photography, s_r is the lens-to-film distance, m is the magnification, and d_r' are similarly defined for the holography step. Thus, up and down scaling as well as vertical exaggeration can be controlled. Using a simple Gaussian beam analysis, we find a formula for the angular resolution of the HS; and this is compared to the results for a conventional hologram Auditorium, (2) brightness and blur in the overlapping region between component holograms, and (3) alignment of Orbiter V photographs in making a lunar stereogram.

Physical properties of holographic materials, H. Nassenstein, H. Dedden, H. J. Metz, H. E. Rieck and D. Schultze, *Phot. Sci. and Eng.*, 13: 194-199, July-Aug. 1969.

Physical properties including spectral sensitization curves, amplitude transmittance functions, reciprocity characteristics, and holographic efficiency curves (maximum obtainable ratio of reconstructed to incident beam intensity vs. spatial frequency) are given of some recently introduced photographic materials for holography with HeNe- and ruby lasers.

Transmission of holograms (in Russian), P. V. Shmakov, P. M. Kopylov, E. V. Medvedev, A. N. Tachkov, and L. V. Gavrilov, *Tech. Kino i Televidinya*, 13: 46-47, Sept. 1969.

A brief description is given of a facsimile-type system with a low rate of scanning, for the transmission of holograms.—S.C.G.

tory of gaseous bombardment within the Xenon lamp. Also through the use of an overhead projector, Coopmans was able to show the filament structure (greatly magnified) of various subminiature halogen lamps and explained each lamp in detail. He had a display of at least 30 different lamps used throughout the industry.

His "off the cuff" delivery and spontaneous response to the many questions asked held the attention of the audience every minute of the program.—Chuck Zichterman, *Secretary-Treasurer*.

HOLLYWOOD, Oct. 20—A pre-meeting dinner and cocktail hour gave members an opportunity to become acquainted with the speaker, Kenneth D. Gustafson, Western Regional Mgr., Phillips Broadcasting Equipment Div.

Gustafson described and illustrated with color slides the step-by-step construction of a mobile TV production van. His discussion covered not only the pre-construction

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decisions and considerations but also the practical problems encountered. He frankly discussed the problems and solutions involved in such an undertaking.

After the presentation, the members were invited to tour the mobile van itself. Many practical questions were asked concerning the weight, size, materials, licensing, etc. of the unit. All questions were handled by the speaker.—Anthony D. Bruno, *Secretary-Treasurer*.

NASHVILLE, Oct. 30—The Board of Managers decided in January 1970, to try to hold one social meeting each year to provide an occasion for the wives of members of the Nashville Section to meet each other and become acquainted with the membership. It was felt such a meeting would better acquaint the wives with the activities and objectives of SMPTE. Each member purchased the necessary tickets for himself and wife.

A delightful buffet dinner was served prior to the staging of a most amusing comedy in three acts. There was a total attendance of thirty-five and all agreed it was a most rewarding evening.—Aaron Shelton, *Secretary-Treasurer*.

WASHINGTON, DC, Nov. 9—Fred E. Webb of the F. B. I. spoke on the uses of photography for surveillance as well as application and uses of the F. B. I. laboratory in helping analyze evidence through photography. He also covered the application of various types of film such as High-Speed and Infrared. Audience reaction was good. Many questions were raised during the discussion period. The pre-meeting was in the form of a dinner.—Ralph W. Sonnenberg, *Secretary-Treasurer*.

DALLAS/FORT WORTH, Nov. 10—This first meeting of our newly organized Dallas/Fort Worth Section was begun at 8 p.m. with a movie entitled, "What's On Your Mind." This movie was followed by a short business meeting at which the roster of officers and managers for 1971 was announced.

A paper entitled, "Local Programming on Film for Cable Television," was presented by George Gordon of Eastman Kodak Co., Rochester, NY. This was followed by a report and film, "High-Speed Photography as Used in Transistor Manufacturing," prepared and presented by Paul C. Pfeiffer of Texas Instruments, Dallas, TX.

The final presentation was a short discussion and demonstration of a new 16mm single-system sound camera by Hirofumi Watanabe of Cannon, U.S.A., Inc. The evening meeting was concluded with the serving of coffee and cookies in the Eastman Kodak cafeteria.—Franklin R. Reinking, *Secretary-Treasurer*.

SAN FRANCISCO, Nov. 10—Fourteen members and guests met for dinner at Giovanni's in Ghiradelli Square. After dinner the meeting was held at the Eastman Kodak Plant on Van Ness St.

Eastman representatives, Skip Miller, Ray Grant and Joe Semmelmayr presented the technical program for the evening. Grant opened the meeting with a ten minute kinescope for general entertainment. Miller then discussed and demonstrated

the Mark 300 globe, comparing it with the standard carousel and Kodak Pageant projector light sources. Grant demonstrated and discussed screen brightness using the high intensity Eastman screen.

Semmelmayr concluded the meeting with a discussion and demonstration of 35 and 16mm print quality. Open discussion followed the presentations.—William A. High, *Secretary-Treasurer*.

ATLANTA, Nov. 11—Twenty-three members attended the meeting at the Marketing Division of Eastman Kodak in Atlanta.

Bill Hedden, SMPTE Sections Vice-President from Calvin Productions spoke on 8mm lab operational concerns. He showed slides and film on equipment for printing, processing and cartridge loading that Calvin designed and built because none was available. He stressed the importance of standardization so professional machinery for handling and inspection can be mass produced to make it economical.

Three speakers from Cox Cable Communications, Inc. covered all aspects of CATV and its future. Henry Harris, Vice-President and General Manager gave a short history on CATV and talked about the latest developments from the FCC regarding restrictions on CATV. He advocated paying copyright fees to originators of programs and said the future could be fantastic if restrictions were eased. He went on to predict banking, shopping, educational, intercom and other uses.

Dough Talbott, Vice-President and Chief Engineer showed the latest equipment used in CATV including underground cable which is required now as utilities go underground. He said the number of channels in the future is virtually unlimited and that two-way communication is envisioned.

Tom Dowden, Secretary of Cox Cable Communications spoke on programming. The new FCC regulation requiring program origination will require large capital outlays for new equipment and program personnel. He said they have several tests working with producers of programs. He stressed the importance of more guidelines from the FCC on what constitutes local programming.

Refreshments were served following this most informative meeting.—G. M. Crowder, *Secretary-Treasurer*.

BOSTON, Nov. 18—Dr. William Brouwer, Division Mgr, Diffraction Limited, spoke on, "Optic Peregrinations in Taiwan." His talk covered the present rather poor condition of the optics industry in Taiwan. The optics industry was also placed in perspective with the general economy and culture of that nation.

Separately, there was a demonstration of a new product of Diffraction Limited, an inexpensive scatter plate interferometer.—R. A. Rubenstein, *Secretary-Treasurer*.

NEW YORK, Nov. 18—George K. Gould, Teletronics International, Inc., spoke on, "Are Television Control Rooms and Trailer Trucks Obsolete?" The talk was provocative in that he contended that the use of television control rooms and trailer trucks, with certain exceptions, inhibited creativity and inflated production costs. He predicted that within five years most program production would be done on videotape.

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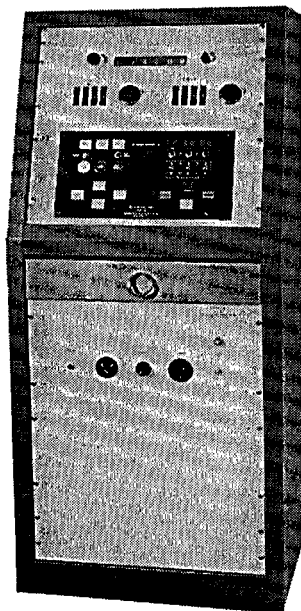
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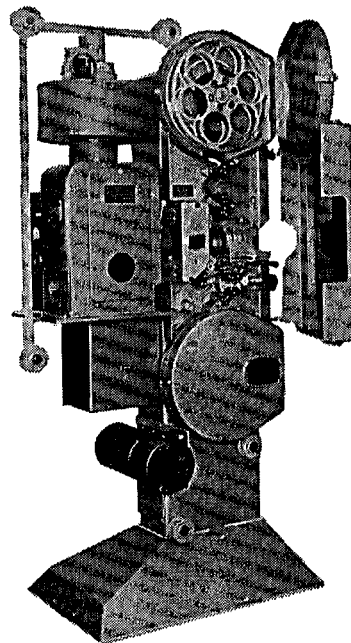
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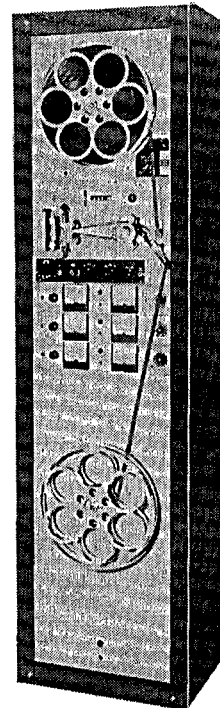
This track now has all of the final takes in sequential position and ultimately permits the screening of the picture and the final edited track in perfect synchronization. From this point the track is ready to go to a mix and no further editing is required.



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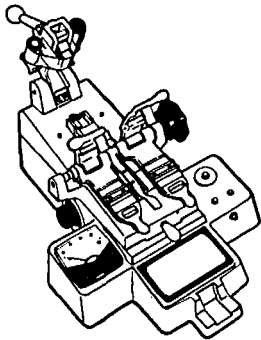
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G. A. Van Winkle, International Digisonics Corp., described, "Tomorrow's Communication System," by detailing the present Digisonics monitoring installations in the U.S. and the centralized daily collection of data by computer in Chicago. He outlined some of the existing problems and the measurers being taken to solve them.—Paul F. Wittlig, *Secretary-Treasurer*.

CHICAGO, Nov. 19—A pre-meeting dinner for officers and members was held at the Deerpath Inn in Lake Forest in honor of our guest speaker for the evening. Thirty one members and guests attended the dinner.

The meeting was held on the campus of Lake Forest College in Reid Hall. Our guest speaker, Dr. Tung Hon Jeong, Associate Professor of Physics, Lake Forest College, spoke on the subject of Lasers and Holography. Dr. Jeong entranced the audience of 135 members and guests with his wealth of knowledge on this subject. He explained the theory of lasers and its relationship to motion pictures. He also explained and visually demonstrated the basic holographic theory and application with both laser light and incandescent light sources. The display of various types of holograms, including transmission, reflection, cylindrical, focused image and a new type recently developed called the Phasogram amazed the audience.

Dr. Jeong, after the adjournment of the program, agreed to discuss in more detail and answer questions for those that so desired to stay. It was a program that will long be remembered by all.—C. Zichterman, *Secretary-Treasurer*.

OHIO, Dec. 2—The meeting was held at Motion Picture Sound, Inc. in Cleveland. Fifty-four members were present to hear a presentation on Electronic Music Synthesis and Recording and see a demonstration on the Moog Synthesizer given by Thomas Peterson, Jr., and his staff of Motion Picture Sound, Inc. The prize winning film, *The Ark*, was shown. This film incorporated music created by the methods described in the presentation. General discussion followed.

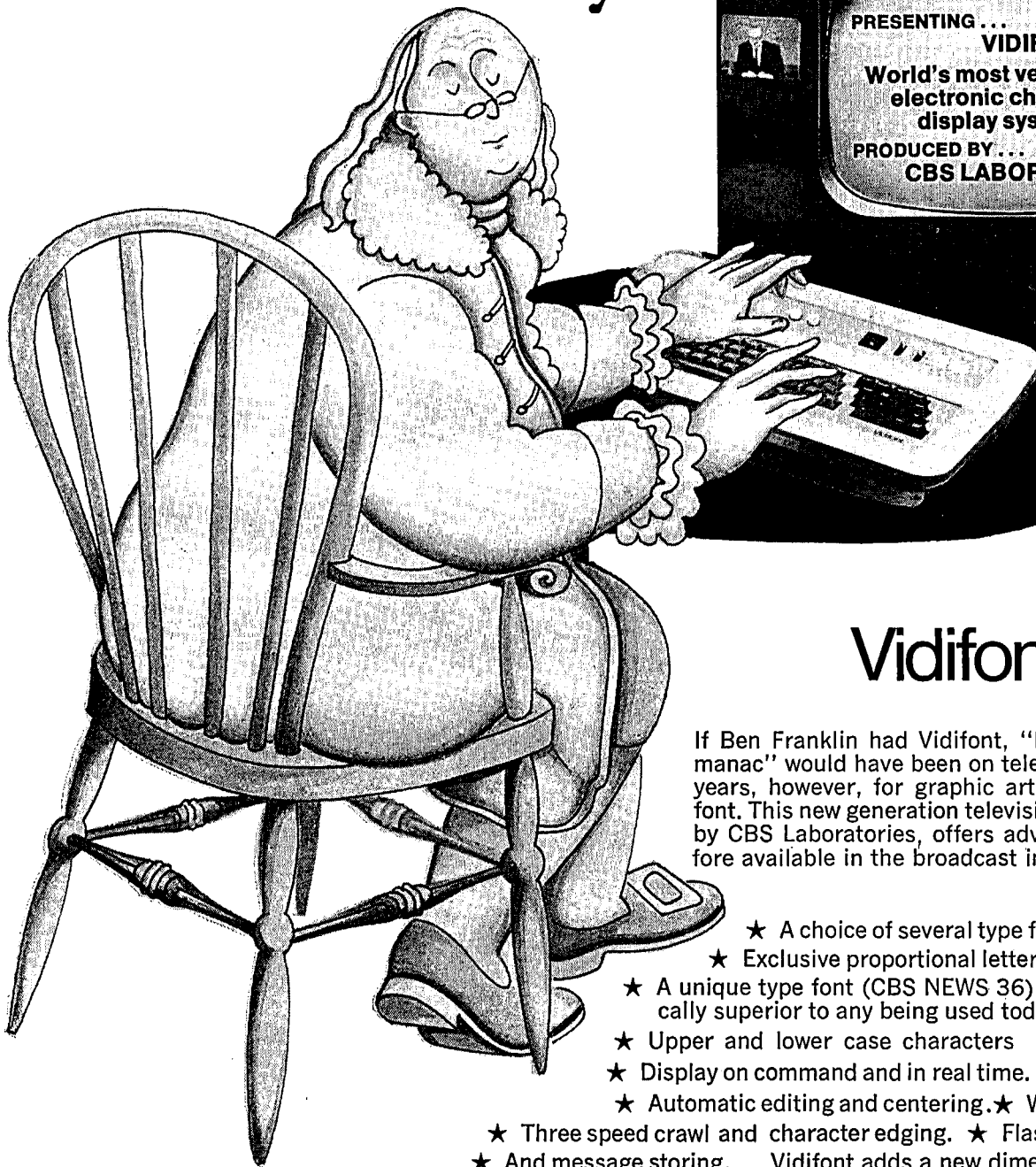
Prior to the meeting the Board of Directors met for dinner at the Colony Inn Restaurant.—Byrl L. Sims, *Secretary-Treasurer*.

DALLAS/FORT WORTH, Dec. 3—The meeting was held in the studios of KERA-TV, the educational television station serving the Dallas/Fort Worth area. The meeting began with a 25-minute movie provided by the Bell & Howell Co. which dealt with color additive light. Victor Duncan, Victor Duncan, Inc., gave "Comments on Photokina" illustrated with color slides. He described new motion-picture cameras, sound equipment and lighting equipment introduced at Photokina in Europe in 1970.

The meeting was concluded with tours of the KERA-TV facilities, coffee and a social period.

The Cinematographer's Club of Bell Senior High School in Hurst, Tex., was represented at this meeting by two club members and the club sponsor, Mrs. Mid-

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dleton, an instructor at Bell High School. It is planned that the Cinematographer's Club can have a part in a future meeting. —Franklin R. Reinking, *Secretary-Treasurer*.

WASHINGTON, DC, Dec. 9—Forty-five members and guests attended a combined SMPTE-SPSE Christmas party, arranged by SMPTE. There were excellent accommodations at the Naval Station, BOQ, Anacostia, Washington, D.C. An enjoyable time was had by all.—Ralph W. Sonnenberg, *Secretary-Treasurer*.

NEW YORK, Dec. 10—The meeting was held at the United Engineering Center, with an attendance of 90. The topic for the evening was editing tables. The two speakers were Robert Rowen, Kem Electronic Mechanic Corp., New York, and William A. Engstler, General Enterprises, Inc., Kensington, Md. These were verbal presentations and demonstrations of two of the new generation of table-top type of film editing machines. Attendance was adversely affected by the railroad strike.—Paul F. Wittlig, *Secretary-Treasurer*.

BOSTON, Dec. 12—It was the intent of the Boston Section to schedule a timely program dealing with the employment situation, bringing together a panel of local key people who are in tune with current job problems. However a similar and more intensive meeting was held by the American Institute of Chemists at the Hotel Sonesta, Memorial Drive, Cambridge, Mass. The all-day program opened with "Greetings," by Loren B. Sjostrom, State President of the AIC. Talks on the employment situation were: "Scientists in a Changing Market From the Academic Viewpoint" by Dr. Robert A. Alberty, Dean of Science, M.I.T.; "Scientists in a Changing Market From the Industrial Viewpoint" by Walter R. J. Brown, Executive Vice-President, Ealing Corp.; and "Continuing Education for the Scientists" by Dr. Israel Katz, Dean, Continuing Education, Northeastern University. In addition to AIC activities, a banquet luncheon was held and at the end of the day there was a summation and discussion period.—Robert Rebenstein, *Secretary-Treasurer*.

WASHINGTON, Jan. 11—A pre-meeting dinner was held at "Blackies House of Beef" for SMPTE members and program speakers. An excellent motion picture produced by the U.S. Navy, was made available for screening by USN Capt. C. R. Longo. The film was a highly interesting portrayal of the research program carried on at Point Magu, Calif., in the training and responses to training of porpoises.

If you have an historical interest in the many changes that have taken place in news photography over the years and you missed Frank J. Scherschel of the United States Information Agency, you missed one of the most fascinating speakers on the subject this writer has been privileged to hear. He humorously described most changes that have occurred since 1922, when he first started as a news photographer using flash powder, glass plates, tripod with pants belt for steadiness, etc. Scherschel was a photographer for a large

number of newspapers including Life Magazine where he had more than 25 covers to his credit. He is currently head of the still-photography laboratory for USIA.—Arthur L. Forest, *Secretary-Treasurer*.

ROCHESTER, Jan. 14—In a joint meeting with the Rochester SPSE and OSA Chapters, a presentation was given by Dr. Robert M. Boynton, Director of the Center for Visual Science of the University of Rochester. Dr. Boynton reviewed recent important developments in research on color vision mechanisms in primates including humans. He reviewed experimental methods used to demonstrate the similarity of human color vision to that of selected species of monkeys. Experimental methods and results relating to detection and measurement of electrical signals which transmit color information from the eye to the brain were also reviewed. Boynton included reports on his own work in this area during a one-year sabbatical at the University of California Medical Center Department of Physiology.

A pre-meeting catered dinner at the Memorial Art Gallery, meeting site, and a post-meeting coffee hour rounded out the evening.—R. K. Schafer, *Secretary-Treasurer*.

CHICAGO, Jan. 19—A joint meeting with the SPSE was held at Videotran, Inc., Glenview, Ill. The meeting was preceded by a managers' dinner at the Glenview County House. There were thirty-one members and guests in attendance.

The first speaker for the evening was Dave Bell, Chief Engineer for Telemation Productions, Inc., who spoke of the advantages of closed-circuit Television, using the industrial-type videotape recorder (VTR) as a communications tool for education, training, industry, medicine, etc.

The second speaker was Jack Cook, President of Videotran. He spoke on the technical aspects of converting videotape to 16mm movie film using 3M's new Electron Beam Recorder (E.B.R.). The interest shown by the audience of 105 members and guests was evidenced by the many questions asked. The evening was rounded off with a tour of the complete facilities of both Videotran and Telemation Productions, which are housed in the same building.—Matt Herman, *Secretary-Treasurer*.

BOSTON, Jan. 20—The evening's speaker was Prof. Donald H. Menzel, Director, Harvard College Observatory, who spoke on Solar Eclipses. Professor Menzel was director of the observatory solar eclipse expedition of Mexico in March 1970. He is already deep in preparations for eclipses in Canada, 1972, and the Sahara Desert, 1973. He showed some of his eclipse photographs and explained the uses of photographic and other instrumentation used in obtaining new information about the sun and the earth's atmosphere.

Dr. Menzel has published books and papers on a diversity of different subjects: stellar spectra, planetary atmospheres, radio astronomy and flying saucers, among others.—R. A. Rubenstein, *Secretary-Treasurer*.

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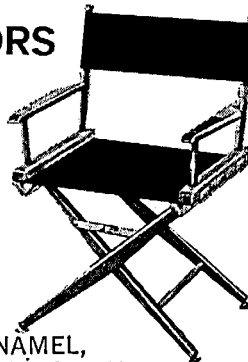
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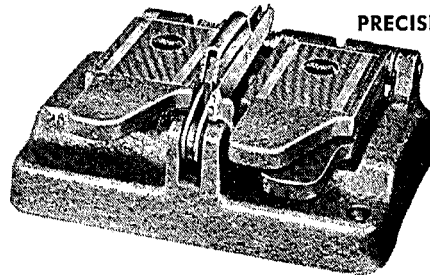
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