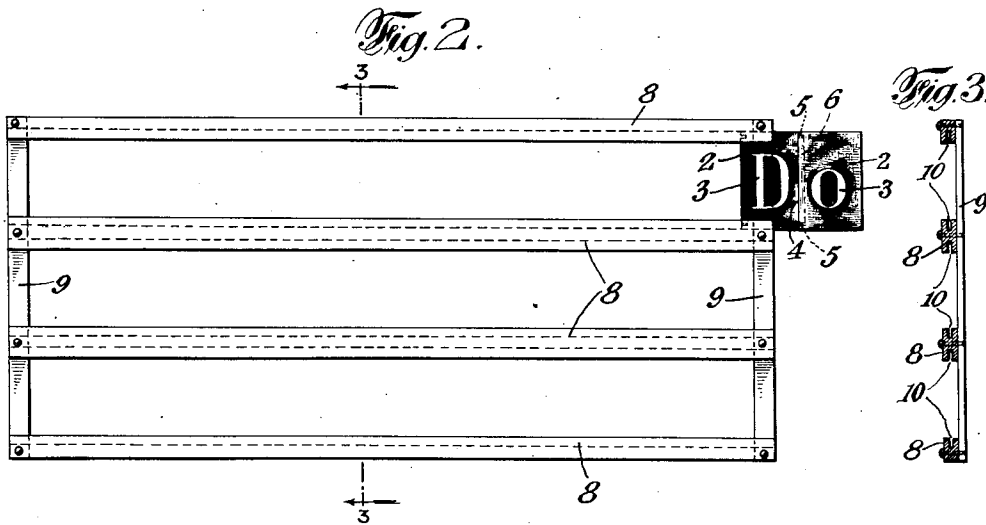
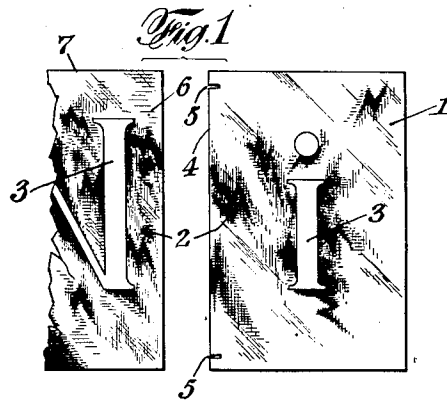


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 PRODUCTION OF READING MATTER ON MOTION PICTURE FILMS.
 APPLICATION FILED OCT. 23, 1920.

1,403,669.

Patented Jan. 17, 1922.



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UNITED STATES PATENT OFFICE.

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PRODUCTION OF READING MATTER ON MOTION-PICTURE FILMS.

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Application filed October 23, 1920. Serial No. 418,941.

To all whom it may concern:

Be it known that I, OSCAR CHOUINARD, a subject of the King of Great Britain, and a resident of the city of New York, borough of Manhattan, county and State of New York, have invented certain new and useful Improvements in the Production of Reading Matter on Motion-Picture Films, of which the following is a specification.

10 My invention relates to photographic production of reading matter on motion picture film, and more particularly to the method of photographically producing such reading matter, and to individual interchangeable
15 photographically made type by which said method may be carried out.

In the production of motion picture reels as now made, it is customary to have titles and explanatory matter on the film with the
20 pictures at desired locations. Considerable difficulty has been experienced in producing such reading matter upon the film at sufficiently low cost so as not to unduly increase the total cost of the film, and at the same
25 time have the reading matter sufficiently clear cut so that it may clearly appear upon the screen to thus enable rapid reading of such titles and explanatory matter, which is a highly desirable feature in projecting
30 motion pictures.

The objects of my invention are to provide a method of producing such reading matter, and type suitable for carrying out such method, by the use of which the reading
35 matter can be cheaply produced on the film in clear out lines.

The invention consists in the novel features hereinafter described and more particularly pointed out in the appended claims.
40 Referring to the drawings, Fig. 1 illustrates type made in accordance with my invention;

Fig. 2 shows an assembly frame in which the type is being set up; and

45 Fig. 3 is a cross-sectional view on line 3—3 of Fig. 2.

Referring to the drawings (Fig. 1), 1 is an individual type photographically made on an ordinary piece of flexible photographic film, and comprises the opaque ground 2 and the transparent character 3, the type being
50 made by photographing the character onto the film. One of the vertical marginal portions 4 of the film is slitted or otherwise suitably recessed transversely as at 5, through
55 the entire thickness of the film, so as to en-

gage the adjacent marginal portion 6 of another of the types 7, so as to definitely interlock the two adjacent types together, preferably both from relative movement toward
60 and from each other, and from relative movement along their height.

As herein shown, I accomplish this by forming two slits or recesses in the edge of one of the types at widely spaced points, and then
65 by taking that type between the thumb and finger and buckling it into U-shape, and taking the intended adjacent type held without being buckled, the marginal edge of said last mentioned type can be slipped right into the
70 slits or recesses 5, 5; and then when the pressure on the opposite edges of the recessed type is relieved, it will spring back into its horizontal or normal position, thus
75 leaving the two types interlocked, and with the adjacent edges of the two types completely overlapping throughout their thicknesses and throughout their lengths so as to prevent
80 any light passing through the adjacent portions of the types. With the two films thus interlocked they may be slid into the frame
as shown in Fig. 2, in which frame horizontal guide rails 8, 8 are held together by vertical members 9, 9, the guide rails having
85 grooves 10 formed in their faces to form guideways for the type.

When the types are thus started to be inserted into the frame, additional types are buckled into U-form as above described and thus interlocked with the next preceding
90 type, and the line of type pushed farther on into the guideway, and so on until a complete line of the reading matter is formed.

I am aware of the fact that it has been proposed to form individual type of metal
95 or other thick material with transparent characters stamped or otherwise formed thereon or therein, and that in order to align such type and prevent light from passing between the adjacent types it has been
100 proposed to longitudinally groove or rabbet the thick edges of the type. But this means very considerable cost in making such type, and besides this, the tendency of the type is to slip away one from the other, since
105 there is no gripping action between the respective edges of adjacent types.

By forming the individual, interchangeable type photographically on ordinary thin flexible photographic film the type can be
110 very rapidly and cheaply made with the characters very clear cut in outline; and by

providing the interlocking means described between such types, I am enabled to rapidly and reliably interlock the types in such manner that they will tend to be held together spaced by interlocking engagement, and can be rapidly assembled in the frame.

Having thus described my invention, what I claim is:—

1. Method of producing reading matter upon motion picture film, which consists in photographically forming individual interchangeable type upon flexible film, each type having a transparent character appearing upon an opaque ground, interlocking a plurality of said individual types and then sliding the interlocked types into a guide frame and photographing the aligned types.

2. Individual interchangeable types for photographic reproduction on motion picture film, each made of flexible film and having a transparent character appearing upon an opaque ground, adjacent margins of adjacent types being adapted to interlock and overlap through their entire thickness one upon the other.

3. Individual interchangeable types for

photographic reproduction on motion picture film, each made of flexible film and having a transparent character appearing upon an opaque ground, the margin of at least one of two adjacent types having one or more transverse recesses through the thickness of the film into which the margin of the adjacent type is adapted to be inserted so that the characters may be thus spaced one from the other.

4. Individual interchangeable types for photographic reproduction on motion picture film, each made of flexible film and having a transparent character appearing upon an opaque ground, the margin of one of the types having a plurality of spaced transverse recesses into which the margin of the adjacent type is adapted to be inserted when the recessed type is buckled, whereby when the buckled type is released, adjacent types are frictionally gripped and interlocked one with the other.

In testimony whereof, I have signed my name to this specification.

OSCAR CHOUINARD.