

No. 863,141.

PATENTED AUG. 13, 1907.

C. J. BENSINGER & M. R. EULLER.

MOVING PICTURE FILM.

APPLICATION FILED MAY 7, 1906.

Fig. 1.

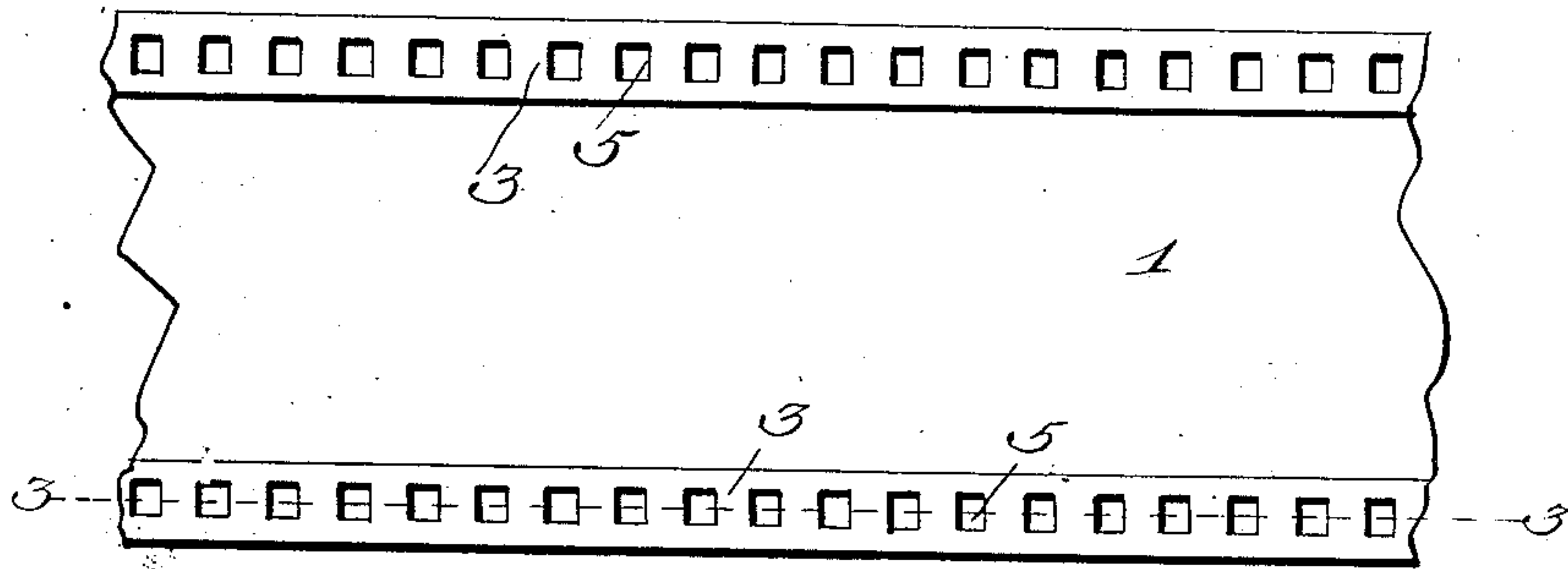


Fig. 2.

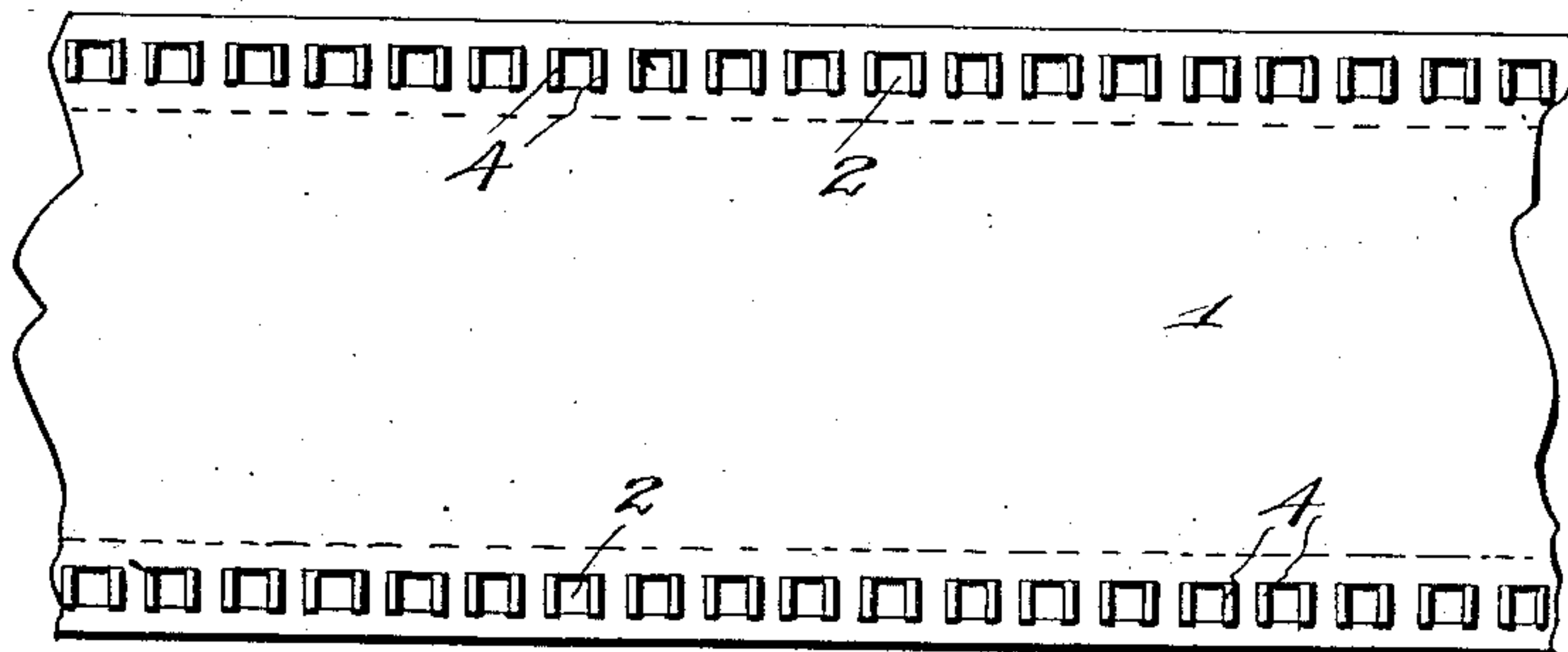


Fig. 3.

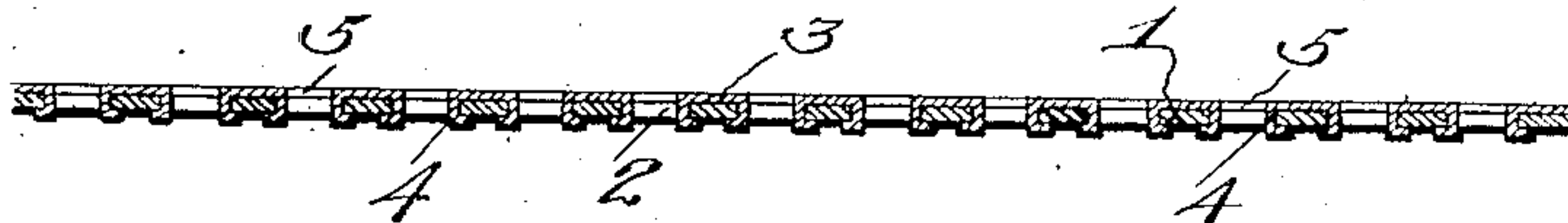
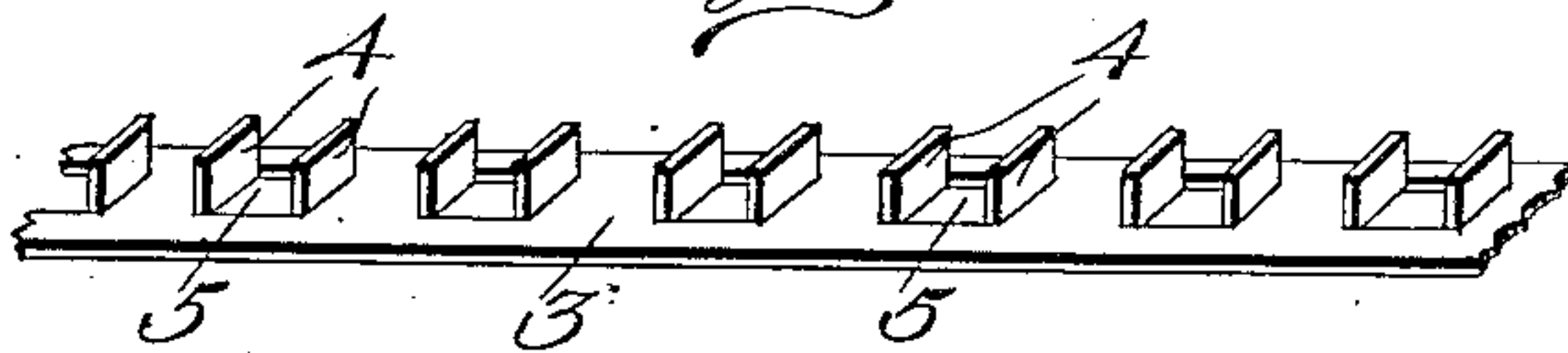


Fig. 4.



Witnesses
C. J. Hunt,
C. H. Griesbauer.

Inventors
Charles J. Bensinger,
M. R. Euler
by *A. B. Wilson & Co*
Attorneys

UNITED STATES PATENT OFFICE.

CHARLES J. BENSINGER AND MONTFORD R. EULLER, OF FINDLAY, OHIO.

MOVING-PICTURE FILM.

No. 863,141.

Specification of Letters Patent.

Patented Aug. 13, 1907.

Application filed May 7, 1906. Serial No. 315,622.

To all whom it may concern:

Be it known that we, CHARLES J. BENSINGER and MONTFORD R. EULLER, citizens of the United States, residing at Findlay, in the county of Hancock and State of Ohio, have invented certain new and useful Improvements in Moving-Picture Films; and we do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in moving picture films.

The object of the invention is to provide a film of this character having means whereby the emulsion side of the film will be protected from becoming marred or scratched, and the edges of the film prevented from being cracked or torn.

With the above and other objects in view, the invention consists of certain novel features of construction, combination and arrangement of parts, as will be hereinafter described and claimed.

In the accompanying drawings:—Figure 1 is a plan view of one side or section of the film constructed in accordance with the invention; Fig. 2 is a similar view of the opposite side; Fig. 3 is a longitudinal sectional view on the line 3—3 of Fig. 1; and Fig. 4 is a detail perspective view of a section of the protecting tape before being applied to the film.

Referring more particularly to the drawings, 1 denotes the film, which is provided along each edge with the usual apertures or perforations 2. Adapted to be arranged adjacent to each edge of the film over the perforations 2 is a narrow, thin, flexible strip or tape 3, which may be formed of any suitable material, but is preferably formed of steel. The strip or tape 3 is provided with a series of laterally projecting tongues 4, which are struck or cut from the material forming the tape and are bent at right angles to the latter, as shown in Fig. 4 of the drawings. The tongues 4 are adapted to project through the apertures or perforations 2 in the tape, and are bent downwardly into engagement with the outer or plain side of the film, as shown, thereby securely fastening the strip or tape to the film.

By providing protecting strips and securing the same to the film as herein shown and described, the emulsion side of the film will be protected from being scratched or rubbed when the film is being used, said strip also strengthening the film and preventing the edges of the same from becoming torn or broken. The

cutting of the tongues 4 in the strip or tape as herein shown and described also provides openings 5 in the tape, which correspond to the openings 2 in the film and the tongues 4 protect the edges of said openings from being torn or worn by continuous use in the machine.

A protecting strip constructed as herein shown and described may be applied both to new films purposely constructed to receive them or to old films by forming apertures along the edges thereof to receive the clenching tongues formed on the tape.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring more extended explanation.

Various changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention, as defined by the appended claims.

Having thus described my invention, what I claim as new and desire to secure by Letters-Patent, is:—

1. A moving picture film having formed therein adjacent to each edge a series of holes or perforations, flexible metal tapes adapted to be secured to one side of said film adjacent to each edge of the same and having perforations registering with the perforations in the film, and means whereby said tapes are firmly secured to the film, substantially as described.

2. A moving picture film having formed therein adjacent to each edge a series of perforations or openings, flexible metal strips arranged on one side of said film over said openings, and fastening tongues formed in said strips to enter the openings in said film, substantially as described.

3. A moving picture film having formed therein adjacent to each edge a series of apertures, flexible metallic strips arranged on one side of said film adjacent to each edge and over the apertures of the same, attaching tongues struck or cut in said metallic strips and bent laterally therefrom to form openings in the strips, said tongues being adapted to enter the openings in said film and to be clenched against the opposite side of the latter, thereby protecting the walls of said openings and securing said strips in place, substantially as described.

4. A metallic protecting strip for moving picture films, having formed therein a series of holes and integral, angularly bent securing tongues formed on said strip by the cutting of said holes, substantially as described.

In testimony whereof we have hereunto set our hand in presence of two subscribing witnesses.

CHARLES J. BENSINGER.
MONTFORD R. EULLER.

Witnesses:

ANNA SOURS,
MERLE D. SOURS.