

A. O. BUECHNER.
 PICTURE BAND FOR KINEMATOGRAPHIC PURPOSES.
 APPLICATION FILED JULY 12, 1911.

1,010,228.

Patented Nov. 28, 1911.

Fig. 1.

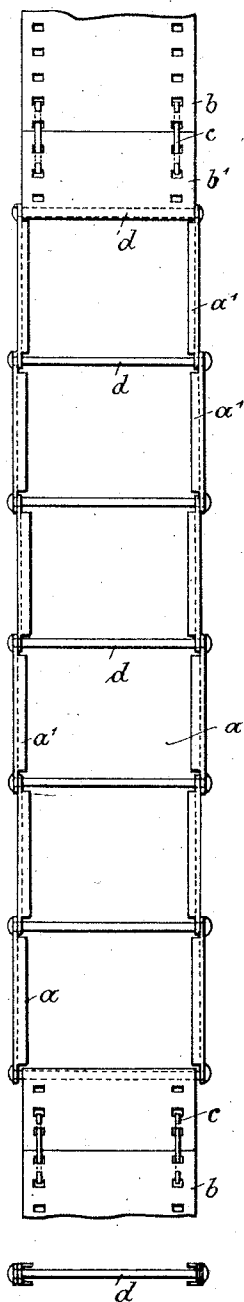


Fig. 2.

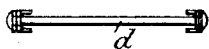
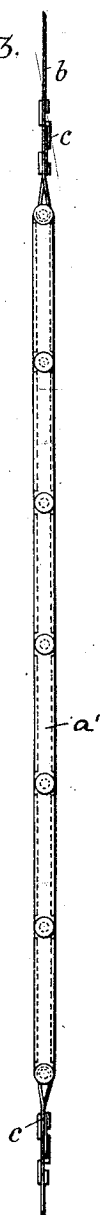


Fig. 3.



Witnesses.
 Lem A. Courthall
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Inventor.
 Albert Oswald Buechner
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UNITED STATES PATENT OFFICE.

ALBERT OSWALD BUECHNER, OF ZURICH, SWITZERLAND, ASSIGNOR TO THE FIRM OF PRANA GESELLSCHAFT FÜR TAGESLICHT-PROJEKTION MIT BESCHRÄNKTER HAF- TUNG, OF HAMBURG, GERMANY.

PICTURE-BAND FOR KINEMATOGRAPHIC PURPOSES.

1,010,228.

Specification of Letters Patent. Patented Nov. 28, 1911.

Application filed July 12, 1911. Serial No. 638,100.

To all whom it may concern:

Be it known that I, ALBERT OSWALD BUECHNER, a citizen of Switzerland, and resident of Zurich, Switzerland, have in-
5 vented a new and useful Picture-Band for Kinematographic Purposes, of which the following is a specification.

When making use of kinematographic ap-
paratus it is desirable or necessary now and
10 then to allow an unmovable or standing picture to appear on the screen, for instance when it is necessary to exhibit a text or some writing for explaining the following animated picture.

15 Heretofore a considerable number of iden- tical momentary pictures were required to be reproduced, which particularly in case of writings was objectionable on account of the unsteadiness of the letters, which were diffi-
20 cult to read and troubled the eye. This drawback is obviated by the present inven- tion according to which a picture band is designed consisting of sections of an ordi-
25 nary film and sections of rigid plates, so that there is no necessity to use a common projection-apparatus beside the kinemato- graph. The new picture band consisting of film-sections and rigid sections in combina-
30 tion is used in a kinematograph as ordinary film band with the exception that the feed of the film band is interrupted when a rigid section or plate comes in front of the lantern so as to exhibit the picture on such rigid section for a longer time. The sections may
35 be connected one with another by joints or the like, particularly when several rigid sections follow one another without interme- diate film sections.

40 Figure 1 in the accompanying drawing shows part of a combined picture band in elevation. Fig. 2 is a cross-section of Fig. 1. Fig. 3 is a side view of Fig. 1.

In the construction shown in the drawing
45 six rigid sections *a* are provided to exhibit six different unmovable pictures one after another. Of course instead of six more or less rigid sections may be used following one another. As a rule only one single rigid section or picture may be arranged between
50 film sections *b* carrying a larger number of pictures, so as to allow single standing pictures to alternate with series of movable or animated pictures.

The rigid sections *a* preferably consist of

glass plates provided with the usual photo- 55 graphic layer, such as gelatin and covered with a second glass plate. This combined plate is let into lateral U-shaped bars *a'*, the webs of which project beyond the upper and lower rim of the plates and are provided 60 with an opening, through which a headed bolt or rod *d* is passed, in such manner as to connect the bars *a'* of two consecutive plates and thus serve as a joint for the rigid sec- 65 tions. Any other means may be designed to rotatively connect two consecutive rigid sections instead of using the particular joint shown. To connect the rigid sections with the film sections *b*, a strip *b'* of film-material 70 may be slipped over the rod *d*, and doubled and this doubled film piece is attached to the film section *b* by the aid of prongs or clamps *c*, which are preferably made of thin annealed copper plate or wire, or other means. If desired the film piece *b'* may be 75 attached to the film *b* by an adhesive.

The slides for the rigid sections are prefer- ably made by cutting the pictures from a kinematographic film and placing them be-
80 tween glass plates. The glass plates cover- ing the films prevent the air from coming in contact with the film itself, so that it is impossible for the latter to catch fire, when subjected to the heat of the lantern, for some time. Thus the film is enabled to be 85 used as a standing picture.

It is not necessary to use glass plates on both sides of the film serving as a standing or unmovable picture; it is sufficient to affix the film on glass only on one side by an ad-
90 hesive or otherwise, because if so protected the film, even if made of celluloid, which, as is known is very combustible, will withstand the heat of the lamp sufficiently and under ordinary circumstances will not be inflamed 95 thereby. If but one plate of glass is used it is of advantage to place the photographic layer of the film in contact with the glass plate.

What I claim is:

100 1. A picture-band for kinematographic purposes consisting of ordinary film sections for kinematographic reproduction and of rigid sections for the reproduction of inter- mediate unmovable pictures.

105 2. A picture band for kinematographic purposes consisting of ordinary film sections for kinematographic reproduction and of

rigid sections consisting of glass for the reproduction of intermediate unmovable pictures.

3. A picture-band for cinematographic purposes consisting of ordinary film sections for cinematographic reproduction and of rigid sections for the reproduction of intermediate unmovable pictures the rigid sections being connected one with another rotatably by joints.

4. A picture band for cinematographic

purposes, consisting of ordinary film sections for cinematographic reproduction, and sections capable of withstanding the heat of the lantern without burning interposed between the film sections for the reproduction of intermediate unmovable pictures.

ALBERT OSWALD BUECHNER.

Witnesses:

AUGUST RÜEGG,
CARL CUBLER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."

Correction in Letters Patent No. 1,010,228.

It is hereby certified that in Letters Patent No. 1,010,228, granted November 28, 1911, upon the application of Albert Oswald Buechner, of Zurich, Switzerland, for an improvement in "Picture-Bands for Kinematographic Purposes," an error appears in the printed specification requiring correction as follows: Page 1, line 57, for the word "class" read *glass*; and that the said Letters Patent should be read with this correction therein that the same may conform to the record of the case in the Patent Office.

Signed and sealed this 26th day of December, A. D., 1911.

[SEAL.]

C. C. BILLINGS,
Acting Commissioner of Patents.