

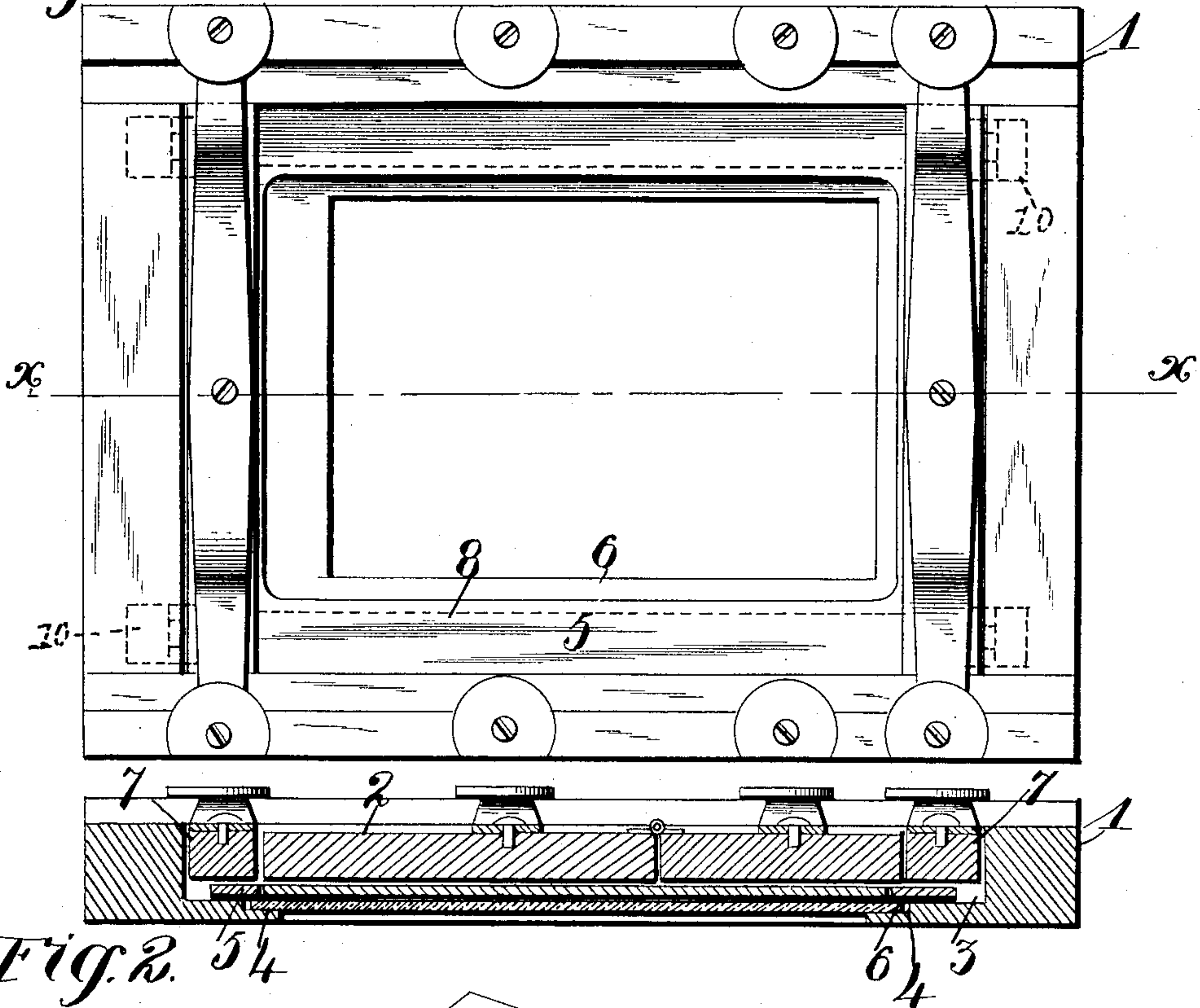
(No Model.)

H. KUHN.  
PHOTOGRAPHIC PRINTING FRAME.

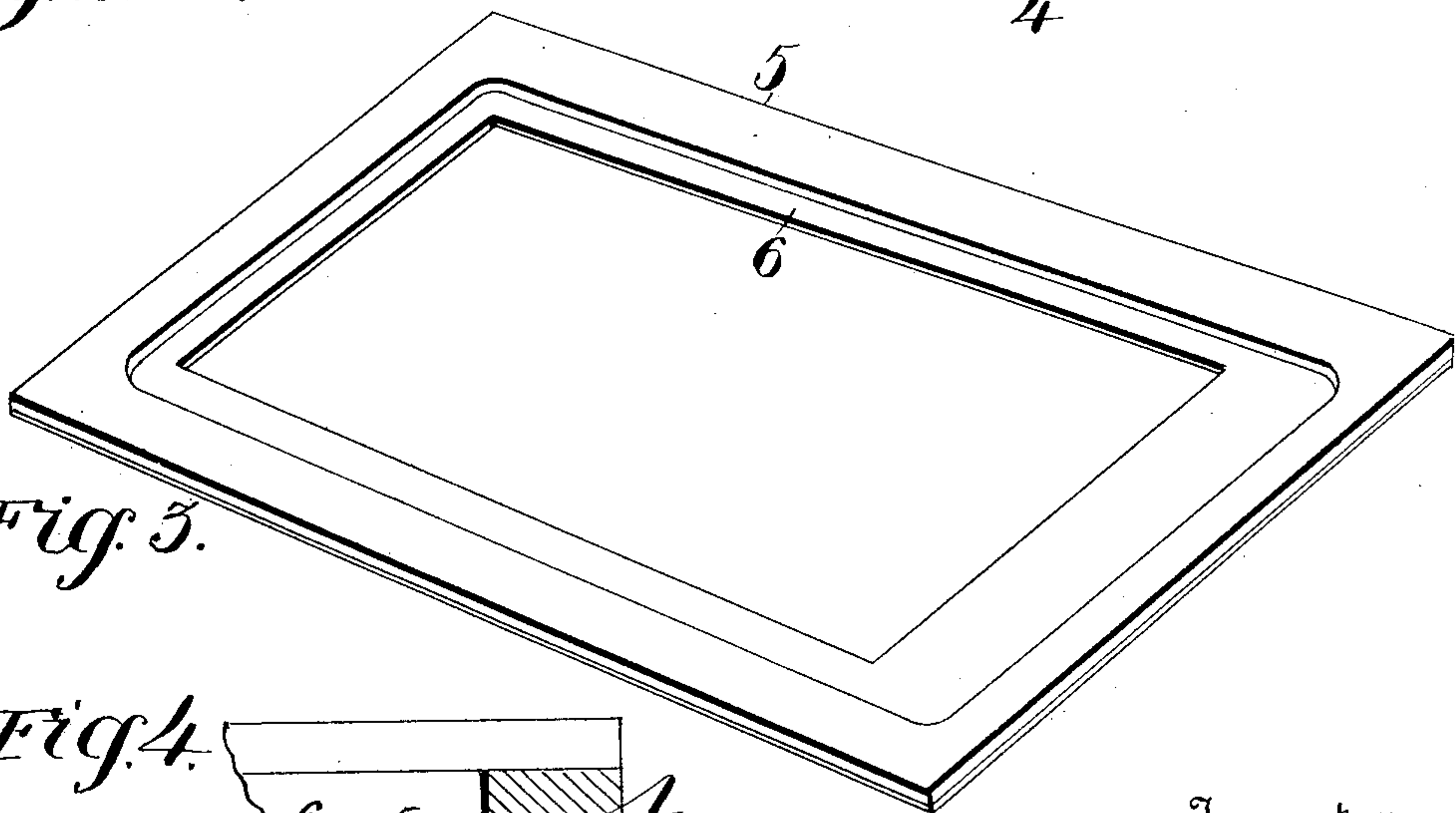
No. 465,277.

Patented Dec. 15, 1891.

*Fig. 1.*



*Fig. 2.*



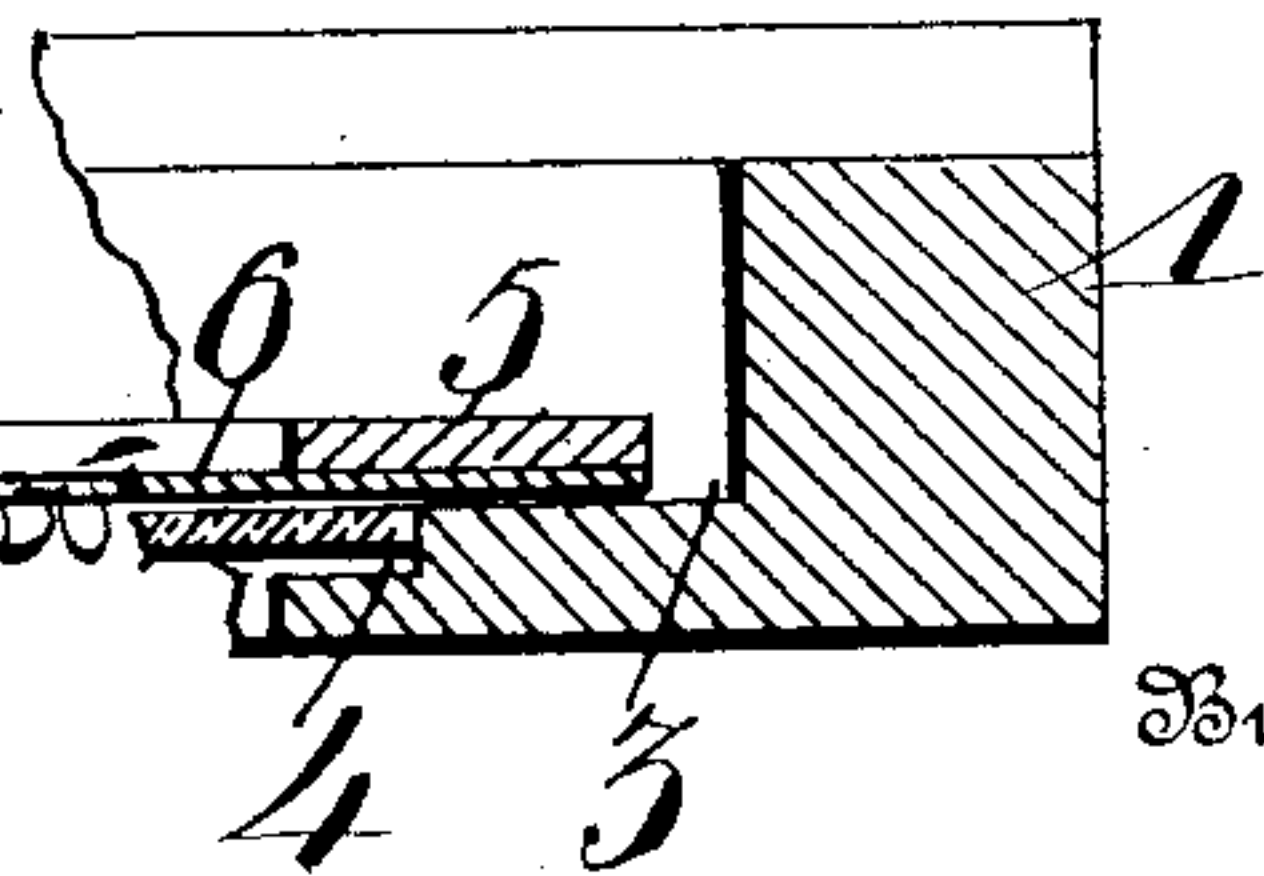
*Fig. 3.*

*Fig. 4.*

Witnesses

*V. J. Holl*

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By *his* Attorneys *Higdon & Higdon*



# UNITED STATES PATENT OFFICE.

HENRY KUHN, OF SPRINGFIELD, MISSOURI.

## PHOTOGRAPHIC-PRINTING FRAME.

SPECIFICATION forming part of Letters Patent No. 465,277, dated December 15, 1891.

Application filed April 2, 1891. Serial No. 387,405. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY KUHN, of the city of Springfield, Greene county, and State of Missouri, have invented certain new and useful Improvements in Photographic-Printing Frames for Printing Direct Upon Sensitized Paper or Card-Board, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention relates to improvements in photographic-printing frames for printing direct upon sensitized paper or card-board; and it consists in the novel arrangement and combination of parts, as will be more fully hereinafter described, and designated in the claims.

In the drawings, Figure 1 is a rear plan view of my complete invention. Fig. 2 is a longitudinal section taken on the line  $xx$  of Fig. 1. Fig. 3 is a perspective view, detached, of a skeleton frame for making a margin upon photographs which I employ in carrying out my invention; and Fig. 4 is an enlarged detail sectional view of one end of the frame.

The object of my invention is to construct a printing-frame for printing direct from the negative upon the sensitized card-board or paper and also simultaneously with printing form the desired margin or print the photographer's name or any desired printing upon said card-board or sensitized paper.

It is well known in the photographic art that the usual custom has been to print direct upon the sensitized paper and then paste the print upon the card-board or mount.

The object of my invention is to facilitate printing by forming the image direct upon the sensitized card-board.

Referring to the drawings, 1 indicates the printing-frame, and 2 the back of the same, the latter of which is of the ordinary construction. Said frame is provided with an inner peripheral flange 3, on which the back is adapted to rest, and also with a similar flange or recess 4, in which the negative is adapted to fit.

5 indicates a skeleton frame, one side of which is provided with a sheet or layer 6, formed of any substance which precludes the rays of light and thereby prevents the sensi-

tized paper or card-board from being acted on, and consequently will produce a margin on said sensitized paper or card-board. The inner periphery of said skeleton frame 5 should correspond in size to the card-board or mount, and the sheet 6 may project inwardly, as shown in the drawings, any distance, corresponding of course to the width of margin formed. In forming the margin the sensitized card-board or mount should be placed in said skeleton frame 5 and be superposed on the sheet 6.

The frame 5 is adapted to rest on the flange 3, and may be secured in any desired adjustment thereon by any suitable means, preferably, however, as shown in the drawings.

By inspecting the drawings it can be perceived that I hold the skeleton frame 5 in its appropriate location and in any desired adjustment by means of clamps 7, which clamps are provided with semi-elliptic springs, of the construction, as used, for holding the backs of ordinary printing-frames, and require no minute description or elucidation. In place of using clamps 7, I may connect said clamps by means of pieces 8, as shown in dotted lines in Fig. 1, and thus construct a separate frame, which is adapted to rest and be supported by the flange 3; but, however, I do not wish to limit myself to the mechanical construction above stated for holding the skeleton frame 5. It may be further observed that in place of permitting clamps 7 to be detachable I may hinge the same by means of hinges 10 to the end pieces of the printing-frame, as shown in dotted lines in Fig. 1. For further elucidation, it may be observed that most all of said skeleton frame and the space which it incloses may be covered with any sheet of material which precludes the rays of light, such as 6. For instance, if it is desired to print only the name of the photographer on the bottom of a sensitized card-board of course it will require a special negative for that purpose, and all of said skeleton frame should be covered with a sheet of such material, except the portion which lies under the engraving or image on the negative.

The back 2 of the printing-frame is of the ordinary construction, but should be made of such a size as to fit in between the clamps 7



or whatever mechanism is used for holding the skeleton frame 5.

From the foregoing description it can readily be perceived that the essential features of my invention are in constructing a frame and providing the same with an inner peripheral flange 3 for supporting the back of the same, and a flange 4, formed on flange 3 and extending below the surface of the same, for supporting the negative-plate, and also in employing a skeleton frame, such as 5, made of such dimensions as to hold the mount or card-board, said frame having a flange 6 thereon adapted to project over the edges of the mount and to form a margin thereon by preventing the light from striking said edges during the process of printing.

Having fully described my invention, what I claim is—

1. In a photographic-printing frame, the combination, with a frame 1, having a flange upon which the negative is adapted to rest, of a skeleton frame 5 for the reception of the sensitized paper or card-board, a flange 6 on said frame 5, the said flange resting over the negative, whereby a margin is formed on the print, and means for holding the skeleton

frame on the negative, substantially as described.

2. The combination of a printing-frame provided with a flange 3 for supporting the back of the frame, a flange 4 for holding the negative-plate, a skeleton frame 5, adapted to rest on said negative-plate, a flange 6 for producing the margin on the sensitized paper or card-board, and means for holding said skeleton frame 5 on the negative-plate in any desired adjustment, substantially as set forth.

3. The combination of a printing-frame provided with a flange 3 for supporting the back of the frame, a flange 4 for holding the negative-plate, a skeleton frame 5, adapted to rest on said negative-plate, a flange 6 for producing the margin on the sensitized paper or card-board, and clamps 7 for holding said skeleton frame in any desired adjustment on the negative, substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

HENRY KUHN.

Witnesses:

BENJ. J. KLENE,  
C. F. KEELER.