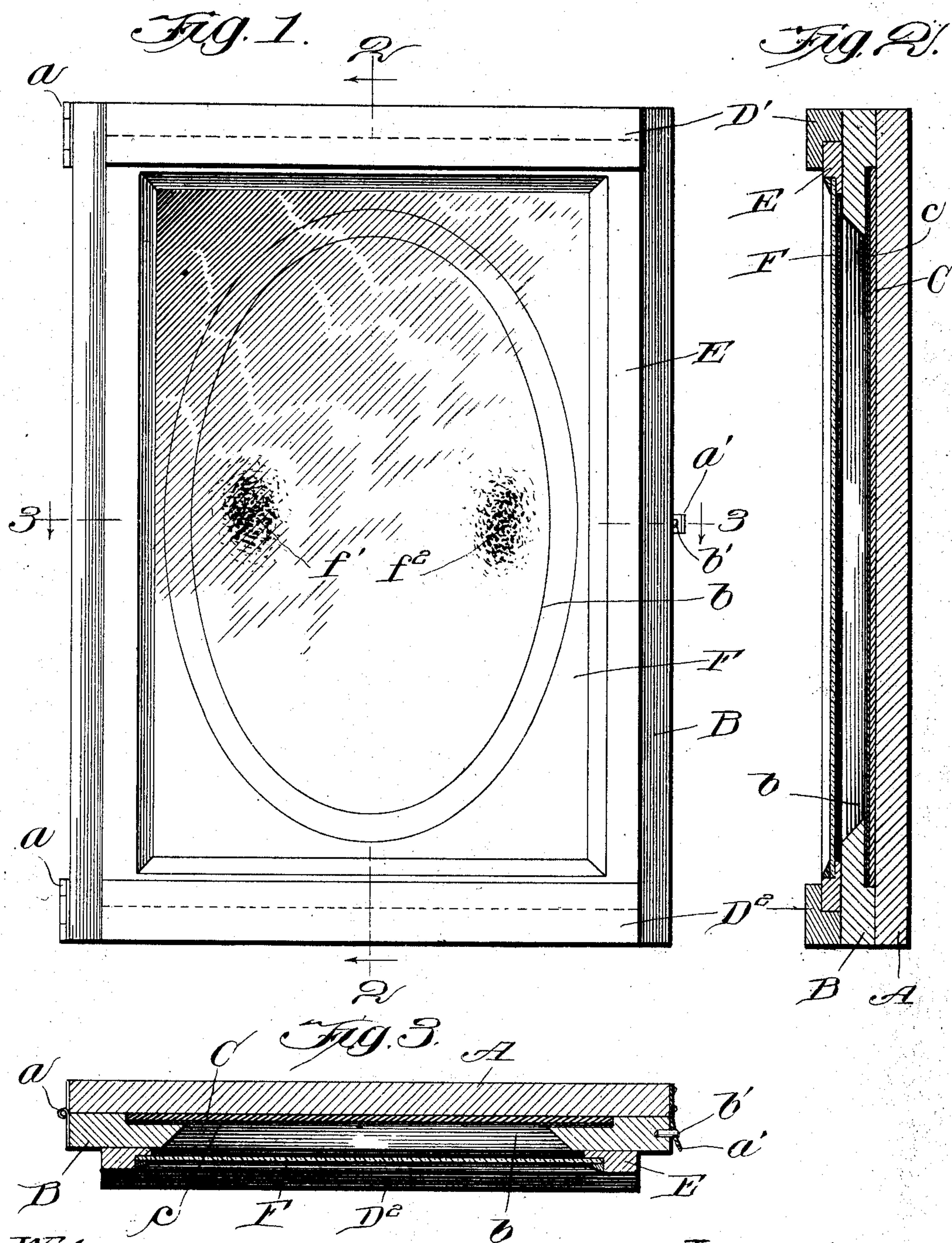


No. 885,637.

PATENTED APR. 21, 1908.

J. NELSON.
PHOTOGRAPHIC PRINTING FRAME.
APPLICATION FILED AUG. 2, 1906.



Witnesses:
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UNITED STATES PATENT OFFICE.

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PHOTOGRAPHIC-PRINTING FRAME.

No. 885,637.

Specification of Letters Patent.

Patented April 21, 1908.

Application filed August 2, 1906. Serial No. 328,917.

To all whom it may concern:

Be it known that I, JOSEPH NELSON, a citizen of the United States, residing at Chicago, county of Cook, State of Illinois, have invented a certain new and useful Improvement in Photographic-Printing Frames, and declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates in general to the reproduction of pictures and more particularly to a frame for holding sensitized paper upon which a print is to be made.

A well known method of reproducing pictures is to make a negative from the original picture, to insert such negative in a printing camera, and to expose sensitized paper to the light passing through the negative.

In making portraits or other reproductions of pictures such as photographs, it is desirable that the back-ground of the reproduction should have a circular, oval or other attractive shape in order that its appearance may be improved. Heretofore it has been the usual practice to paste upon the negative a piece of paper having an opening therethrough of the shape desired to be imparted to the back-ground of the reproduced picture. The paper obstructs the passage of light through the portion of the negative covered thereby so that the sensitized paper is affected only by the light passing through the uncovered portion of the negative. This practice is objectionable as it requires a different size or shape of opening in the paper for each size of picture which is to be reproduced. It is also frequently desirable in reproducing pictures to either suppress the back-ground of the original picture or to so diffuse the light passing to the sensitized paper as to produce a back-ground with a softened effect.

The primary object of my invention is to provide a printing frame for holding the sensitized paper in position to receive the light passing through a negative in a printing camera which will so protect the outer portion of the paper from the light that a predetermined outline may be imparted to the back-ground of the print.

A further object of my invention is to provide a printing frame for holding sensitized

paper in position to receive the light passing through a negative in a printing camera, which will also serve to support a diffusing plate in front of the paper to produce a back-ground on the print having a softened effect.

A still further object of my invention is to provide a photographic printing frame which will be simple in construction, comparatively inexpensive in manufacture and efficient in use.

The embodiment of my invention herein disclosed may be generally described as consisting of a frame having a space to receive a piece of sensitized paper, a door hinged to the frame and having an opening therein of predetermined shape, and supports secured to the frame for holding a diffusing plate in front of the paper.

My invention will be more fully described hereinafter with reference to the accompanying drawing in which the same is illustrated as embodied in a convenient and practical form, and in which

Figure 1 is a front elevational view; Fig. 2 a vertical sectional view on line 2—2 Fig. 1; and Fig. 3 a horizontal sectional view on line 3—3 Fig. 1.

The same reference characters are used to designate the same parts in the several figures of the drawing.

Reference character A designates the back of the frame which may be made of any desired size and of any suitable material, such for instance as wood.

B designates a door movably secured to the back A of the frame in any suitable manner, as by means of hinges *a*. The door B has an opening *b* therethrough of desired shape, preferably, however, oval.

Any suitable fastening device may be provided for retaining the door closed against the back of the frame, as for instance a resilient clasp *a'* secured to the back A and having an opening therein adapted to surround a pin *b'* secured to the edge of the door.

The inner surface of the door B is slightly countersunk to receive a piece of sensitized paper *c*. A back C is also preferably located within the recess within the door to securely hold the paper in place when the door is closed against the back of the frame.

Guides *D'* and *D''* are secured to the upper and lower portions of the door B. These

guides may be of any desired construction and are adapted to support a frame E which surrounds and holds a diffusing plate F.

5 The diffusing plate F may conveniently be formed of glass and has portions thereof, as f' and f'' , rendered substantially opaque in any suitable manner.

10 The operation and manner of using my improvement are as follows. The piece of sensitized paper is interposed between the back A of the frame and the door B. The door overlies the outer portion of the paper so that only a portion thereof corresponding to the opening in the door will be exposed to the
15 light. The frame containing the sensitized paper is placed in proper focus in front of a printing camera containing the negative of a picture which is to be reproduced. The light passing through the negative acts upon the
20 sensitized paper making a print corresponding to the original picture, but of a size depending upon the focus of the camera. The portion of the paper which is covered by the door of the frame is unaffected by the light
25 so that the resulting print has a back-ground of a shape conforming to the opening through the door.

When it is desired to modify the back-ground of the original picture the diffusing
30 plate F is supported between the guides D' and D'' in front of the sensitized paper. The substantially opaque portions of the diffusing plate partially obstructs the passage of light to the under-lying portions of the paper
35 thereby producing a back-ground having a softened effect.

From the foregoing description it will be

observed that I have invented an improved frame for use in reproducing pictures by means of which the desired outline may be
40 imparted to the back-ground of the print without securing to the negative a piece of paper conforming to the outline desired to be given the background of the print. It will
45 be further observed that my improved printing frame also serves to support a diffusing plate in front of the sensitized paper so as to soften the back-ground or to suppress portions of the back-ground of the original picture.
50

Having now fully described my invention, what I claim as new and desire to secure by Letters Patent is:

In combination, a printing frame, a door hinged to said frame and overlying it, there
55 being a space between said door and frame to receive and hold a sensitized sheet, said door having an opening therethrough corresponding in shape to the contour of the back-ground desired to be imparted to the print,
60 guides on said door and a diffusing plate arranged in said guides and covering the opening through the door, said door and frame being so related to each other that when the sensitized sheet is inserted and the door is
65 closed against the frame the sheet is securely clamped in place.

In testimony whereof, I sign this specification in the presence of two witnesses.

JOSEPH NELSON.

Witnesses:

C. E. SHEPARD,
E. H. WALKER.