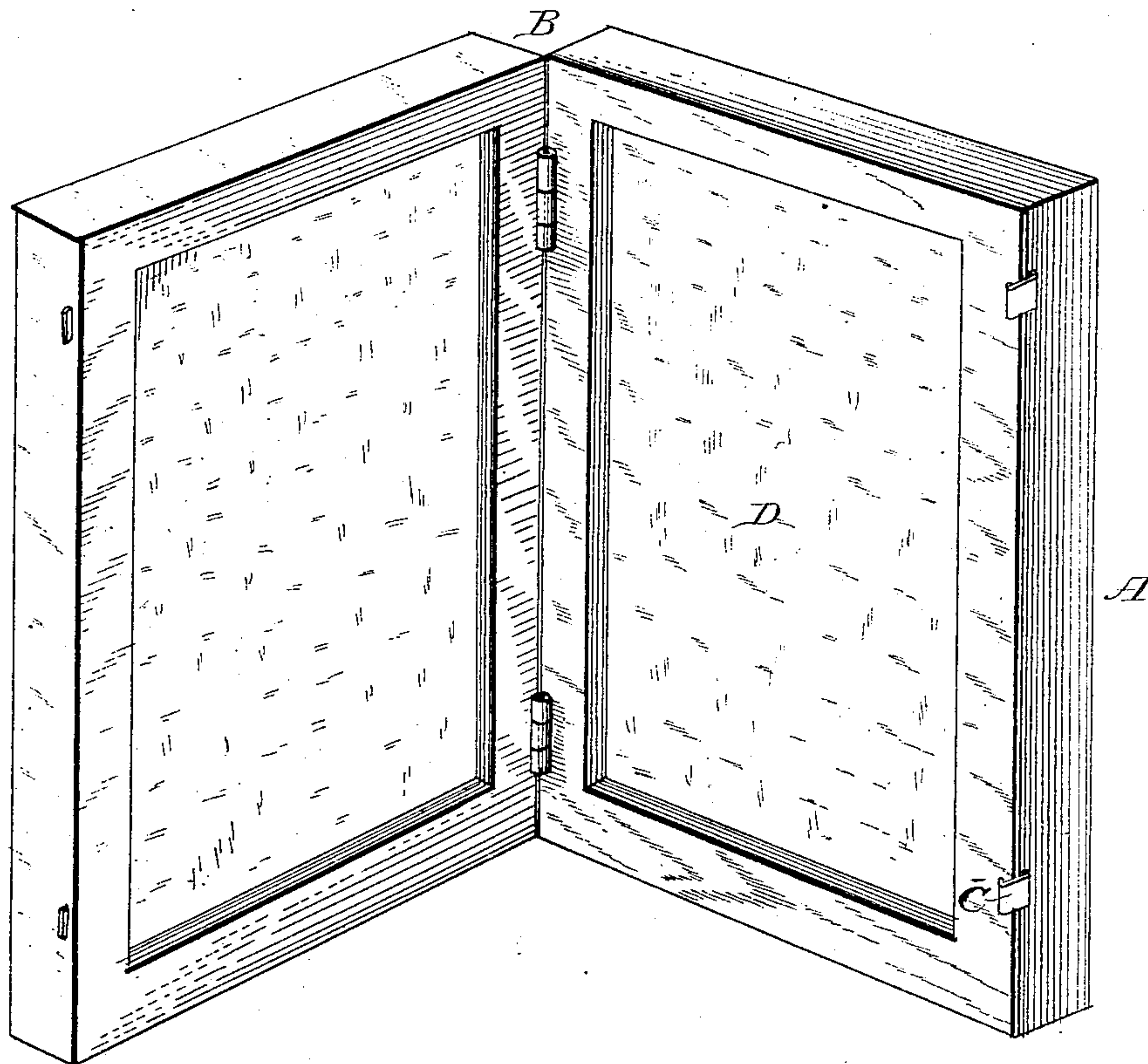


(No Model.)

D. N. CARVALHO.
Photographic Printing Frame.

No. 237,248.

Patented Feb. 1, 1881.



Attest;
J. Walter Fowler,
Chas. B. Gill

Inventor;
David N. Carvalho,
By his Atty,
J. Cox and Co.

UNITED STATES PATENT OFFICE.

DAVID N. CARVALHO, OF NEW YORK, N. Y., ASSIGNOR TO THE CELLULOID MANUFACTURING COMPANY, OF SAME PLACE.

PHOTOGRAPHIC PRINTING-FRAME.

SPECIFICATION forming part of Letters Patent No. 237,248, dated February 1, 1881.

Application filed November 23, 1880. (No model.)

To all whom it may concern:

Be it known that I, DAVID N. CARVALHO, of New York, in the county of New York and State of New York, have invented a new and useful Improvement in Photographic Printing-Frames, of which the following is a specification, reference being had to the accompanying drawing.

The invention relates to improvements in that class of printing or pressureframes known as "photographic printing-frames." As now constructed the printing-frame used in the photographic art consists of a shallow box of quadrangular shape, in which the sensitized paper and negative are placed and locked. It being essential that the print be examined during exposure, the frame is provided with a back formed in two sections, which are hinged together, and which are locked, to effect the necessary pressure, by means of buttons or springs. When it is desired to examine the picture one of the sections of the back is raised and the print lifted away from the negative. The frame now in use has all of these parts, and is also provided with a front, the central part of which is removed, forming an oval or other shape, which is covered, when the frame is being used, with paper of non-actinic color or other material, to stop out the light entering, save at the opening cut in it. There are many objections to this class of vignetting-frames, and their use has long been a source of loss and annoyance to photographers. The fact that the print can only be examined by removing the spring or button and lifting a section of the back is a serious objection, and necessarily very frequently results in breaking or injuring the negative, or prejudicially affecting the character of the print. The tissue-paper usually employed is liable to constant injury, especially by rain or by moisture in the atmosphere, and its application is inconvenient and vexatious.

By means of my invention I am enabled to partially obviate these difficulties, as well as others, and to produce a vignetting-frame which enables me to obtain a better result

than has heretofore been obtained by the use of the frames generally employed, besides providing a frame which is more convenient, more durable, and in every way more desirable than those heretofore known.

The essential novelty of my invention consists in the employment of a vignetting-frame, in which a piece or sheet of translucent celluloid of non-actinic color is employed to form a face for the frame. In other respects the frame will be the same as that now in use, hereinbefore described, the improvement consisting in the use, on the face, of translucent celluloid or other analogous plastic material.

In the accompanying drawing I have shown an embodiment of my invention. A denotes the outer parts of the frame; B, the hinged sections which form the back; C, the springs or buttons, and D the face, of translucent celluloid or analogous plastic material of non-actinic color.

The construction of the frame will be readily understood by those skilled in the art to which the invention relates, and need not be specifically described.

It is obvious that, the face of the frame being of transparent color, the picture may be examined without always unlocking the parts.

I contemplate using sheets of an orange color; but do not confine myself to any particular color, the only essential consideration being that it shall be non-actinic.

What I claim as my invention, and desire to secure by Letters Patent, is—

A photographic printing-frame in which the front consists of a sheet of celluloid or other analogous plastic material of non-actinic color, substantially as set forth.

In testimony that I claim the foregoing improvement in photographic printing-frames, as above described, I have hereunto set my hand this 12th day of November, 1880.

DAVID N. CARVALHO.

Witnesses:

R. B. LAWRENCE,
CHAS. C. GILL.