

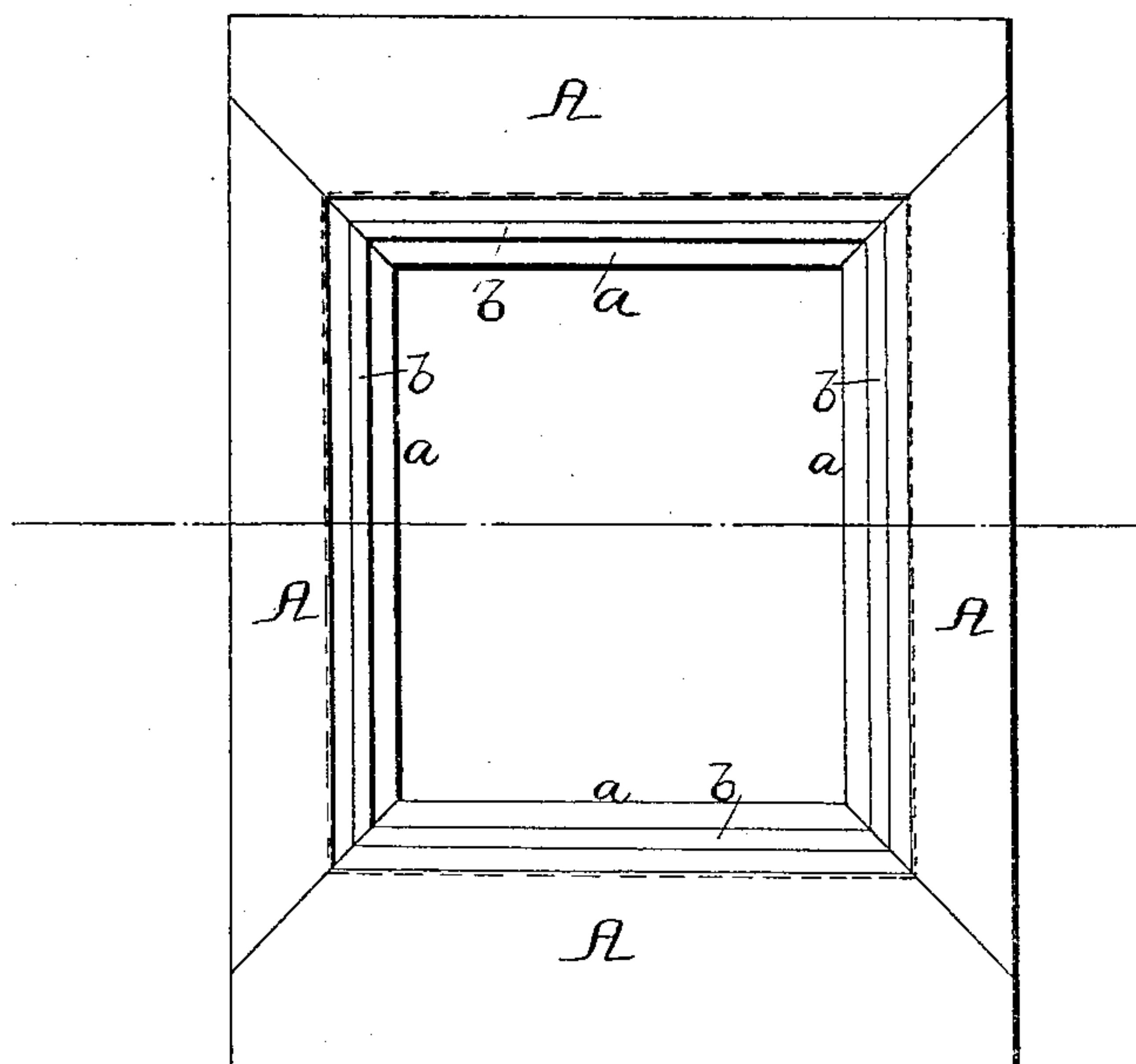
*A. D. Bollen's.*

*Photographic Plate-Holder.*

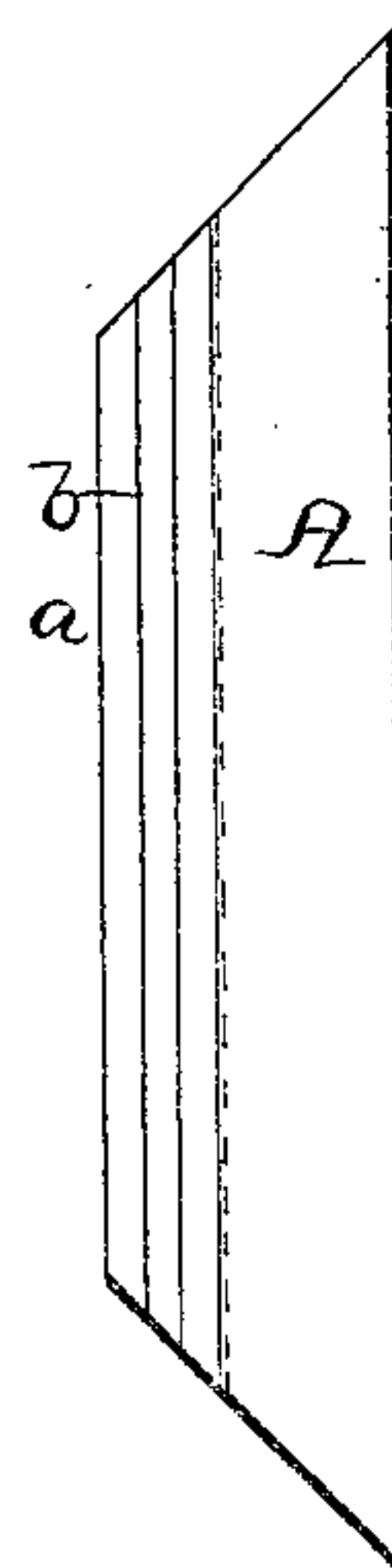
*N<sup>o</sup> 20,401*

*Patented June, 1858.*

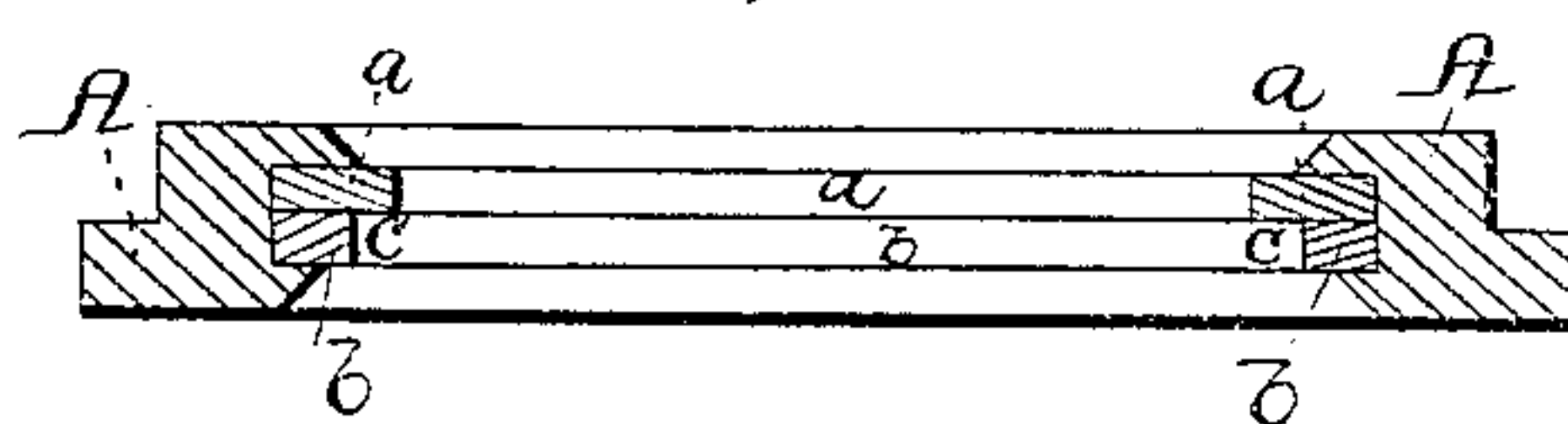
*Fig; 1.*



*Fig; 3.*



*Fig; 2.*



# UNITED STATES PATENT OFFICE.

A. D. BOLLENS, OF NEWBURGH, NEW YORK.

## PLATE-HOLDER FOR PHOTOGRAPHIC CAMERAS.

Specification of Letters Patent No. 20,401, dated June 1, 1858.

*To all whom it may concern:*

Be it known that I, AREND D. BOLLENS, of Newburgh, in the county of Orange and State of New York, have invented a new and useful Improvement in Plate-Holders for Photographic Cameras; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a front view of the frame which receives the glass or other sensitively prepared plate. Fig. 2 is a section of the same. Fig. 3 is a front view of one of the sides of the frame.

Similar letters of reference indicate corresponding parts in the several figures.

This invention consists in a novel method of constructing a continuous glass lining and fitting and securing the same in the plate holder to form a seat for the glass or other plate, to prevent the chemicals with which said plate is prepared from coming in contact with the wood or other material of which the frame is made and thereby causing discoloration.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

A, is the frame of the plate-holder, represented as being of wood made in four pieces which are mitered together. *a a b b*, is the continuous glass lining of the said frame, made in eight pieces, each piece consisting of a strip of sheet or window glass, four of said pieces *a, a*, being wider than the other four *b, b*, and one of the narrower pieces *b, b*, and one of the wider pieces *a, a*, being placed together tightly in a groove *d*, cut to receive them in each side of the frame A, so that they combine to make a rabbet-shaped seat *c, c*, all around the frame as shown best in Fig. 2, of a proper size to receive the photographic plate. The pieces

*a, a*, and *b, b*, are mitered together at their ends, as shown in the corners of Fig. 1, to correspond with the mitering of the frame A; and by that means, when the sides of the frame A are glued or otherwise secured together, the pieces hold one another securely in place in the grooves of the frame. Each pair of pieces *a b*, is put into its respective side of the frame as shown in Fig. 3, before putting the sides together. I prefer to cement together the two pieces *a, b*, constituting each side of the frame with some suitable adhesive material before inserting them but this is not absolutely necessary as if the pieces are all of proper length and properly mitered, they cannot fail to confine each other when the sides of the frame are put together.

The above construction of the glass lining of the frame not only gives the advantage of a continuous bearing all around the edges of the plate, but makes the frame cheaper than when the solid glass corners are used, as there is some difficulty in casting the said corners, many of them flying and warping in the cooling and becoming worthless; while the pieces *a, a*, and *b, b*, may be made of waste window glass, and consequently cost but little more than the expense of cutting the corners. The reduction of cost is not however so great an advantage as the additional security of the lining, which cannot fall out of the frame, as the glass corners will do after some use of the frame.

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

The continuous glass lining *a a b b*, of the frame, constructed and fitted and secured in the frame in the manner substantially as herein specified.

AREND D. BOLLENS.

Witnesses:

THOMAS M. PECK,  
JOHN S. THAYER.