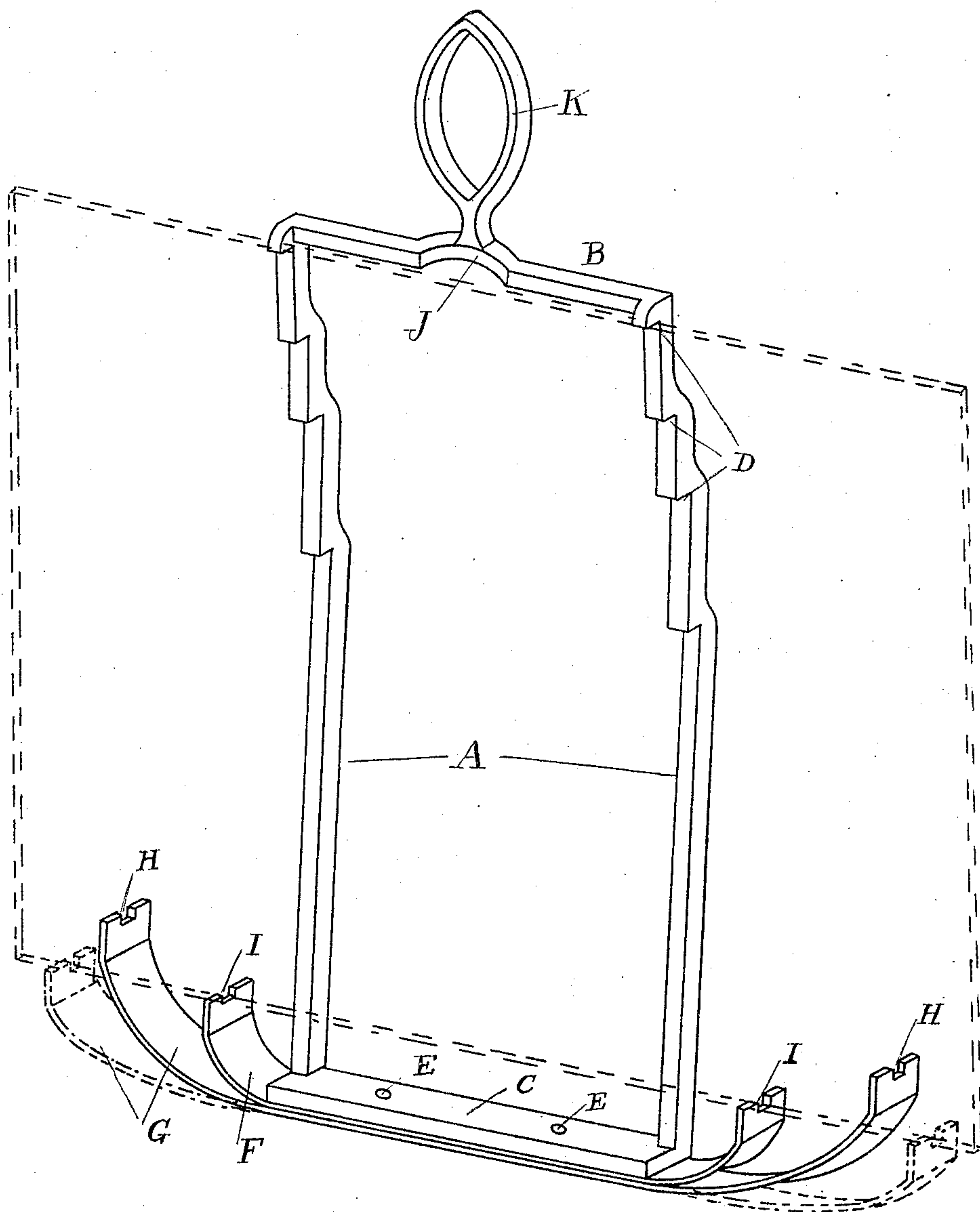


(No Model.)

H. L. CHENERY.
PHOTOGRAPHIC PLATE DIPPER.

No. 574,879.

Patented Jan. 12, 1897.



Witnesses:

W. H. Clifford Jr.
E. B. Gardner.

Inventor.

Henry L. Cheney
by
Vernon Clifford
his attorney.

UNITED STATES PATENT OFFICE.

HENRY L. CHENERY, OF DEERING, MAINE.

PHOTOGRAPHIC-PLATE DIPPER.

SPECIFICATION forming part of Letters Patent No. 574,879, dated January 12, 1897.

Application filed March 30, 1896. Serial No. 585,506. (No model.)

To all whom it may concern:

Be it known that I, HENRY L. CHENERY, a citizen of the United States, residing at Deering, in the county of Cumberland and State of Maine, have invented certain new and useful Improvements in Plate-Holders; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in holders for photographic plates and is especially adapted for the easy manipulation of plates in the developing-pan, wash-bath, and hypo solution and may be as readily used as a drying-rack, saving thereby the usual amount of fingering and handling that formerly has been necessary in the process of developing a negative.

It consists of a rectangular frame provided with notches at regular distances to receive one edge of a plate and a series of flat springs also provided with notches and adapted to receive the bottom edge of the plate, and in certain other details of construction which will be hereinafter more fully set forth.

In the drawing herewith accompanying and forming a part of this application the figure represents a perspective view of my improved holder, the dotted lines showing a plate in position and the position the springs assume when a plate is in position.

Same letters refer to like parts.

In said drawing, A represents two uprights, joined at their top and bottom ends by cross-pieces B and C, respectively, and provided with similar shoulders D, the shoulders on one upright corresponding to the shoulders on the other and each series higher or more distant from the base C, overhanging the one next below, thus being enabled to receive and hold firmly plates varying in size from one commonly known as a "four-by-five" plate to one commonly known as an "eight-by-ten." Attached to the bottom C of the rectangular frame by means of rivets E and firmly attached thereto are flat springs F and G. I usually attach these springs to the base in order that plates varying in size may be more easily inserted in the holder. As the inner spring F does not extend so far outwardly or upwardly as the outer spring, a plate too large for the inner spring can be fitted into the notches H in the spring G, the

spring G pushed downwardly so as to allow the plate to fit within the shoulders, so that all the pressure is brought upon the plate by the spring G, the spring F not bearing at all against the edge of it. The top of the holder is cut away, as at J, so as to allow the thumb to be inserted under the plate to easily remove it from the holder and also to allow a plate of the largest size to be easily fitted into the holder.

The operation of my improved device is as follows: After the plate has been exposed and removed from the camera plate-holder the plate is then placed within the notch in the springs attached to the bottom of this holder, the spring pushed downwardly, and the plate allowed to rest against the shoulders formed on the upright portions. The holder containing the plate can then be put into the developing-pan, into the wash-bath, and into the hypo solution, and also washed and hung up without touching the plate itself at all, thereby reducing to a minimum the danger of scarring and scratching the film on the plate and preventing the consequent frilling thereof.

The advantages of my improved holder are that it is cheap to construct and simple in its use.

Having thus described my invention and its use, I claim—

1. In a plate-holder in combination, a rectangular frame provided with shoulders on its sides and springs attached thereto and provided with notches in the end for the reception of the plate, an offset in the top of said frame and means for holding the said frame as desired, substantially as and for the purposes set forth.

2. In a plate-holder in combination, a rectangular frame provided with shoulders on two sides each series overhanging the one next below, springs attached to the bottom of said frame and provided with notches in their ends for the reception of a plate, an offset in the top of said frame and means for holding the said frame, substantially as and for the purposes set forth.

In testimony whereof I affix my signature, in presence of two witnesses, this 28th day of March, A. D. 1896.

HENRY L. CHENERY.

Witnesses:

ELGIN C. VERRILL,
NATHAN CLIFFORD.