No. 717,313. Patented Dec. 30, 1902.

G. W. ARKLAND.

PHOTOGRAPHIC PLATE HOLDER.

(Application filed June 28, 1902.)

(No Model.)

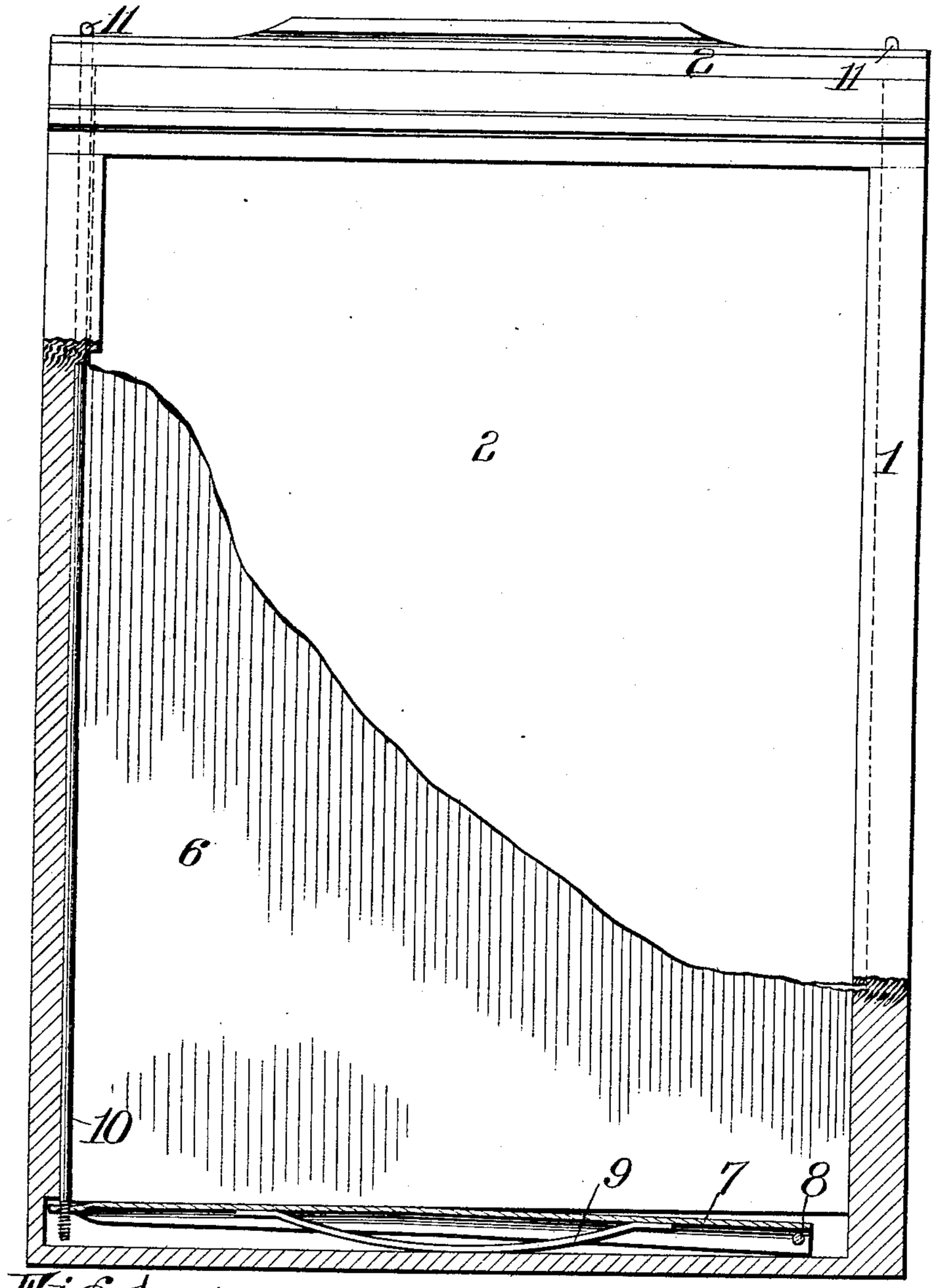

Fig. 1.

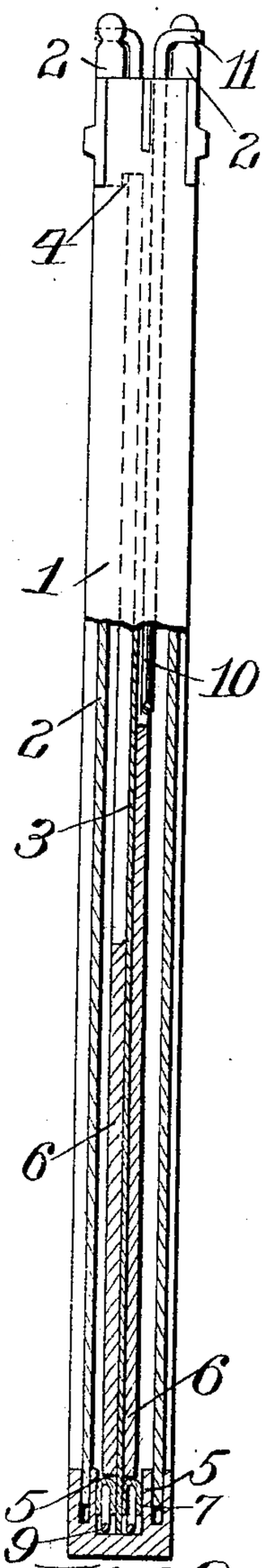

Fig. 2.

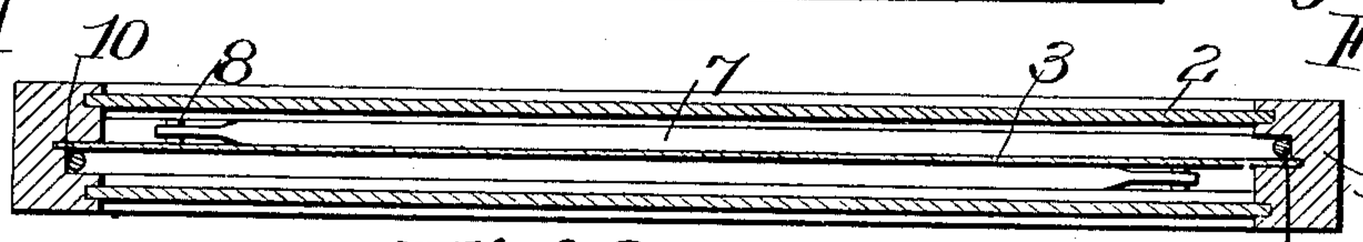

Fig. 3.

Witnesses.
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UNITED STATES PATENT OFFICE.

GEORGE W. ARKLAND, OF ROCHESTER, NEW YORK, ASSIGNOR TO THE WARNICA COMPANY, OF ROCHESTER, NEW YORK, A CORPORATION OF NEW YORK.

PHOTOGRAPHIC-PLATE HOLDER.

SPECIFICATION forming part of Letters Patent No. 717,313, dated December 30, 1902.

Application filed June 28, 1902. Serial No. 113,628. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. ARKLAND, of Rochester, in the county of Monroe and State of New York, have invented certain new and useful Improvements in Photographic-Plate Holders; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, and to the reference-numerals marked thereon.

My invention relates to improvements in photographic-plate holders, and has for its object to provide simple and cheap means for not only securing and releasing the plate, but to provide as well a lock for the slide, all as hereinafter described, the novel features being pointed out in the claims at the end of the specification.

In the drawings, Figure 1 is a front elevation of a plate-holder embodying my improvements, partly in section. Fig. 2 is a vertical sectional view, and Fig. 3 is a cross-sectional view.

Similar reference-numerals in the three figures indicate similar parts.

In the present embodiment of my invention I have shown it applied to the ordinary double plate-holder, 1 indicating the frame, 2 the slides, and 3 the septum. The frame is provided at the upper and lower ends with the usual overhanging flanges 4 and 5, respectively, beneath which the ends of the plates 6 are held.

7 indicates bars arranged beneath the flanges 5, each preferably constructed of sheet metal, folded, as shown, to provide a channel in its outer side and each pivoted at one end upon screws 8 or otherwise in the recesses beneath the flanges or ledges 5.

9 indicates bow-springs beneath the bars having the ends in the channels therein and engaging at their centers with the bottom of the recesses, said springs operating to move the bars on their pivots, so as to engage the ends of the plates and move the opposite ends of the latter beneath the holding-flanges 4, thus preventing the outward movement of the plates and confining them in position in the holder.

10 indicates rotatable rods extending lengthwise of the holder at the sides of the plate-chamber, the outer portions extending through the end strips of the holder and the ends 11 being bent laterally to engage the ends of the slides when desired to lock the latter in position and preventing their withdrawal. The inner ends of the rods engage the free ends of the bars 7, preferably by being screwed therein, as shown, which normally holds them in outward position, so that the rods may be turned to cause their ends 11 to lock the slides in the holder, as will be understood, and when desired to release the plates or either of them from the holder the rods are moved longitudinally, moving the bars on their pivots and allowing the plates to move far enough to disengage their ends from the ledges or flanges 4.

It will be understood that the devices can be applied to single or double plate-holders, as desired, and inasmuch as they consist of only three parts for each plate and occupy such positions that extra and expensive fitting is not required they may be applied at a nominal expense.

I claim as my invention—

1. The combination with a plate-holder having the ledges at the end for retaining the plate and a slide, of the movable spring-operated bar beneath one of the ledges adapted to engage a plate to hold it beneath the other ledge and the longitudinally-movable and rotatable rod directly engaging said bar at one end and having the arm at one end adapted to be rotated into engagement with the slide to lock it in position.

2. The combination with a plate-holder embodying an open frame having the ledge at one end to engage a plate, and a slide for said frame, of a bar pivoted at one end in the frame opposite the ledge, a spring for operating the bar on its pivot, and a rotatable and longitudinally-movable rod extending from end to end of the holder and bearing at one

end on the bar and having at the opposite end an arm adapted to extend over and lock the slide when the rod is rotated.

3. The combination with a plate-holder embodying the open frame and a removable slide therefor, of a plate-retaining device consisting of a movable spring-operated bar arranged at one end of the frame and adapted to engage the plate, a rotatable and longitudinally-movable rod extending alongside the plate from end to end thereof connected to the bar at one end and having at its opposite end the laterally-extending arm adapted to be turned into and out of engagement with the slide to lock or release the latter.

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