

No. 707,033.

Patented Aug. 12, 1902.

A. G. STEINBRENNER.
JOURNAL BOX.

(Application filed Apr. 29, 1901.)

(No Model.)

Fig. I.

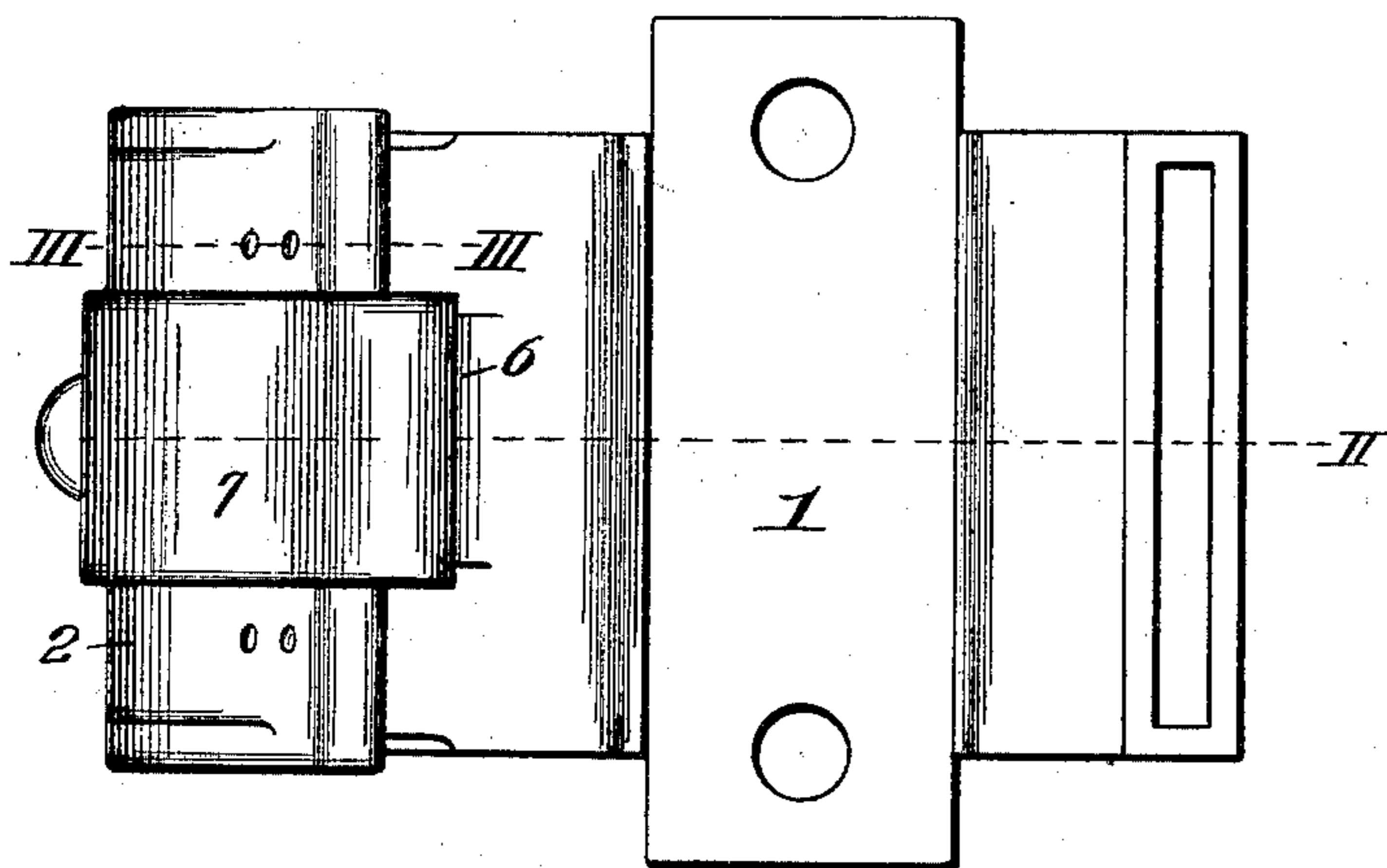


Fig. III.

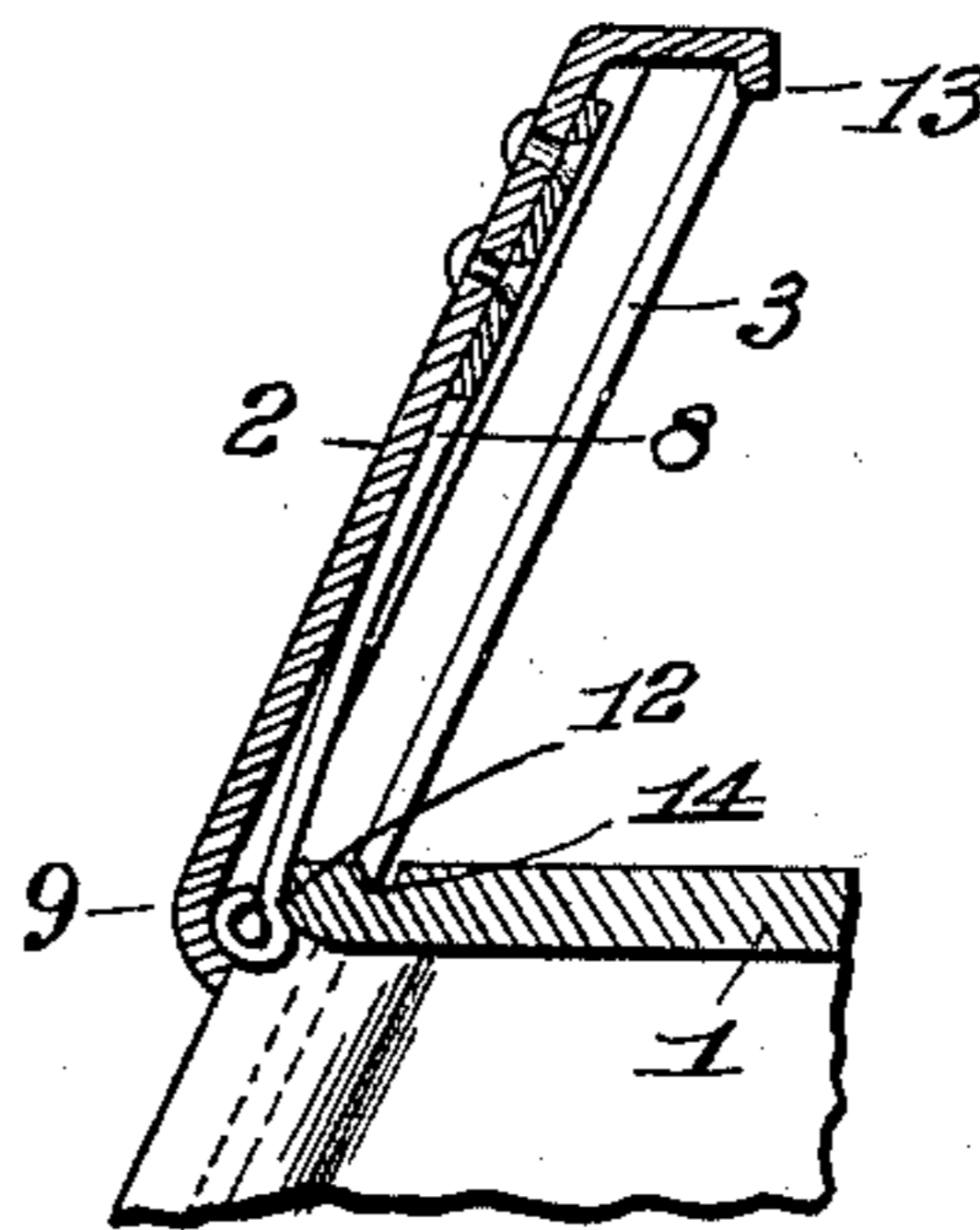


Fig. V.

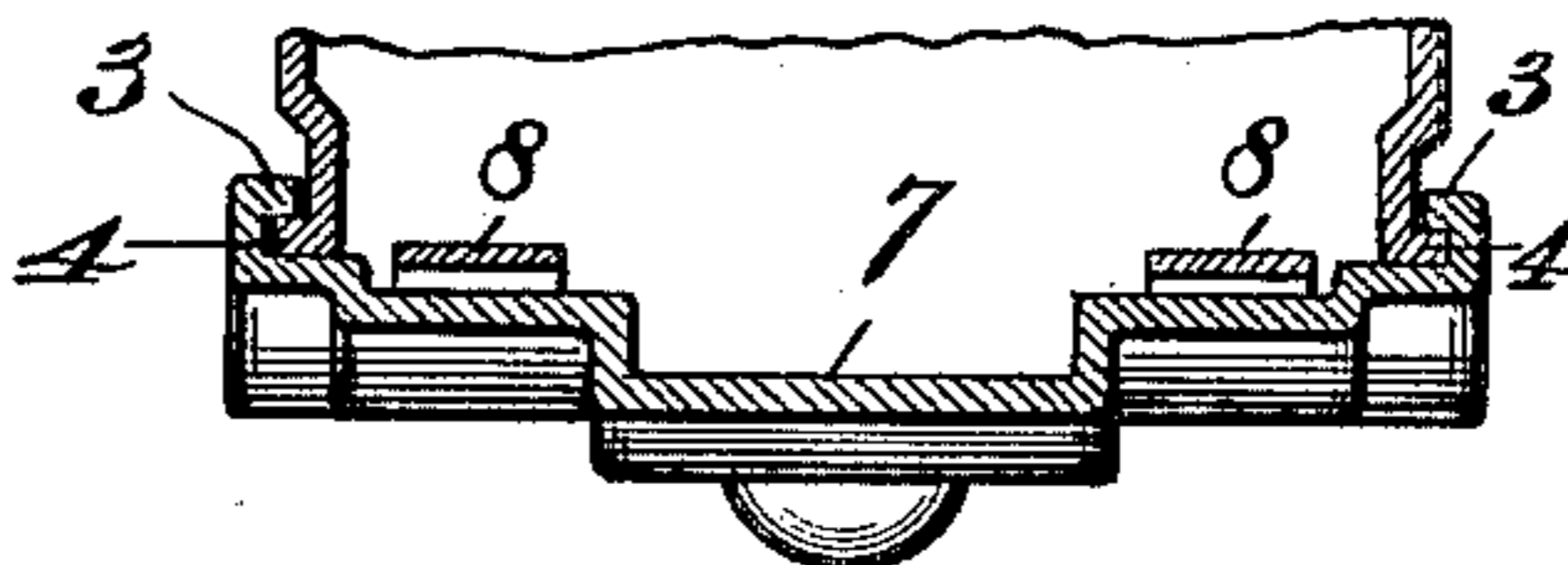


Fig. II.

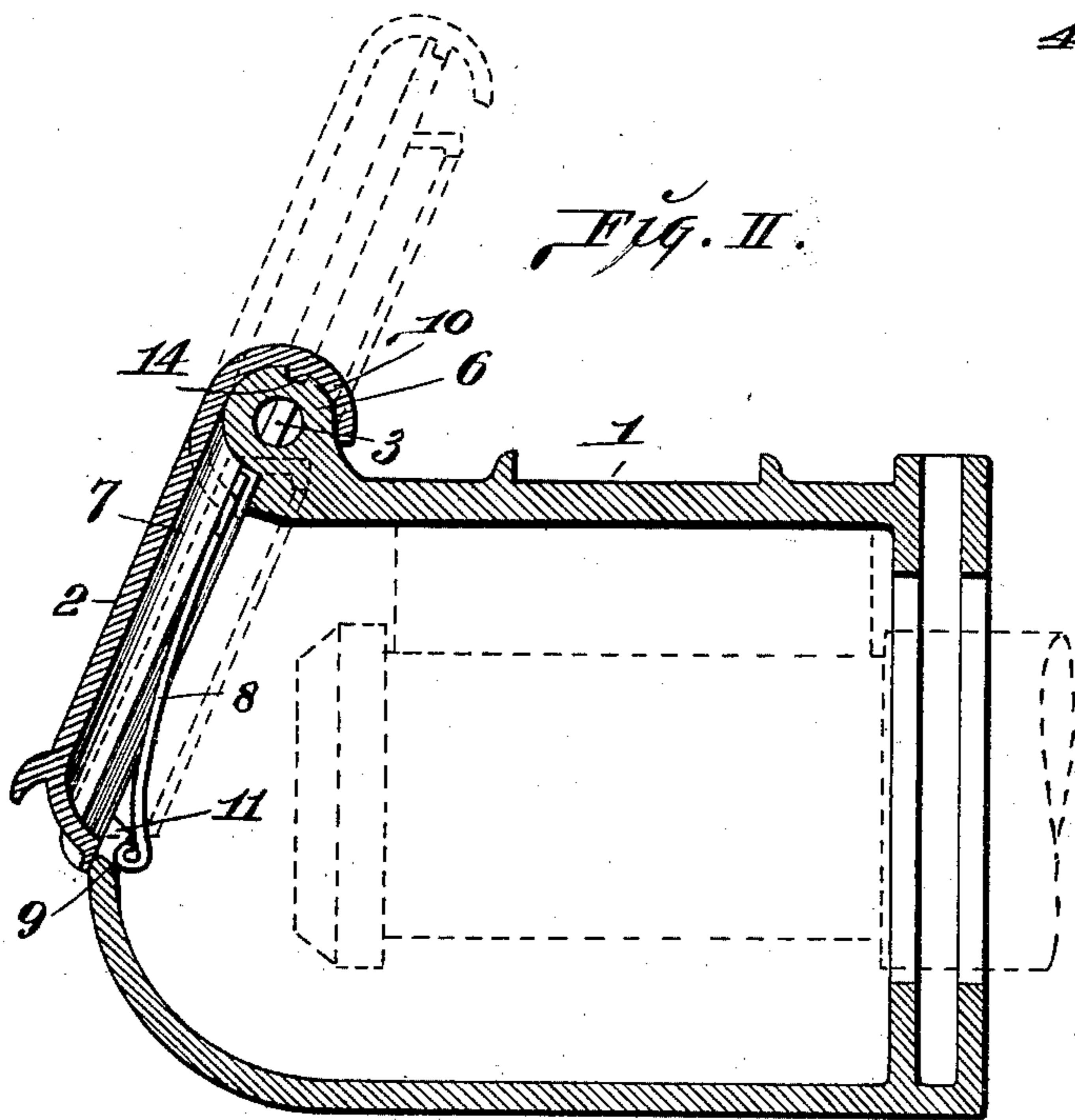
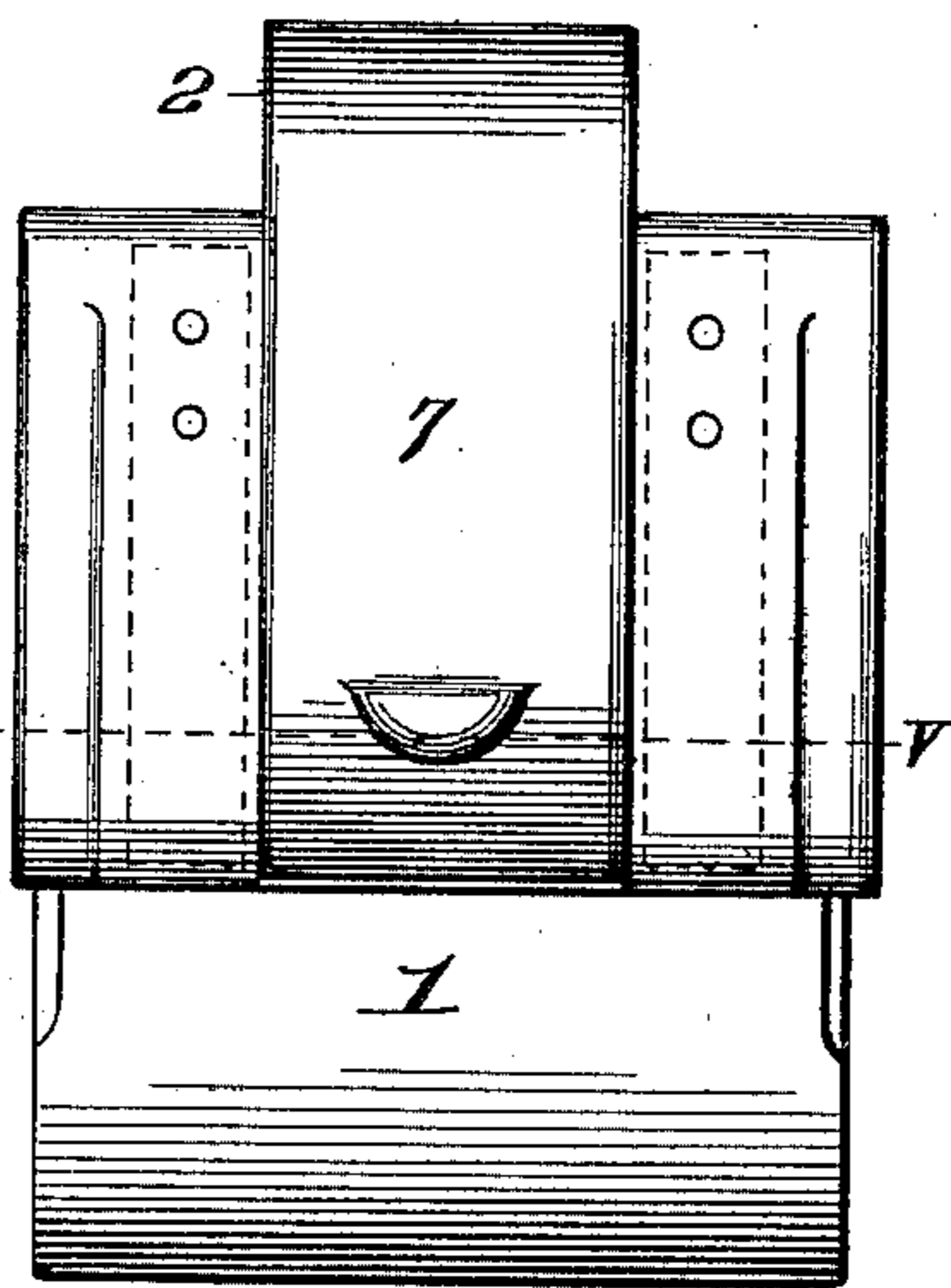


Fig. IV.



Attest:—
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UNITED STATES PATENT OFFICE.

ANDREW G. STEINBRENNER, OF ST. LOUIS, MISSOURI, ASSIGNOR OF FORTY-NINE ONE-HUNDREDTHS TO SANDFORD NORTHROP, OF ST. LOUIS, MISSOURI.

JOURNAL-BOX.

SPECIFICATION forming part of Letters Patent No. 707,033, dated August 12, 1902.

Application filed April 29, 1901. Serial No. 58,041. (No model.)

To all whom it may concern:

Be it known that I, ANDREW G. STEINBRENNER, a citizen of the United States, residing in the city of St. Louis, in the State of Missouri, have invented certain new and useful Improvements in Journal-Boxes, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

My invention relates to a journal-box for railway-cars; and the object of the invention is to provide a cap for the box which shall be inexpensive to make, effective in its operation, and which when closed is dust-proof.

My invention consists in features of novelty hereinafter fully described, and pointed out in the claims.

Figure I is a top or plan view of my improved box. Fig. II is a vertical longitudinal section taken on line II II, Fig. I. Fig. III is a detail vertical section taken on line III III, Fig. I, and showing the cap raised. Fig. IV is a front view. Fig. V is a detail horizontal section taken on line V V, Fig. IV.

Referring to the drawings, 1 represents the body of the box, and 2 the cap. The cap is adapted to be opened and closed in a plane slightly inclined rearwardly from the vertical. It is held to the box and guided in its movement by means of side inturned lips 3, engaging behind outwardly-extending flanges 4 on the outer edge of the sides of the box, as seen in Fig. V. The top of the box is provided with a central upwardly and forwardly inclined enlargement or rib 6, and the cap has a central groove 7 to receive this rib. Secured to the cap on each side of the groove 7 is a flat spring 8, the springs being connected to the cap at their upper ends, and the lower free ends of the springs are formed with bends 9, as shown in Figs. II and III. When the cap is closed, the bends 9 fit beneath shoulders 11, located on the box at the lower edge of the opening that is covered by the cap, the springs thus acting to hold the cap tightly pressed against the box, so as to produce a dust-tight joint between the cap and the box, and the engagement of the bends 9

beneath the shoulders 11 holds the cap in its closed position when the train is in motion by preventing the cap from jolting upwardly. When the cap is raised to open the box, as shown in Fig. III, the bends 9 of the springs come against a shoulder 12 on the box and limit the upward movement of the cap, and the springs at such time being forced outwardly beyond their normal positions have sufficient friction on the box to hold the cap in its raised or open position. The top of the cap is provided with a flange 13, that enters a groove 14 in the top of the box and in the top of the enlargement 6 when the cap is in its lowered position. The central part of the cap has a lip 10, that fits over the top of the rib 6 when the cap is closed.

By the use of my invention a dust-tight joint is made between the cap and the box, while the former is effective in its operation and inexpensive to produce.

I claim as my invention—

1. In a journal-box having shoulders at its top, a vertically-movable cap having a curved lip at the top, a central upward and forward inclined enlargement 6 on the box, over which the said lip is adapted to fit to make a dust-proof joint, in combination with springs provided with bends at their lower ends adapted to engage the box when the cap is closed, the bends of said springs adapted to yieldingly bear against said shoulders when the cap is raised.

2. In a journal-box, a central upward and forward enlargement 6, having a groove in the top thereof, a vertically-movable cap, a flange on the cap adapted to enter said groove when the cap is closed, lips on the side of the cap adapted to engage flanges on the box, and springs secured to the cap and adapted to engage the forward edge of the top of the box when the cap is in its open position, said springs also adapted to engage the box when the cap is in its closed position, substantially as set forth.

ANDREW G. STEINBRENNER.

In presence of—

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