

J. McNEIL.  
PAPER ROLL HOLDER.  
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899,461.

Patented Sept. 22, 1908.

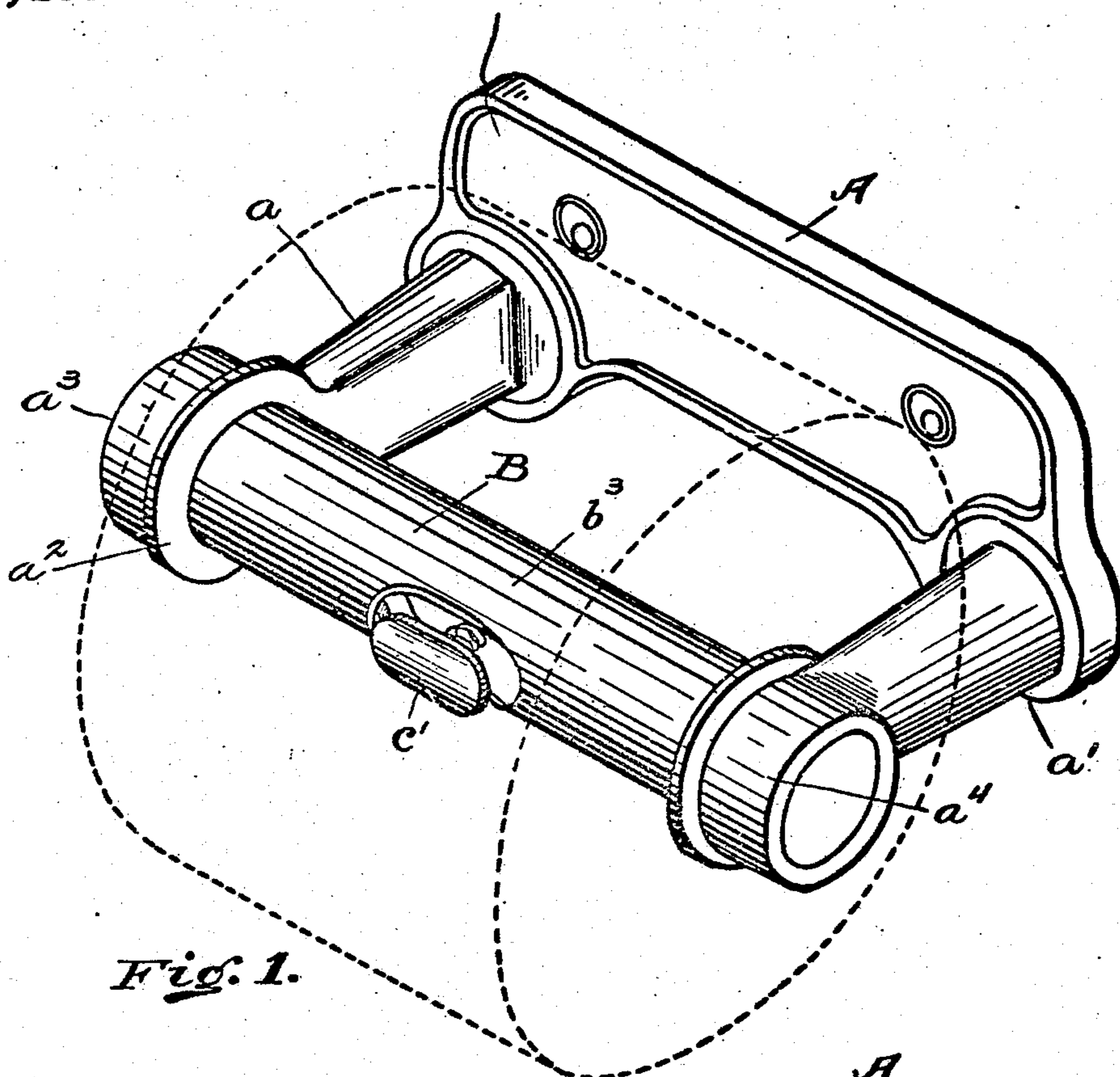


Fig. 1.

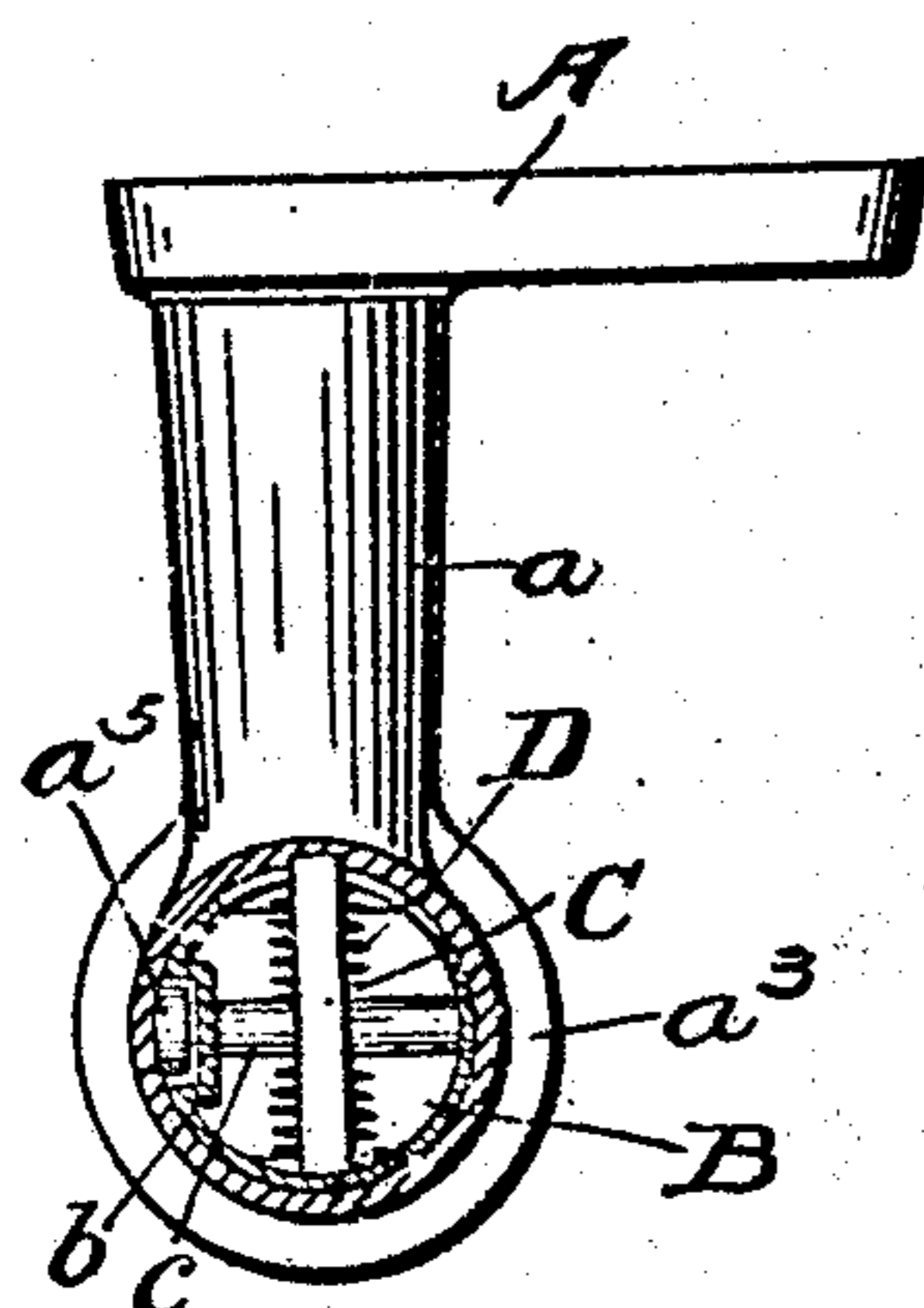


Fig. 3.

Witnesses  
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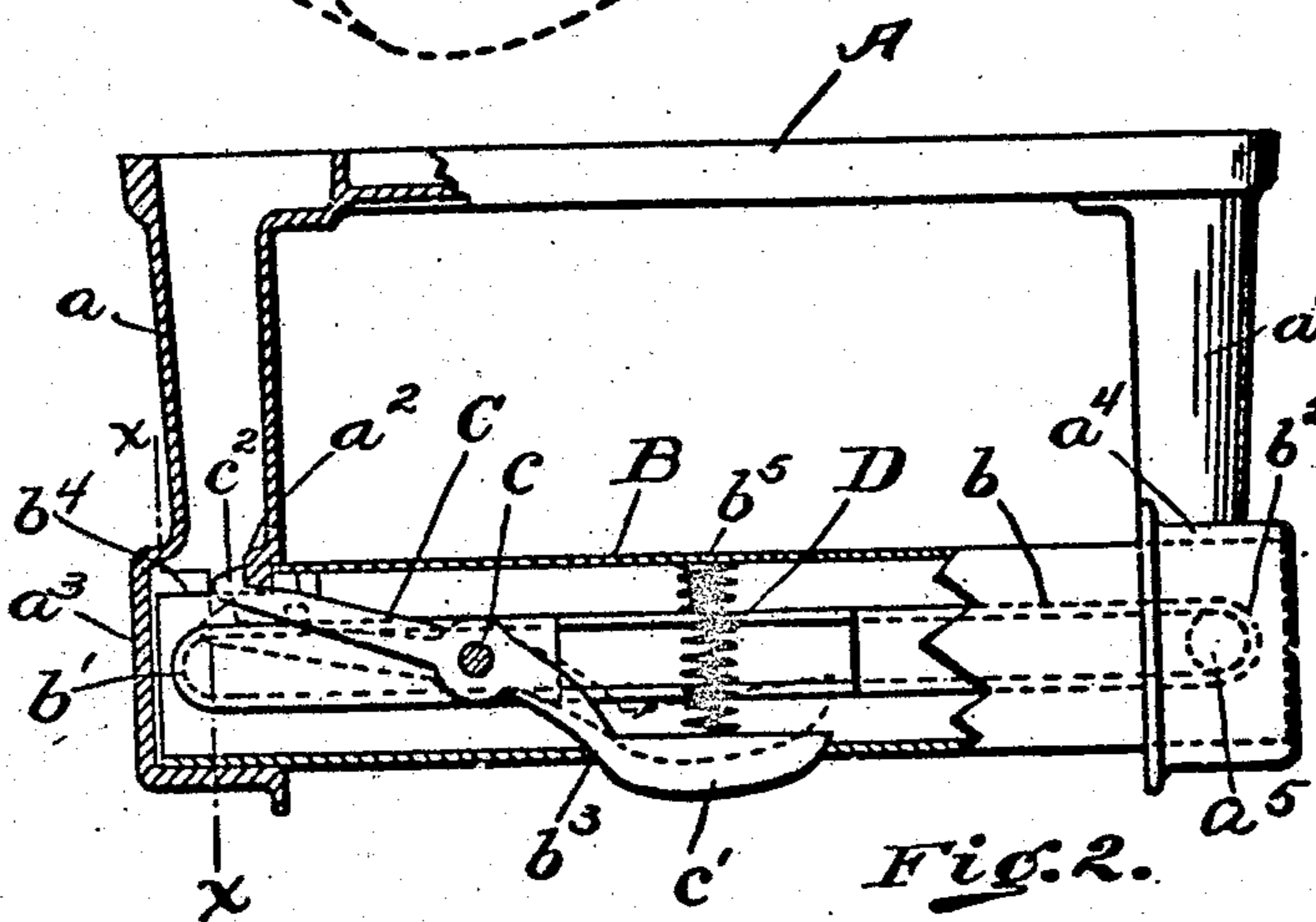


Fig. 2.

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# UNITED STATES PATENT OFFICE.

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## PAPER-ROLL HOLDER.

No. 899,461.

Specification of Letters Patent.

Patented Sept. 22, 1908.

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*To all whom it may concern:*

Be it known that I, JOHN McNEIL, a citizen of the United States of America, and resident of Cincinnati, county of Hamilton, State of Ohio, have invented certain new and useful Improvements in Paper-Roll Holders, of which the following is a specification.

My invention relates to paper roll holders, especially to holders for toilet paper of the kind which are provided with a means of preventing the roll of paper from being removed bodily from the mandrel after it has been locked in place.

The object of my invention is a holder wherein the means of locking the mandrel in place likewise performs the function of preventing the spinning or paying off too rapidly of the paper from the roll, and which, besides preventing the stealing of the roll of paper, prevents likewise the stealing of the parts of the holder.

Referring to the accompanying drawings: Figure 1 is a perspective view of a paper roll holder embodying my invention, the roll being shown in dotted line. Fig. 2 is a view partly in section and partly in elevation of my holder. Fig. 3 is a view taken upon line  $x-x$  of Fig. 2.

Referring to the parts: Base plate, A, has formed integral with its ends two outwardly projecting arms,  $a, a'$ . Arm,  $a$ , terminates in a bearing with a ring,  $a^2$ , upon one side, and a closed end,  $a^3$ , upon the other. Arm,  $a'$ , terminates in a ring,  $a^4$ .

The mandrel consists of a tube, B, which has upon one side a groove,  $b$ , whose ends,  $b', b^2$ , terminate at a short distance from the ends of the tube, B. Tube, B, has a central notch  $b^3$ , and upon the diametrically opposite side, and at the other end of the tube a notch,  $b^4$ . Journaled upon a pin,  $c$ , which is supported by the tube, B, is a lever, C, one of whose ends terminates in a thumb-piece,  $c'$ , and the opposite end in a tooth,  $c^2$ . The lever is of a length such that the thumb-piece,  $c'$ , may project through the notch,  $b^3$ , and the tooth,  $c^2$ , may project into the notch,  $b^4$ . Thumb-piece,  $c'$ , is normally pressed outwardly into the notch,  $b^3$ , by a coiled spring, D, which engages a stud,  $b^5$ , upon the interior of the tube, B.

Ring,  $a^4$ , has projecting from its interior a

stud,  $a^5$ , which is adapted to engage the groove,  $b$ . The locked position of the mandrel is illustrated best in Fig. 2, wherein the tooth,  $c^2$ , is shown engaging the ring,  $a^2$ , and the thumb-piece,  $c'$ , is shown as projecting beyond the external surface of the mandrel, a position in which it is held by means of the spring, D. In this position it is seen that when the roll of paper is located upon the mandrel, the thumb-piece,  $c'$ , will bear against the roll with a spring pressure and prevent its rotating too freely upon the mandrel, and that at the same time the roll of paper completely covers the thumb-piece,  $c'$ , so that the mandrel may not be disengaged from its bearings until the paper has been rolled off.

After the paper has been rolled off the mandrel, the mandrel may be disengaged from the ring,  $a^2$ , by pressing inward upon the thumb-piece,  $c'$ , and then the mandrel may be slid through the ring,  $a^4$ , until the end which is adapted to engage the bearing,  $a^2$ , comes adjacent to the ring,  $a^4$ . It is seen that the removal of the mandrel, B, from the ring,  $a^4$ , is prevented by the pin's,  $a^5$ , abutting against the end,  $b'$ , of the groove.

The operation of inserting the roll in place is a simple one, since it is necessary only to place the roll with its hole in alignment with the mandrel, B, and then merely to push the mandrel, B, through the roll until the tooth,  $c^2$ , engages the bearing,  $a^2$ .

What I claim is:

1. A paper roll holder, having two arms, one of which is perforated and the other recessed, a mandrel adapted to be supported in the arms, a locking lever pivoted upon the mandrel and having one of its ends adapted to lock itself within the recess and the other to bear against a roll of paper, which may be mounted upon the mandrel.

2. A paper roll holder, consisting of arms adapted to support a mandrel, the mandrel consisting of a hollow tube notched upon one side, and a lever pivoted within the tube, having one of its ends adapted to engage one of the arms and having the other end terminating in a thumb-piece and a spring adapted to hold the thumb-piece outwardly beyond the notch in the mandrel.

3. In a paper roll holder the combination

of two arms, one terminating in a bearing for the mandrel, and the other terminating in a ring through which the mandrel may slide, a groove upon one side of the mandrel, the groove being closed at the end, and a pin projecting through the ring into the groove to permit the reciprocation of the mandrel in the ring while retaining the mandrel against removal from the ring.

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Witnesses:

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