

H. KIBELE.  
MOP HOLDER.  
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998,532.

Patented July 18, 1911.

Fig. 1.

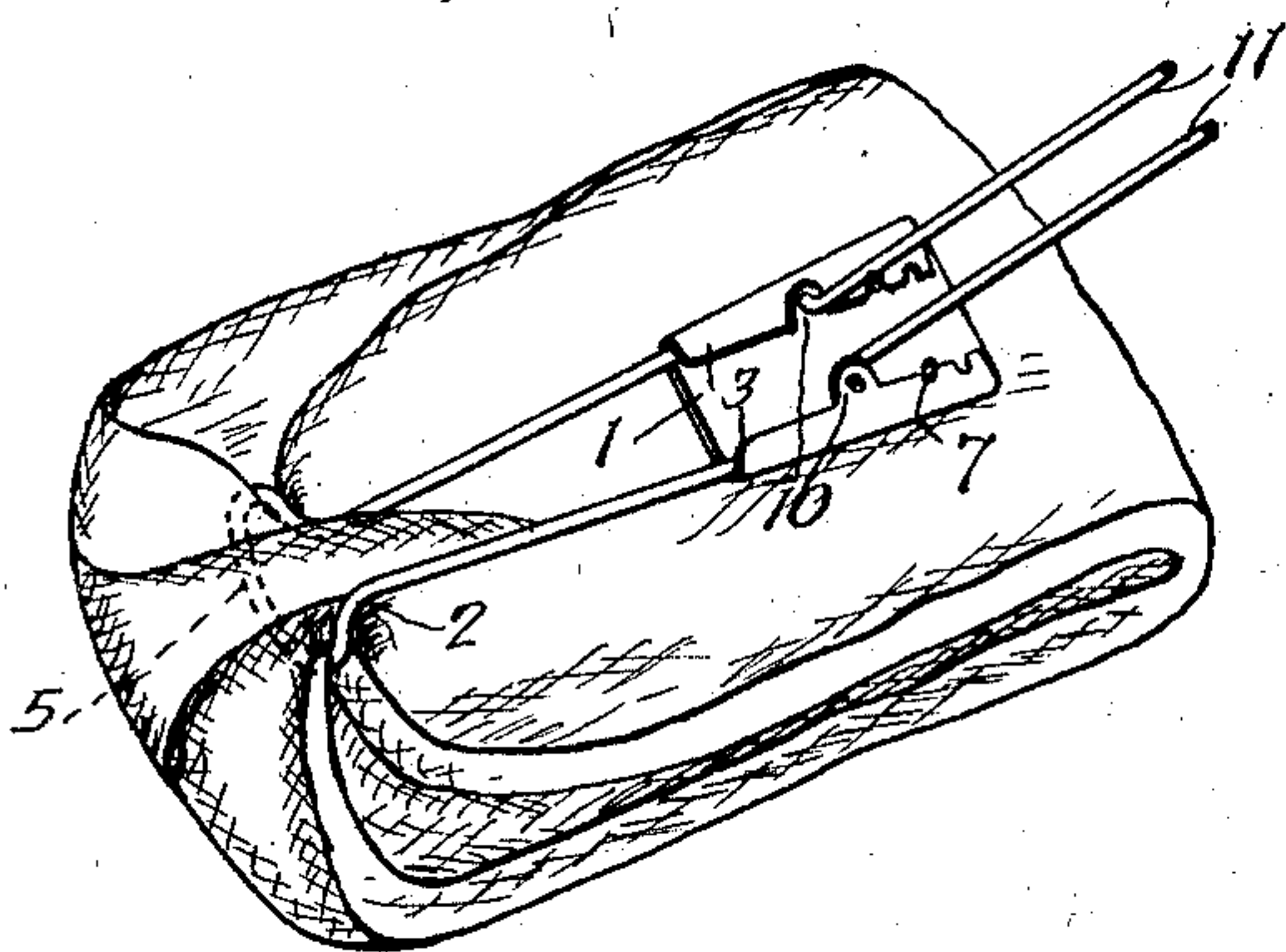


Fig. 2.

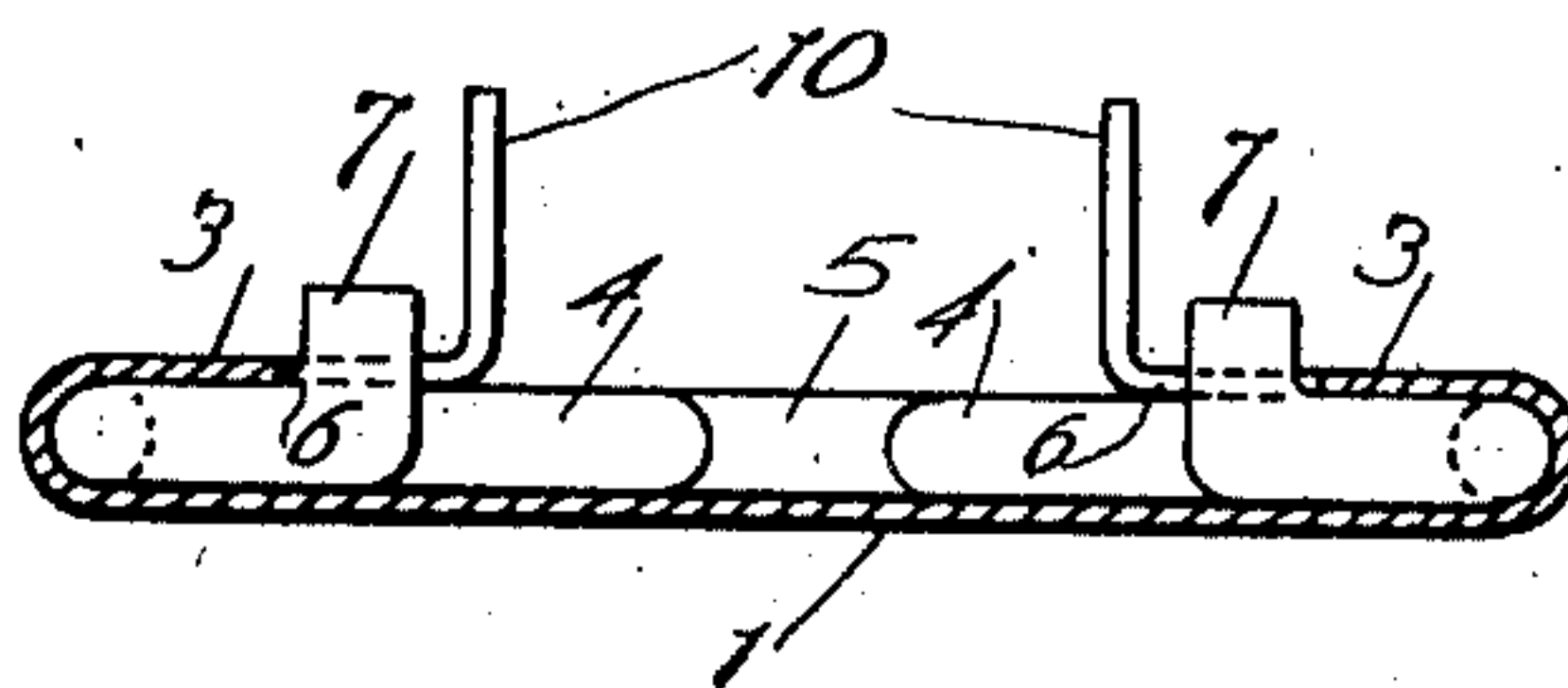


Fig. 3.

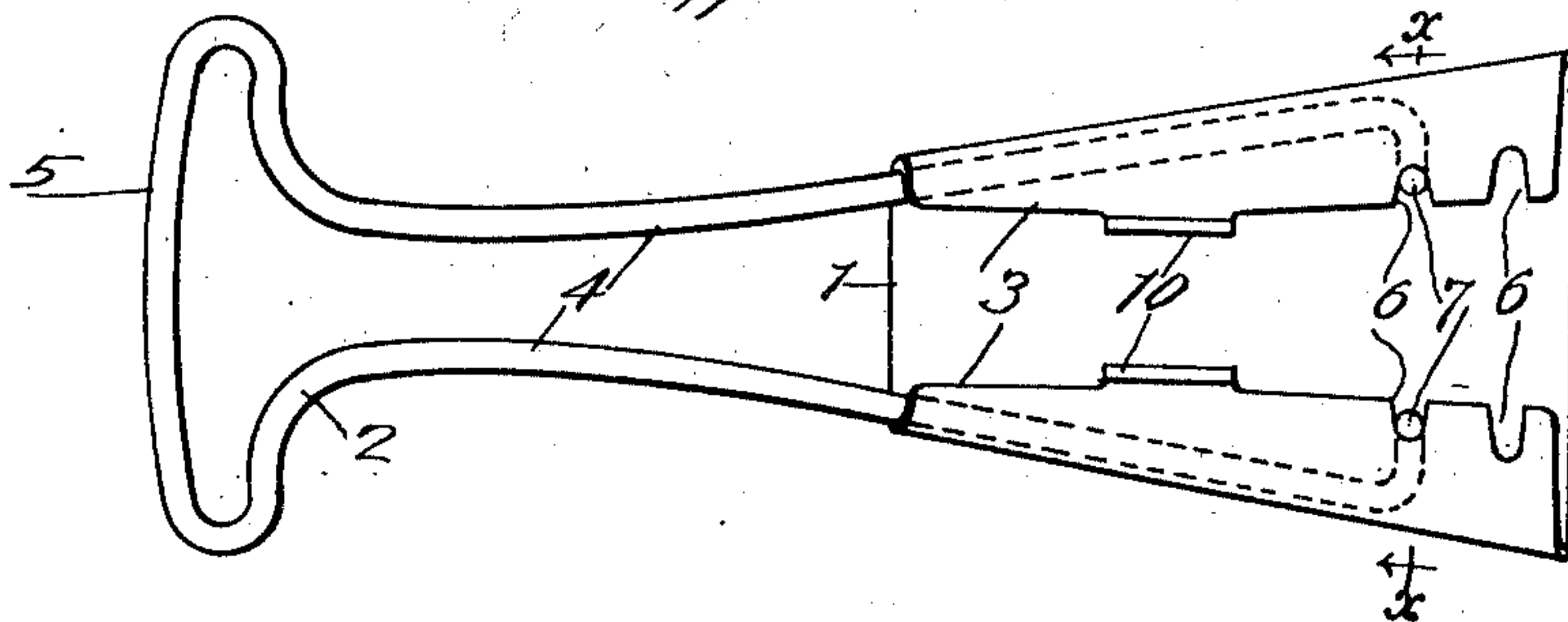
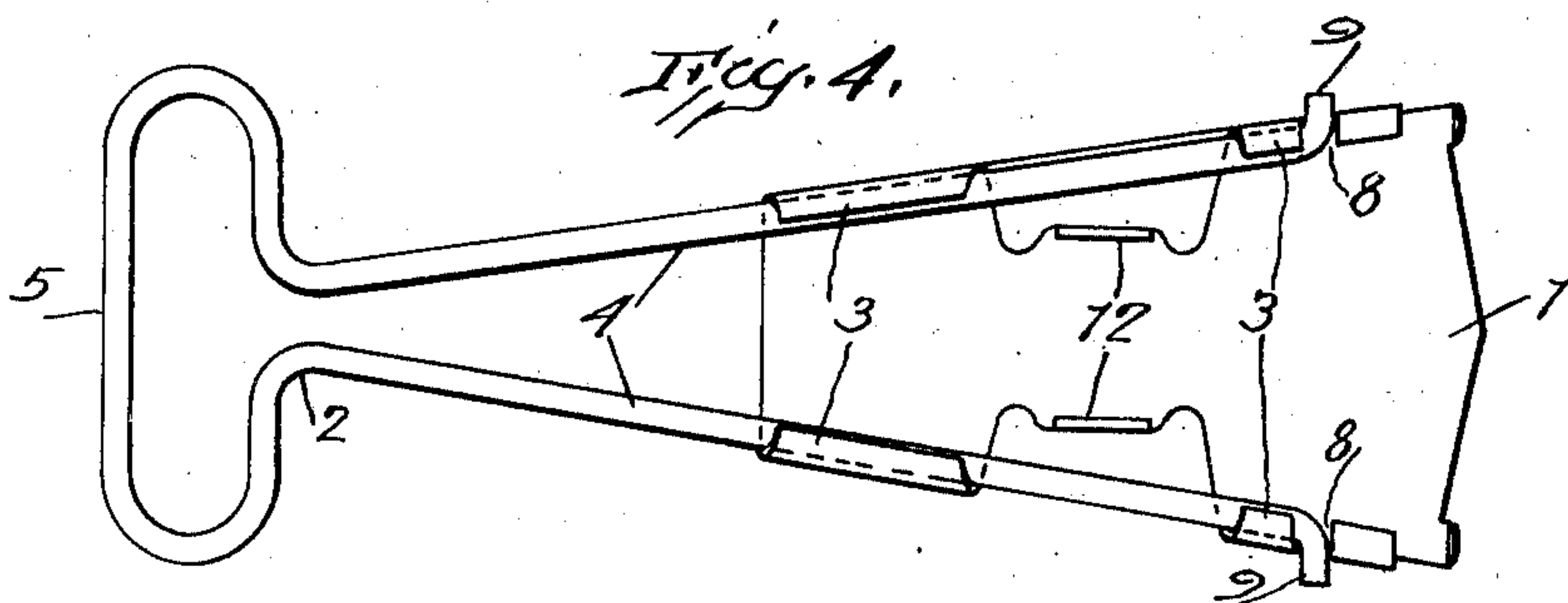


Fig. 4.



Witnesses

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# UNITED STATES PATENT OFFICE.

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MOP-HOLDER.

998,532.

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*To all whom it may concern:*

Be it known that I, HECTOR KIBELE, a citizen of the United States, residing at Bluffton, in the county of Allen and State of Ohio, have invented certain new and useful Improvements in Mop-Holders, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to mop holders, and is designed more particularly for use in connection with a combined mop holder and wringer of a well known construction.

15 The object of the invention is to facilitate the removal and replacing of the mop cloth; to provide a holder, the movable parts of which will be firmly connected one to the other and will not become separated when in use but which may be readily separated 20 when so desired; and further, to provide a holder which will present a smooth surface to the mop cloth and will not catch or tear the same.

25 In the accompanying drawings, Figure 1 is a perspective view of a mop holder embodying the invention showing the mop cloth attached thereto; Fig. 2 is a transverse, sectional view, taken on the line  $x-x$  of Fig. 3; Fig. 3 is a top, plan view of such a mop holder; and Fig. 4 is a top, plan view of a slightly modified form of the invention.

30 In these drawings I have, for the purpose of illustration, shown two forms of my invention. These forms are similar in their essential features of construction and differ only in minor details. Both forms of the device include a body portion 1, to which is secured a connecting device 2. The body portion 1 preferably comprises a plate of 40 metal having its lateral edges converging toward the connecting device 2 and having these lateral edges turned upward and inward, as indicated at 3, thereby forming along each edge of the holder an elongated 45 seat or recess opening inwardly. The connecting device 2 preferably comprises a rod of resilient metal having two arms 4 which diverge at an angle corresponding approximately to the angle of divergence of the 50 edges of the body portion or plate. The connecting device has at that end opposite the body portion or plate suitable means for attaching the mop cloth thereto and to the mop holder. As here shown this means 55 comprises a laterally elongated loop 5

formed integral with the arms 4. The resilient arms of the connecting device 2 are adapted to enter the elongated recesses or seats formed by the upwardly and inwardly turned edges of the plate 1 and to be retained in these seats or recesses by their own 60 resiliency. Inasmuch as the inturned portions of the edges of the plate extend above the arms of the connecting device it will be obvious that these parts have no vertical 65 movement relatively one to the other and that when the arms of the connecting device are in engagement with the lateral edges of the plate, the mop which has been inserted in the loop 5 will be firmly attached 70 to the holder. The arms may be held against longitudinal movement relatively to the plate in any suitable manner and it is in this respect that the greatest difference exists between the two forms of the device here 75 shown. In that form shown in Figs. 1, 2 and 3 the inturned edges of the plate are provided with notches 6 near that end opposite the connecting member 2 and the arms of the connecting member carry suitable 80 upwardly extending projections or lugs 7 adapted to enter the notches 6 when the arms are in engagement with the edges of the plate, thereby interlocking the parts and preventing relative longitudinal movement 85 thereof. The lugs 7 may be secured to the arms in any suitable manner, but preferably are formed by turning the ends of the arms inward and then upward, as shown. By providing the inturned edges of the plate 90 with two or more pairs of notches the point of connection may be varied. In that form of the device shown in Fig. 4 the upturned or vertical portions of the edges are provided with openings 8 which are adapted to 95 receive outwardly extending projections 9 carried by the arms 4 and preferably formed by turning the ends of the arms outward, as shown in the drawings. In either form of the device it will be apparent that the connection is made by providing one or both 100 of the upwardly and inwardly turned edges of the plate with openings adapted to receive projections secured to the resilient arms. 105

It will be noted that the resilient arms are held against the upturned edges of the body portion and that the projections carried by said arms are held in the openings in said edges by the outward expansion of the con- 110



necting device, that is, by the tendency of the resilient arms to move outward which causes them to exert pressure against the upturned edges.

5 The mop holder may be secured to the handle or operating device in any suitable manner. In Figs. 1 to 3 the inturned portions of the edges of the plate are provided with upwardly extending apertured lugs 10 to which are connected the adjacent ends of rods 11, the opposite ends of which may be secured to a handle or any suitable operating device. In Fig. 4 the device has lugs 12 struck up from the body of the device at a point intermediate the ends thereof and adapted to be connected to the handle in the same manner as are the lugs of the device shown in Figs. 1 to 3.

20 The operation of the device will be readily understood from the foregoing description and it will be apparent that the two parts of the holder may be readily separated by compressing the resilient arms to release the lugs from the openings in the edges of the plate. The mop cloth may then be inserted or removed and the arms again placed in engagement with the upwardly and inwardly turned edges of the plate. It will also be apparent that the connection is 30 a very rigid one and that the parts will not become disarranged when the device is in use, although they may be easily separated when this is desired. Further, it will be apparent that those portions of the holder which come in engagement with the mop cloth are smooth and have no parts which will be liable to catch or tear the mop cloth.

40 While I have herein illustrated the invention by showing two forms thereof it will be understood that the invention is not limited to these two forms and that I do not wish to be limited to the details of construction shown and described, for obvious modifications will occur to a person skilled in the art.

Having thus fully described my invention, what I claim as new and desire to secure by Letters Patent, is:—

1. In a mop holder, a plate having its lateral edges diverging and turned upward 50 and inward to form longitudinal recesses along the sides of said plate, and an outwardly expanding connecting device comprising two resilient arms adapted to enter the respective recesses and to be retained 55 therein by the expansion of said device, said plates and said arms having cooperating devices to hold the same against relative longitudinal movement, said devices being brought into operative engagement by the expansion of said connecting device and being disengaged by the compression of said connecting device. 60

2. In a mop holder, a plate having its lateral edges turned upward and inward, an outwardly expanding connecting device comprising two resilient arms adapted to engage the upwardly and inwardly turned edges of said plate and to be retained in engagement therewith by the expansion of 70 said connecting device, said upturned edges having openings therein, and projections carried by said arms and adapted to be moved into the respective openings by the expansion of said device. 75

3. In a mop holder, a plate having its lateral edges turned upward and inward, a connecting device comprising two arms adapted to engage the upwardly and inwardly turned edges of said plate, said upwardly and inwardly turned edges of said plate having notches therein, and upwardly extending projections carried by said arms and adapted to enter the respective notches. 80

In testimony whereof, I affix my signature 85 in presence of two witnesses.

HECTOR KIBELE.

Witnesses:

NOAH BASINGER,  
H. J. CALL.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."