

No. 833,800.

PATENTED OCT. 23, 1906.

N. H. C. PIHL.
DETACHABLE STAND FOR PAILS.
APPLICATION FILED APR. 21, 1906.

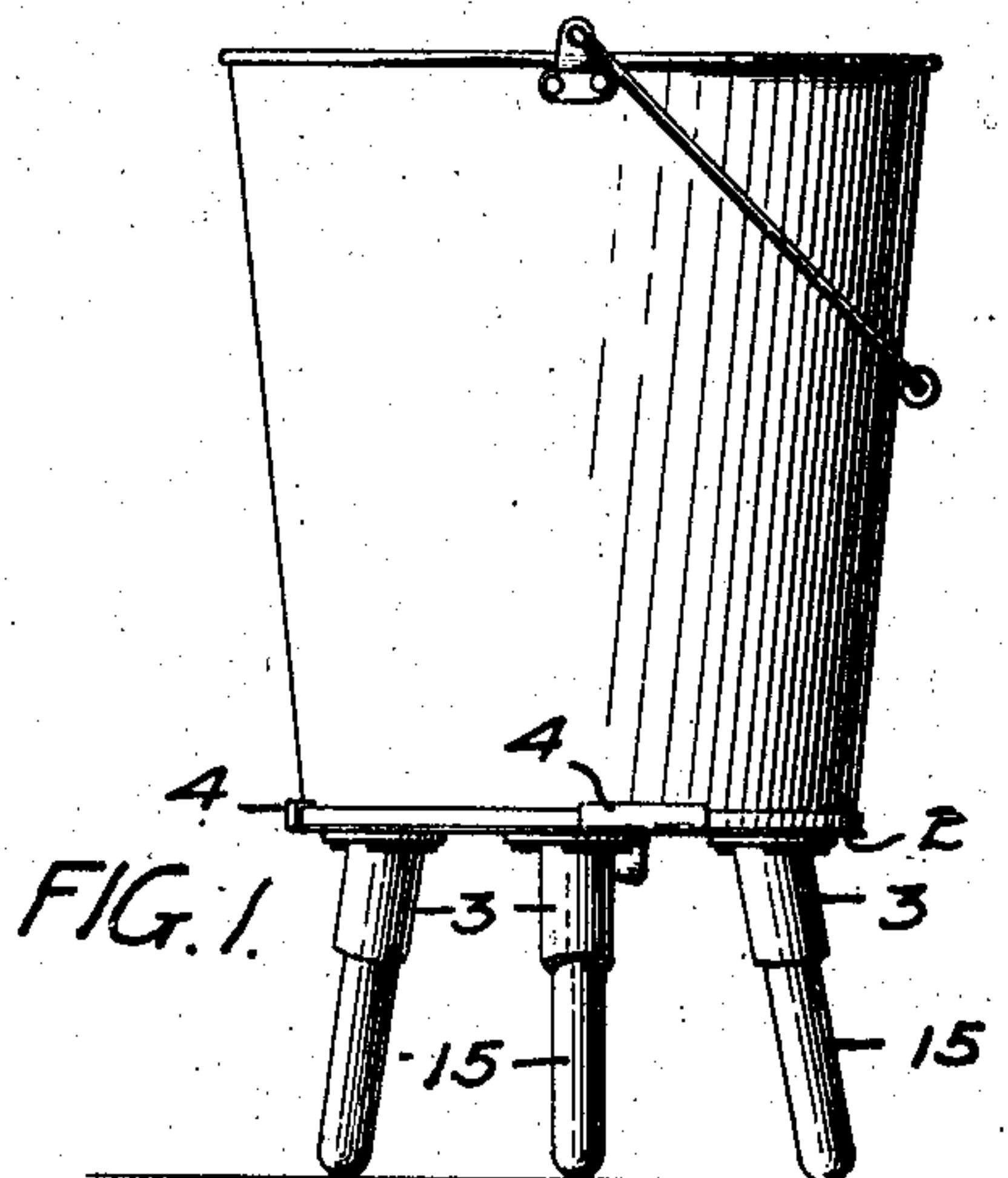


FIG. 1.

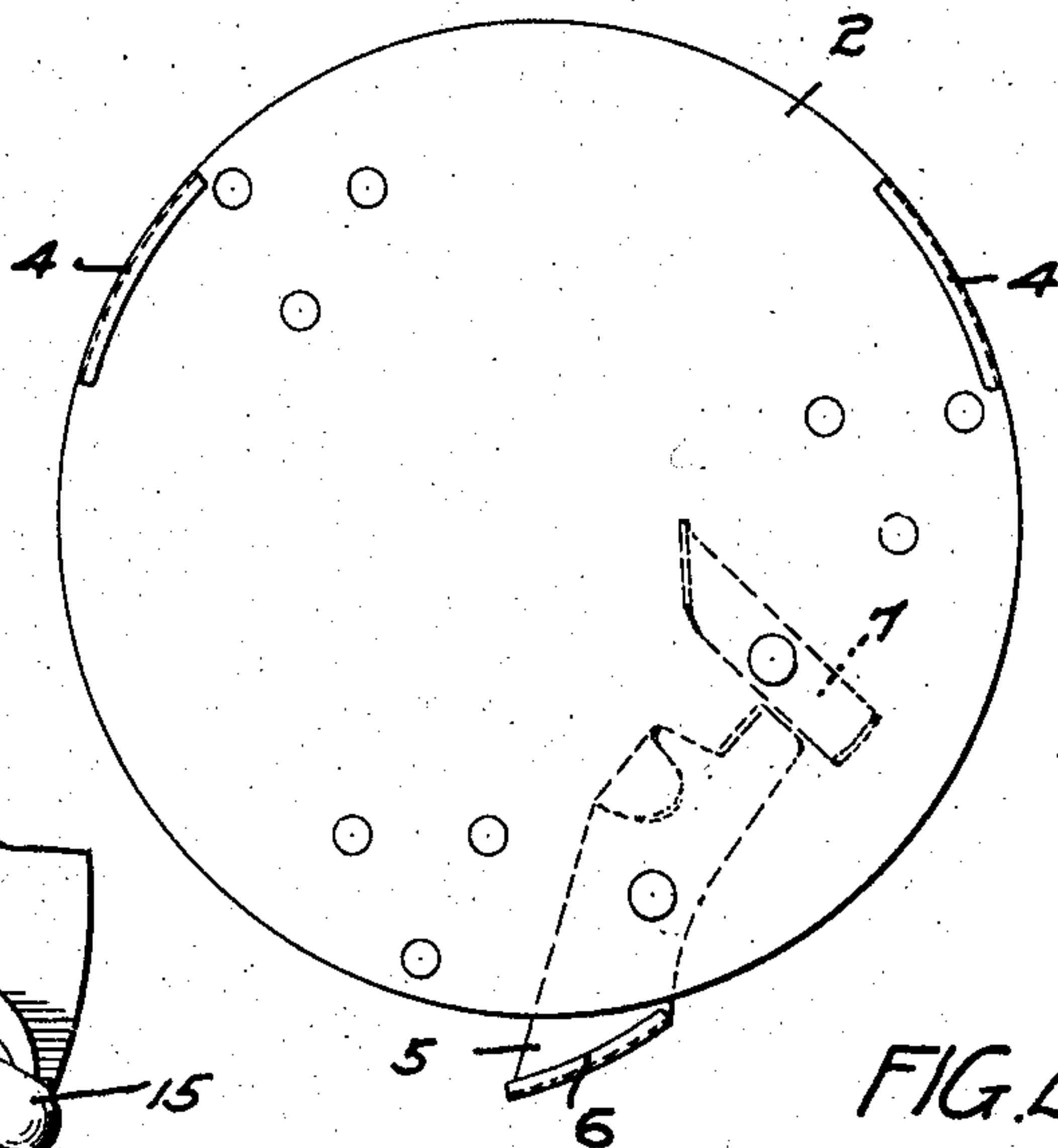


FIG. 2.

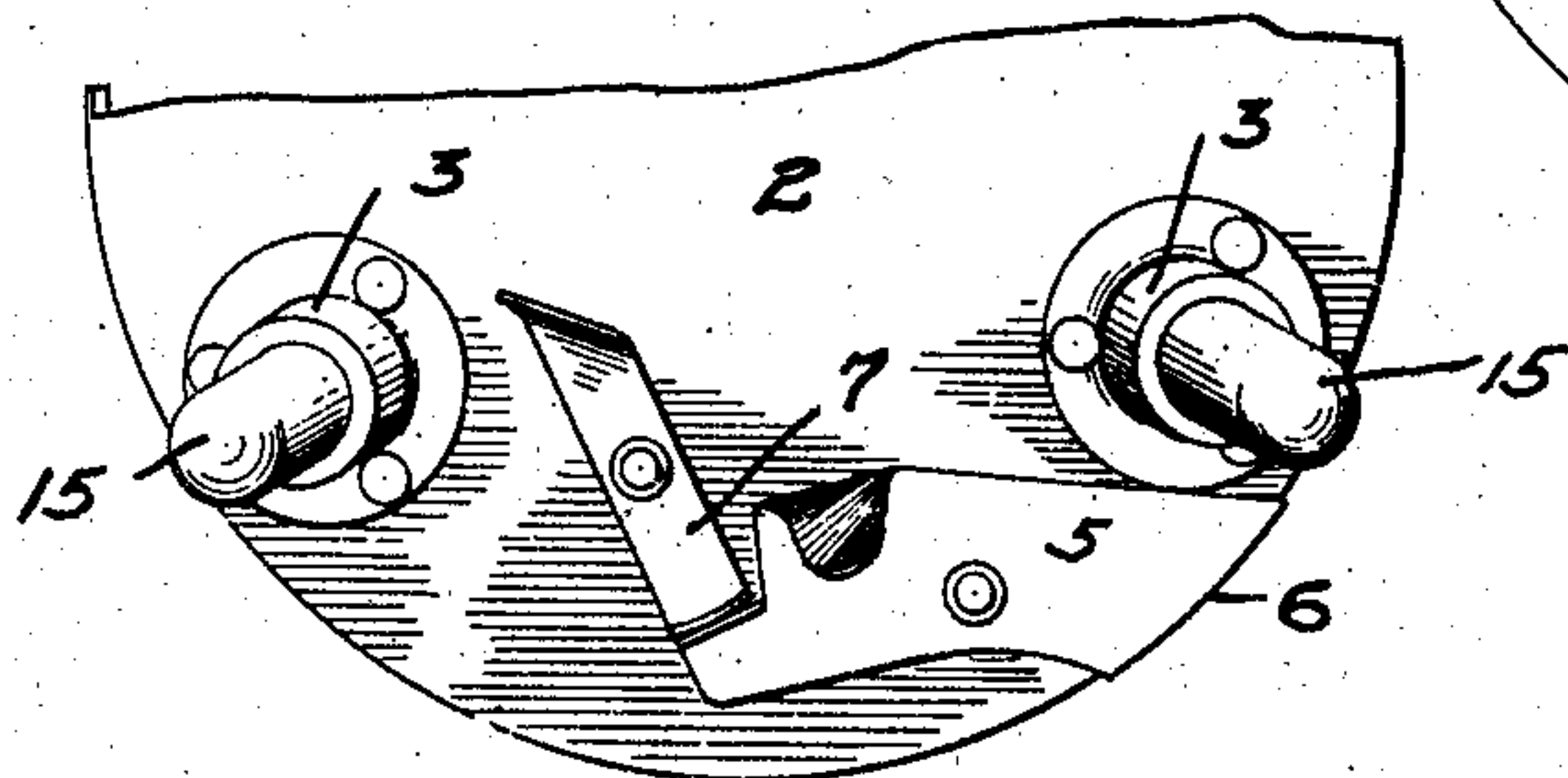


FIG. 3.

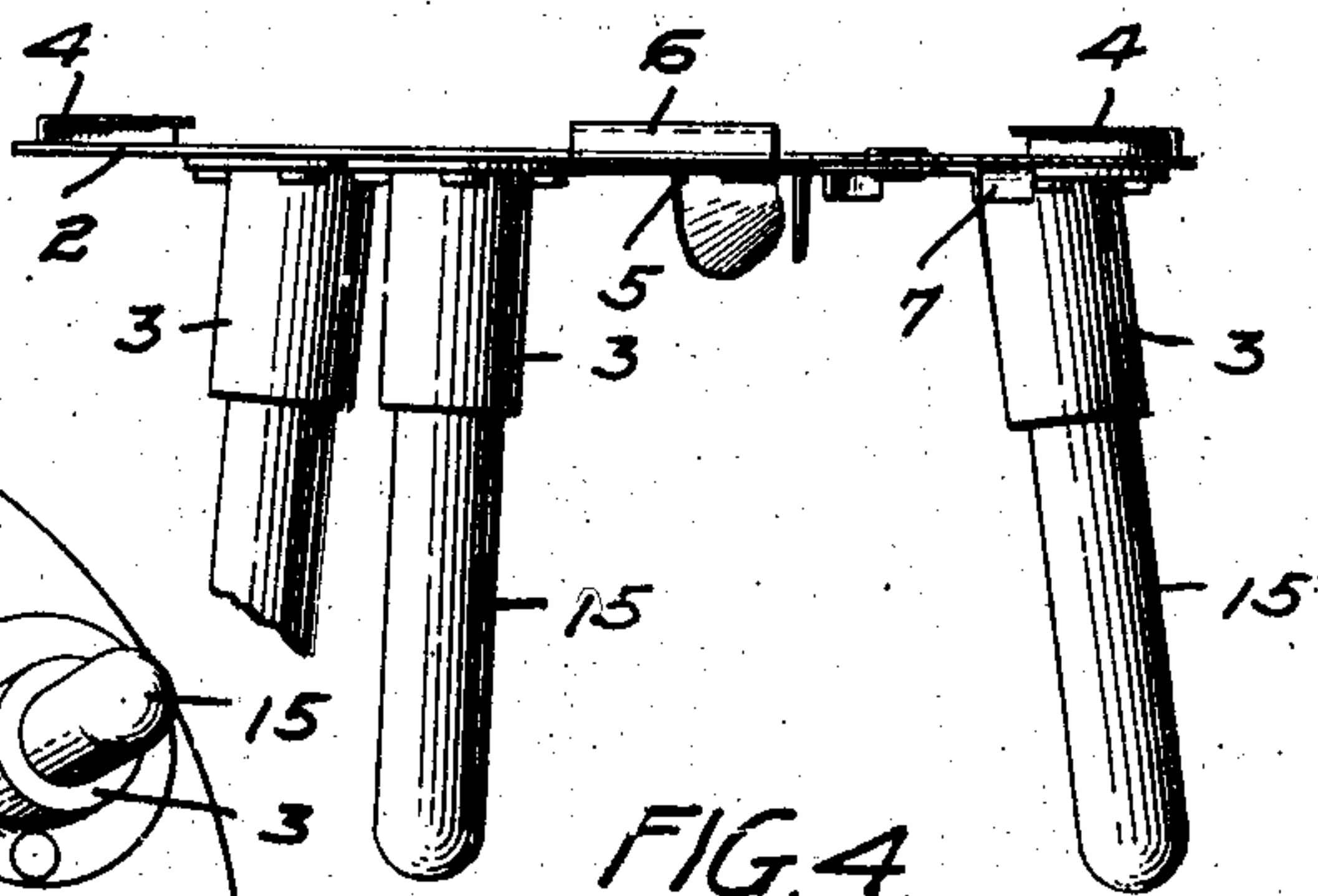


FIG. 4.

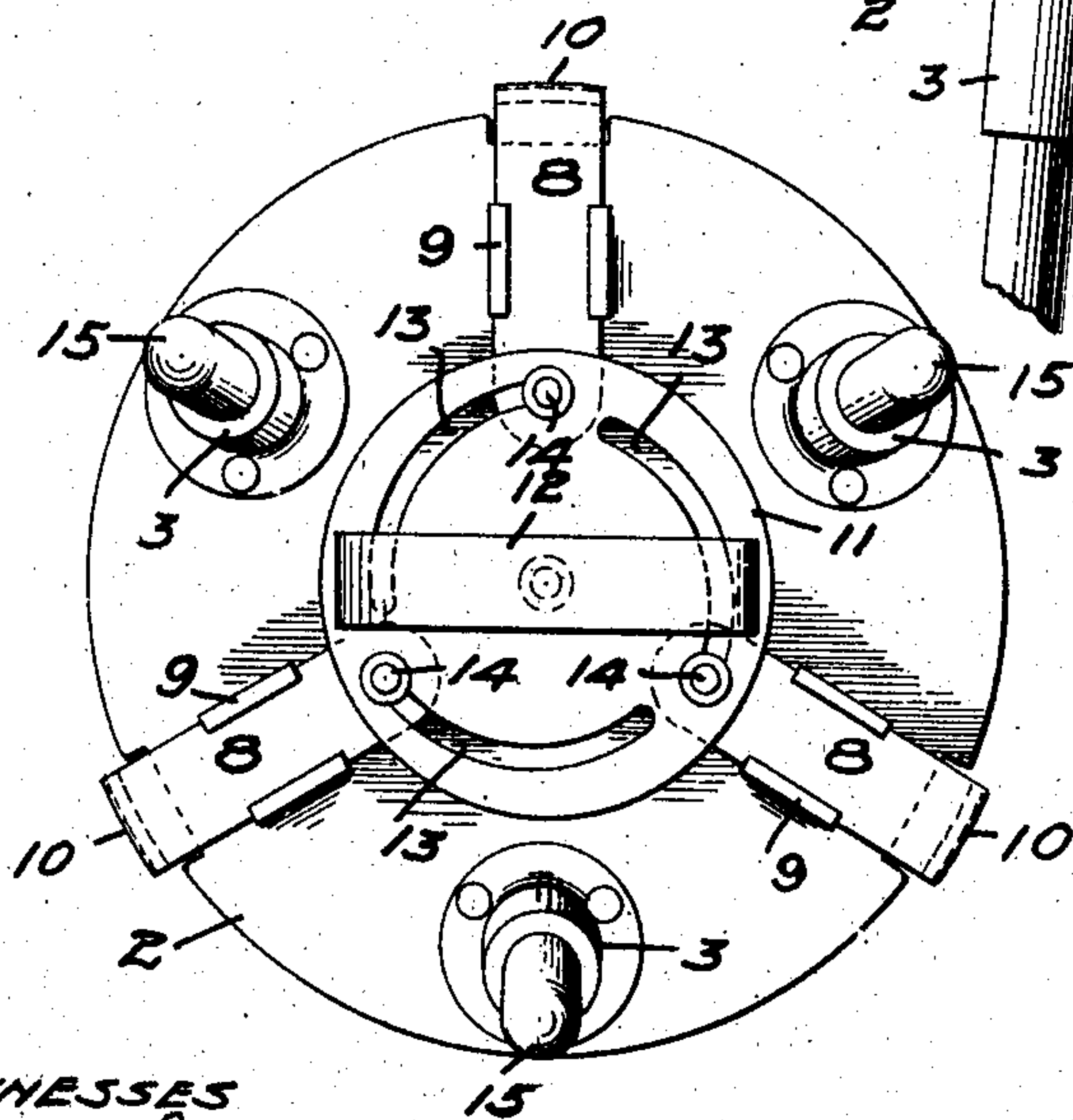


FIG. 5.

WITNESSES
M. M. Lewis
J. H. Baldwin

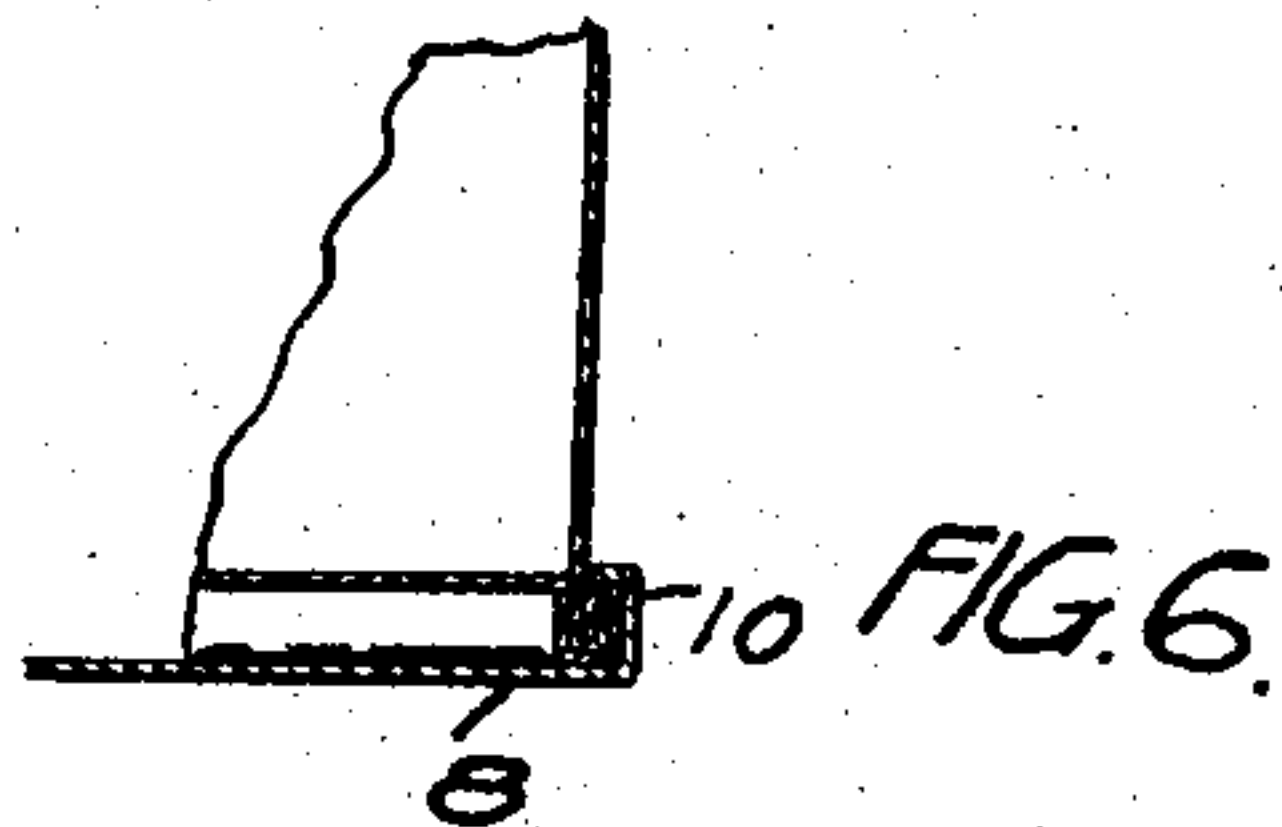


FIG. 6.

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DETACHABLE STAND FOR PAILS.

No. 833,800.

Specification of Letters Patent.

Patented Oct. 23, 1906.

Application filed April 21, 1906. Serial No. 313,015.

To all whom it may concern:

Be it known that I, NILS H. C. PIHL, a citizen of the United States, residing at the city of Minneapolis, county of Hennepin, and State of Minnesota, have invented certain new and useful Improvements in Detachable Stands for Pails, of which the following is a specification.

This invention relates to improvements in detachable stands designed particularly for holding milk-pails, although the same is applicable and may be used for holding other receptacles; and the object of the invention is to provide a stand that may be readily attached to or removed from the bottom of a milk-pail or other receptacle to hold the pail off from the ground or floor and at a proper height for use while milking.

The invention consists generally in the constructions and combinations hereinafter described, and particularly pointed out in the claims.

In the accompanying drawings, forming part of this specification, Figure 1 is a side elevation of my improved stand having a milk-pail supported thereon. Fig. 2 is a plan view of the same. Fig. 3 is a bottom view of a portion of the stand. Fig. 4 is a side elevation of the stand detached or separated from the pail. Fig. 5 is a bottom view showing the modified construction. Fig. 6 is a detail of the construction shown in Fig. 5.

In the drawings, 2 represents a plate preferably formed of galvanized iron or other material and preferably of circular form and of proper size to receive and support a milk-pail or other receptacle. This plate is provided upon its under side with a series of sockets 3, which are secured to the plate in any suitable manner. Said sockets preferably flare outward from the center of the plate, and inserted in the sockets are legs 15 of any desired length. The edge of the plate is preferably provided with the two outwardly and inwardly projecting lips 4, each of which is of sufficient size to have the flange at the bottom of an ordinary milk-pail or similar receptacle inserted in the horizontal portion of said lip. The swinging locking-plate 5 is pivoted on the under side of the plate near one edge thereof, and this plate carries a lip 6, corresponding in form and shape to the lips 4. A latch 7 is also provided on the under side of the plate for holding the locking-plate 5 in engagement with the flange of the milk-pail.

In using the device the milk-pail is placed upon the plate 2, and the edge of the flange is shoved under the lips 4. The locking-plate 5 is then turned, so as to cause the lips 6 to engage the flange of the pail, bringing the locking-plate in the position shown in Fig. 3 of the drawings. The latch 7 is then swung into engagement with the rear end of the plate 5. By this means the stand and pail are securely locked together, and when the pail is lifted by the handle or moved in any other way the stand moves with it as a part thereof.

In place of using the two fixed lips and the one movable lip, as shown in the drawings already described, I provide a series of slides 8, arranged to move radially in guides 9 upon the under side of the plate 2 and each of said slides being provided at its end with an upwardly and inwardly turned lip 10. In this instance I secure centrally upon the under side of the plate 2 by a suitable stud or pivot a disk 11, having a handle 12. This disk is provided with a cam-slot 13 for each of the slides 8, and each of said slides is provided with a stud 14 in engagement with the corresponding slide 13. By turning the disk 11, which may be done by means of the handle 12, the slides 8 are moved radially. When it is desired to fasten the stand to a milk-pail, the bottom of the pail is placed on the plate 2, and the disk 11 is rotated by means of the handle 12, and the slides 8 are all moved inward until the lips 10 engage the flange at the bottom of the pail and lock the bottom of the pail and the plate 2 together. This form of the device may be used on pails or receptacles varying considerably in size.

In both of these constructions it will be noted that the stand may be quickly fastened to the bottom of the flanged pail or receptacle and that it cannot be accidentally removed therefrom, but that when it is desired to remove it it can be quickly done by disengaging the movable lip or lips from the bottom of the pail or receptacle. I construct these stands in various sizes, so that the same are applicable to pails or receptacles of different sizes.

It is customary in milking cows for the milker to hold the pail between the knees; but with this device instead of holding the weight of the pail and milk between the knees the pail is supported on two of the legs of the stand and is only tipped over enough to suit the milker, who only has to steady the pail to hold the same in position. With this

device perfect cleanliness is secured, as the bottom of the pail never rests upon the floor or ground, and the pail can be emptied by taking hold of one of the legs of the stand for the purpose of tipping the pail. This prevents the milker's hands from becoming soiled. With the milk-pail secured upon this stand it is easier for the milker to follow a moving cow and it is also easier to prevent the pail from being kicked over by the cow. By the use of this stand the milk will always be kept perfectly clean and at the same time nearly one-half of the work of milking will be saved.

I do not limit myself to the details of construction, as same may be varied in many particulars without departing from my invention.

I claim as my invention—

1. The combination, in a device of the class described, with the supporting-plate having suitable sockets on the under side thereof, and legs arranged in said sockets, of the clamping-lips arranged at the edge of said plate and means for engaging said lips with the flange of a pail or other receptacle arranged upon said plate, substantially as described.

2. The combination, with the supporting-

plate and the series of legs secured to the under side thereof, of a pivoted clamping device projecting above said plate and adapted to clamp the bottom of a pail or other receptacle to said plate, substantially as described.

3. The combination, with the plate 2, provided with the series of legs projecting from the under side thereof, of the clamping-lips projecting upwardly from the edge of said plate and adapted to engage the flange of a pail or other receptacle resting upon said plate, one of said lips being movable, and means for operating the pivoted lip, substantially as described.

4. The combination, with the circular plate 2 provided on its under surface with the series of legs, of the series of clamping-lips projecting upwardly above said plate and adapted to engage the flange of a pail or other receptacle placed upon said plate, and means for moving and locking one of said lips, substantially as described.

In witness whereof I have hereunto set my hand this 18th day of April, 1906.

NILS H. C. PIHL.

Witnesses:

A. C. PAUL,
J. H. BALDWIN.