R. L. HOLEHOUSE.

OIL CUP.

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976,365.

Patented Nov. 22, 1910.

Fig. 2

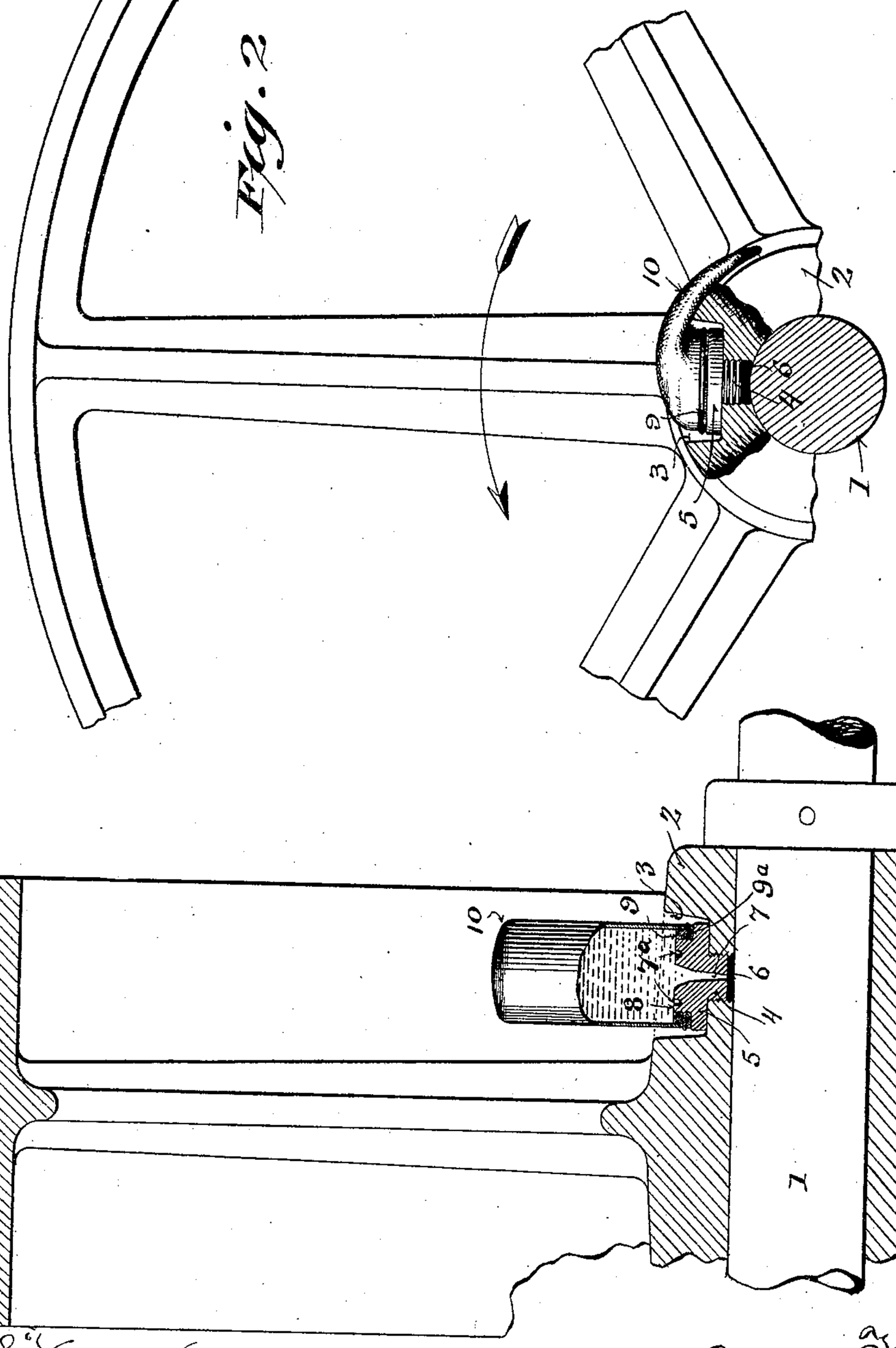

Fig. 1.

Witnesses:
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UNITED STATES PATENT OFFICE.

ROBERT L. HOLEHOUSE, OF MILWAUKEE, WISCONSIN.

OIL-CUP.

976,365. Specification of Letters Patent. Patented Nov. 22, 1910.

Application filed March 7, 1910. Serial No. 547,694.

To all whom it may concern:

Be it known that I, ROBERT L. HOLEHOUSE, a citizen of the United States, and resident of Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented certain new and useful Improvements in Oil-Cups; and I do hereby declare that the following is a full, clear, and exact description thereof.

The object of my invention is to provide an oil-cup for attachment to movable parts of a machine, which will render accidents to persons coming in contact with said cup impossible, these accidents being frequently due to the clothing of persons being caught upon the projecting oil-cups now in common use. The oil-cup, when brought into contact with an obstruction placed in the path of its travel, will collapse, the above result being accomplished by providing the cup with a reservoir composed of flexible material that projects beyond the surface of the member or machine element to which it is attached.

The invention consists in certain peculiarities of construction and combination of parts to be fully set forth hereinafter with reference to the accompanying drawings and subsequently claimed.

In the drawings Figure 1 represents a cross-section of a portion of a loose pulley mounted upon a shaft, the pulley being provided with an oil-cup embodying the features of my invention, the cup being partly broken away and in section to better illustrate the structural details thereof, and Fig. 2, a side elevation of the same with the shaft and a portion of the pulley hub in section, illustrating the cup in collapsed condition assumed after the same has come in contact with an obstruction.

Referring by characters to the drawings 1 represents a shaft and 2 the hub of a loose pulley mounted thereon, the hub being provided with a countersunk seat 3 having a central threaded aperture 6, which aperture communicates with the face of the shaft. A metallic bottom 5, has a nipple 4 fitted into the screw-threaded aperture, the bottom being of solid metal and fitted within the countersunk seat 3 in such relation thereto that its upper face is below the face of the pulley hub.

The bottom head is supplied with a suitable feed aperture 7, which passes through the nipple, and also an upwardly extended threaded shank 8, for engagement with a correspondingly threaded ring 9, which ring has secured thereto a metallic dome or oil reservoir 10, composed of flexible material, the head of the dome being preferably closed as shown. The ring 9 comprises a filling mouth for the dome, which is, as stated, detachably secured to the bottom 5, there being a washer 9^a interposed between the ring and a flanged extension of said bottom, whereby an oil-tight joint is obtained and, for convenience in attaching the said bottom, the same is provided with spanner-wrench indentures 7^a.

In adjusting the cup to any machine element, the bottom 5 is first secured thereto and said machine element is then inverted and the inverted reservoir filled with oil is then inserted thereon. Thus it will be seen that the reservoir may be filled with oil and the inverted mouth quickly adjusted to the bottom portion 5. It will also be observed that, owing to the depth of the seat 3, all of the rigid portion of the cup is below the face of the pulley or other mechanical element to which it is attached.

From the foregoing description it will be understood that should a person inadvertently come within the path of travel of the cup, contact with the same would simply cause its collapse, and thus render liability of accident to the person impossible, due to the fact that the cup will yield under contact.

I claim:

1. An oil-cup for attachment to movable machine elements having a rigid base portion and a reservoir composed of flexible material in its entirety, and means for securing the reservoir to the base portion, said reservoir being otherwise non-supported to permit of its collapse when met by an obstruction in its path of travel.

2. An oil-cup for attachment to movable machine elements comprising a rigid base portion having a threaded shank, a ring in threaded engagement with the shank, and a reservoir composed in its entirety of flexible material secured to the ring, the reservoir being otherwise non-supported to permit of its collapse when met by an obstruction in its path of travel.

3. A machine element having a counter-

sunk recess, a rigid oil-cup bottom seated within the recess, and a collapsible oil reservoir extending from the bottom beyond the face of that portion of the machine element to which it is attached.

In testimony that I claim the foregoing I have hereunto set my hand at Milwaukee in the county of Milwaukee and State of Wisconsin in the presence of two witnesses.

ROBERT L. HOLEHOUSE.

Witnesses:
GEO. W. YOUNG,
MAY DOWNEY.