

No. 677,611.

Patented July 2, 1901.

J. E. AKERS.  
DUST GUARD.

(Application filed Feb. 25, 1901.)

(No Model.)

Fig. 1.

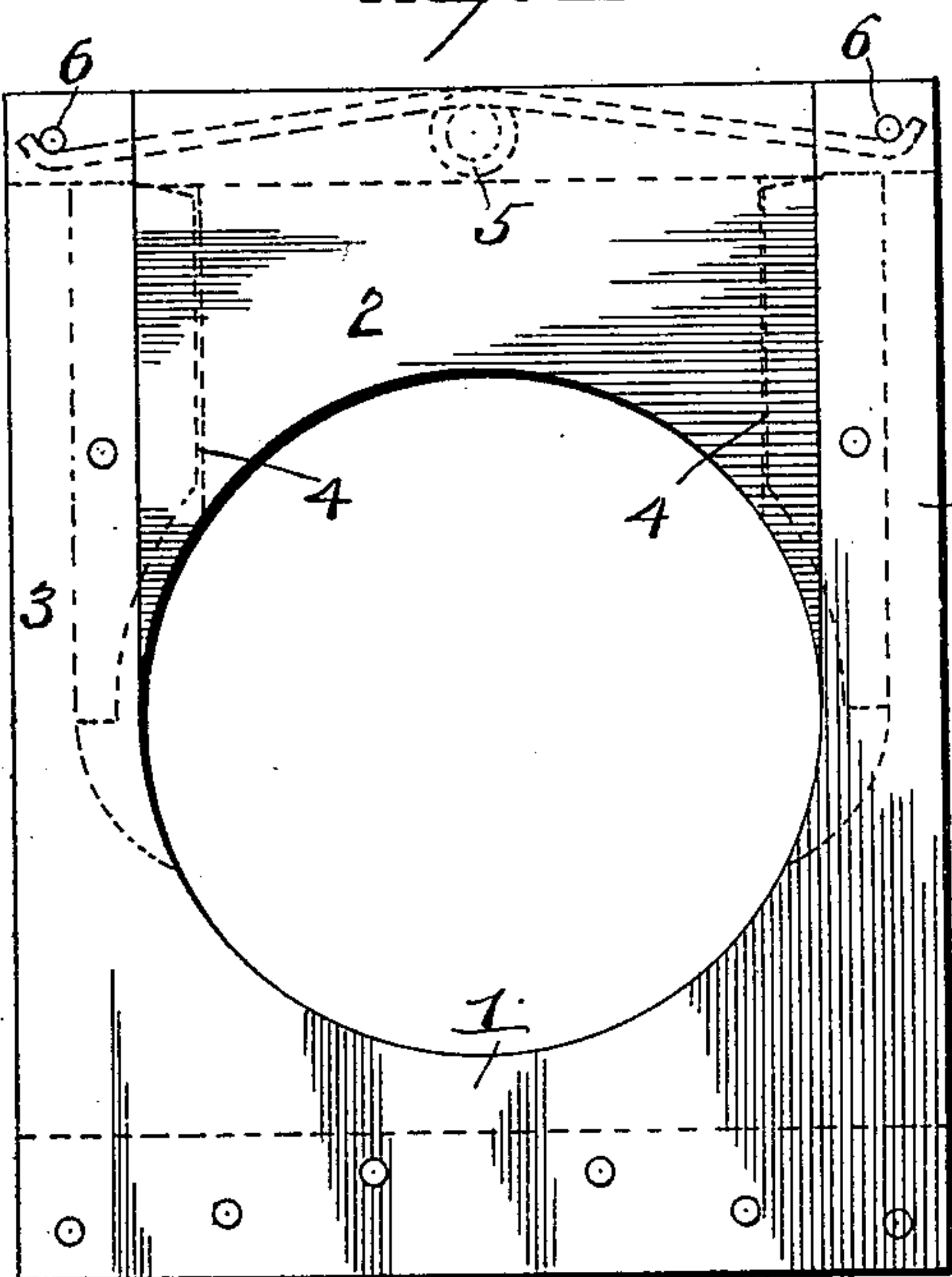


Fig. 2.

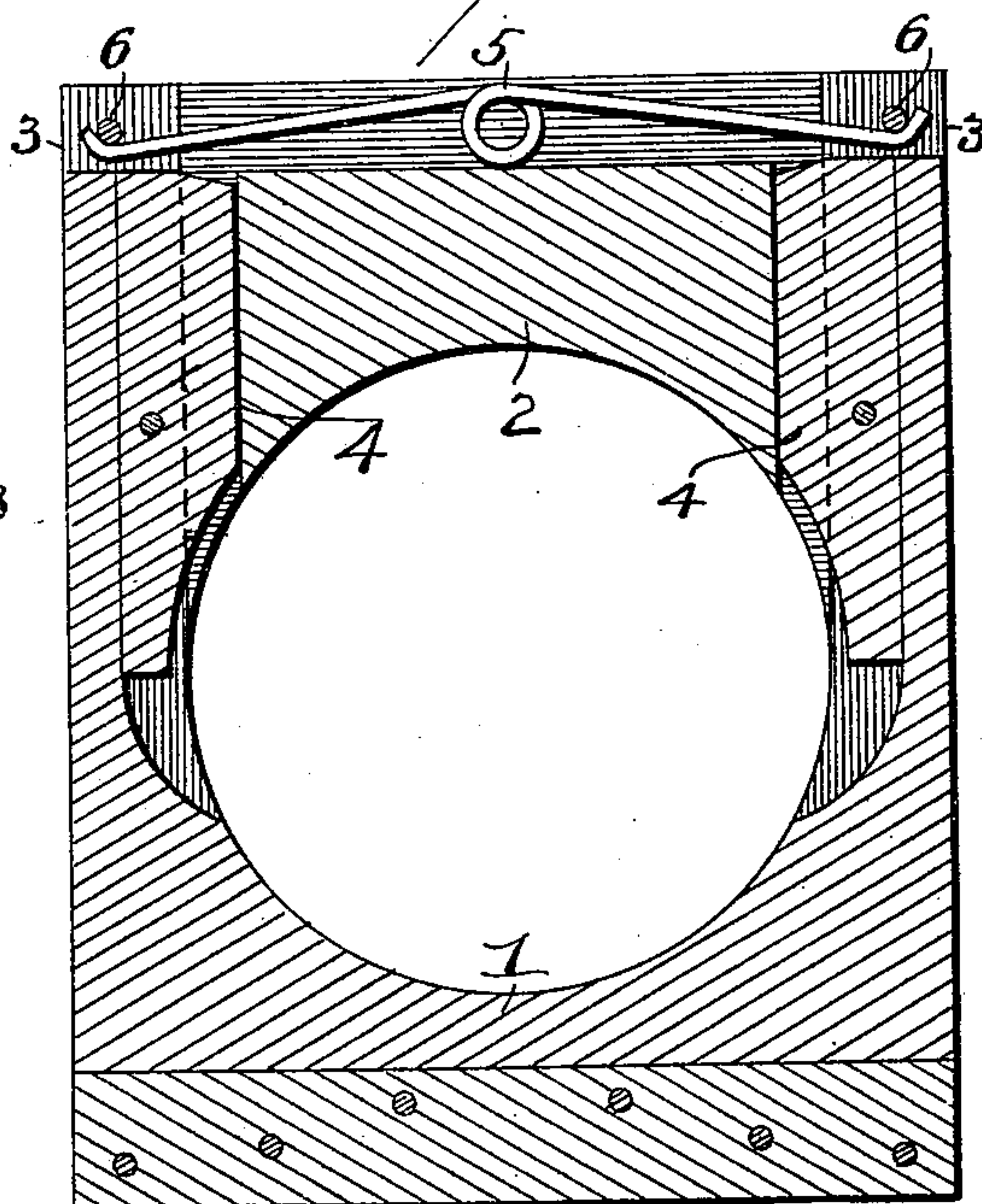
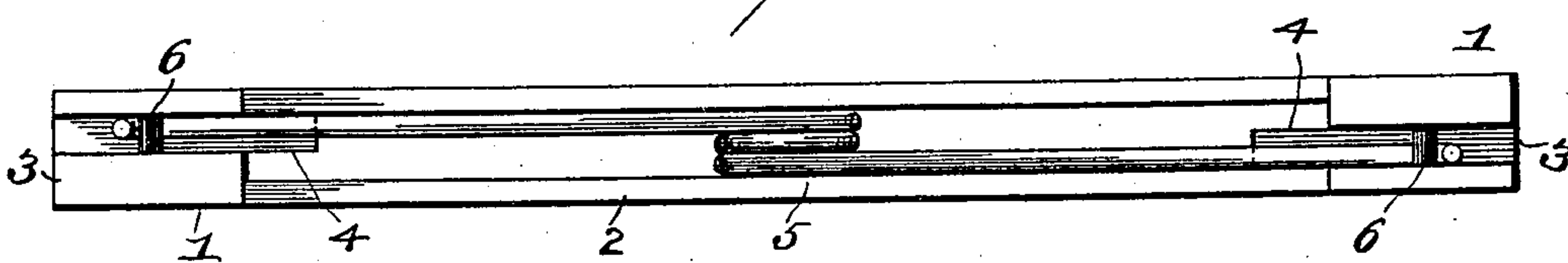


Fig. 3.



WITNESSES

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# UNITED STATES PATENT OFFICE.

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## DUST-GUARD.

SPECIFICATION forming part of Letters Patent No. 677,611, dated July 2, 1901.

Application filed February 25, 1901. Serial No. 48,817. (No model.)

*To all whom it may concern:*

Be it known that I, JULIAN E. AKERS, a resident of Columbus, in the county of Franklin and State of Ohio, have invented certain new and useful Improvements in Dust-Guards; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to an improvement in dust-guards for car-axle boxes, the object of the invention being to provide an improved device of this character which will be extremely simple in construction, cheap to manufacture, and which will when in use prevent any dust or grit from entering the box.

With this object in view the invention consists in certain novel features of construction and combinations and arrangements of parts, as will be more fully hereinafter described, and pointed out in the claim.

In the accompanying drawings, Figure 1 is a view in elevation, illustrating my improvements. Fig. 2 is a view in section, and Fig. 3 is a top view.

1 represents the lower member of my improved guard, and 2 the upper member. The lower member 1 is provided with a curved upper edge to fit against the lower half of the car-axle and with parallel uprights 3, having tongues 4 on their inner edges, to fit into grooves in the side edges of the upper member 2 to prevent displacement of the latter, but permit of its free vertical movement. The lower edge of the upper member 2 is curved in the arc of a circle to engage the upper half of the car-axle and, together with the lower member 1, entirely surrounds the same to prevent any possibility of the entrance of dust or grit into the box. The upper edge of the upper member 2 is grooved to receive a spring 5, coiled between its ends, and the coil is located in the grooved upper edge of the member 2, and the respective ends of the spring 5 are located below pins 6 in the bifurcated upper ends of uprights 3 and bent upward at their extreme ends to prevent the escape of the spring ends from the pins 6. It will thus be seen that the ends of spring 5

tend to draw the lower member 1 up against the under side of the car-axle, while the central coiled portion of the spring exerts a down pressure on the upper member 2 to force the latter down onto the upper half of the axle.

My improved guard may be made of wood or metal, and instead of bifurcating the upper ends of uprights 3 to receive the ends of the spring 5 I might bore a hole in each upright for this purpose and secure the central portion of the spring to the upper member 2 in any desired manner.

Various other slight changes might be resorted to in the general form and arrangement of the several parts described without departing from the spirit and scope of my invention, and hence I would have it understood that I do not wish to limit myself to the precise details set forth, but consider myself at liberty to make such slight changes and alterations as fairly fall within the spirit and scope of my invention.

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

In a dust-guard, the combination of two members, both movable relatively to each other, the lower member having two uprights and an intermediate curved face, the upper member having a curved lower face and mounted to slide in the uprights of the lower member, one of said members having lateral tongues to move in vertical grooves in the other member, the upper ends of the uprights and the upper end of the upper member having aligned grooves, and a spring housed in said grooves, said spring being coiled between its ends and bearing upon the upper member to force it downwardly on a journal and the ends of the spring connected with said uprights and exerting an upward force on said lower member to press it upwardly against the journal.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

JULIAN E. AKERS.

Witnesses:

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H. M. BENNETT.