

(No Model.)

W. S. SOULE.

DUST GUARD FOR CAR AXLES.

No. 381,591.

Patented Apr. 24, 1888.

Fig. 1.

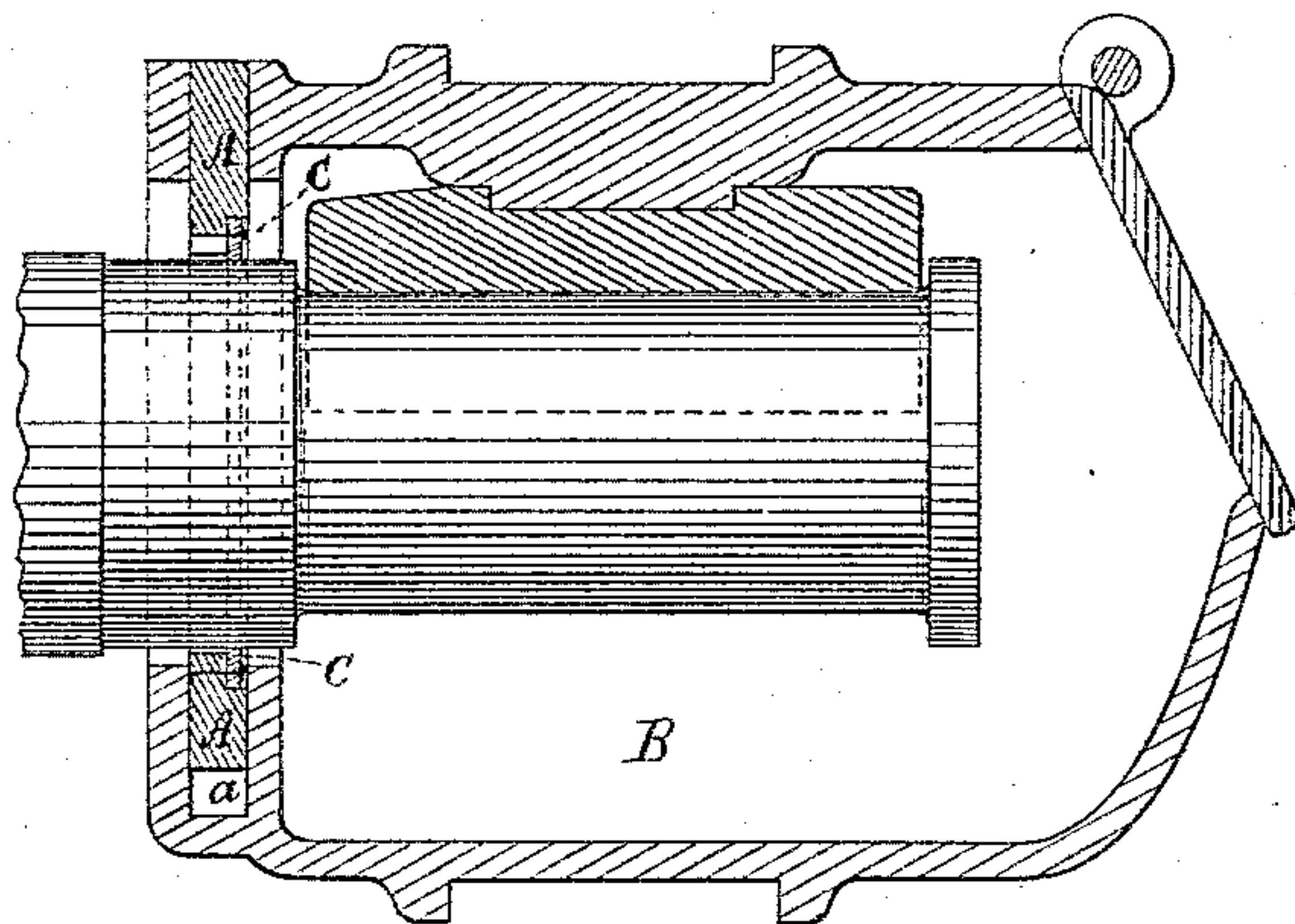


Fig. 2.

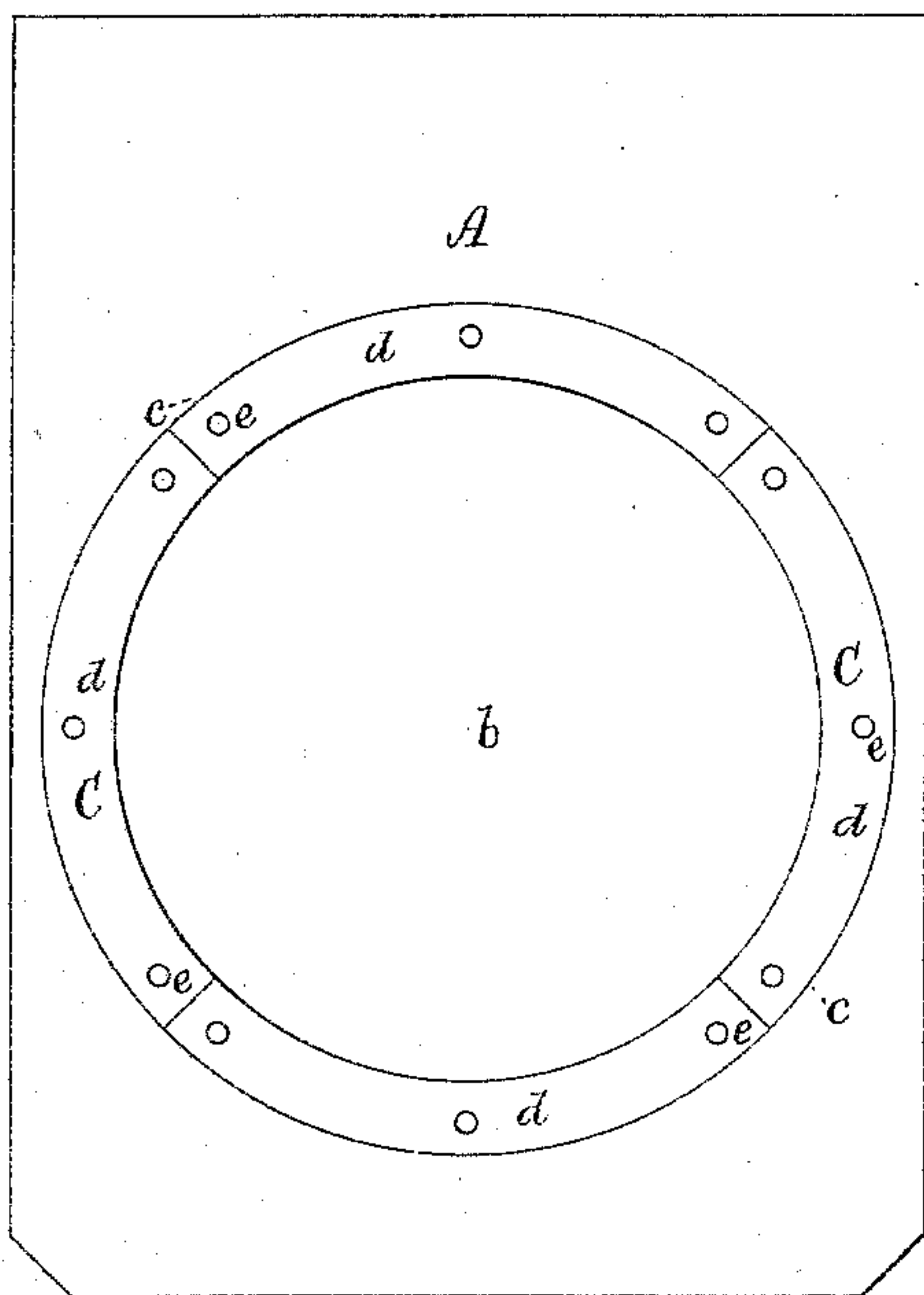


Fig. 3.

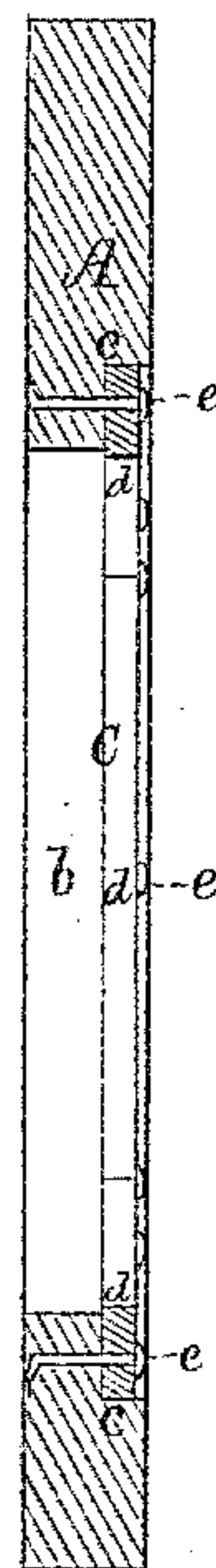
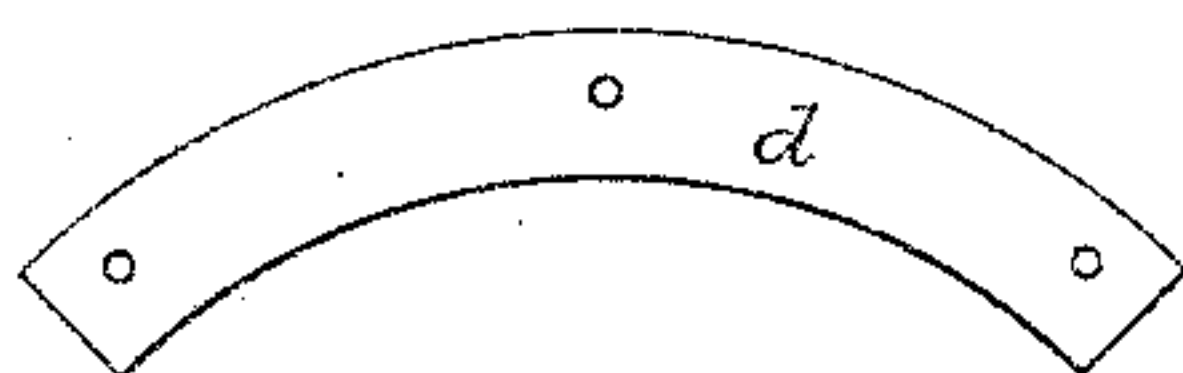


Fig. 4.



Witnesses

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# UNITED STATES PATENT OFFICE.

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## DUST-GUARD FOR CAR-AXLES.

SPECIFICATION forming part of Letters Patent No. 381,591, dated April 24, 1888.

Application filed January 31, 1888. Serial No. 262,478. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM S. SOULE, a citizen of the United States, residing at Cambridge, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Dust-Guards for Car-Axles; and I do 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, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

Figure 1 represents a longitudinal and vertical section of a railway car axle-box and an elevation of a portion of a car-axle having a dust-guard made in accordance with my invention applied thereto. Fig. 2 is a side elevation, and Fig. 3 a vertical section, of the said guard. Fig. 4 is a side view of one of the ring-sections.

The object of my invention is to provide a dust-guard for car-axles possessing wearing qualities equal to any now or heretofore in use, and that can be manufactured at less cost than any previously made.

The body A of my improved dust-guard consists of a piece of wood or other suitable material made to the required shape and thickness to enter and properly fit to the groove *a*, formed to receive it in the inner end of the axle-box B. Said body is provided with a circular opening, *b*, extended through it to receive the car-axle; and leading out of said circular opening and concentric therewith is a rabbet, *c*, in which is arranged an annulus, C,

of rawhide, made in quarter sections *d*, each section being secured in said rabbet and to the body by nails, screws, or rivets *e*, as represented, or otherwise. The holes in each section to receive the nails, screws, or rivets are punched at the time that the die cuts the section from the piece of hide. By forming the ring or annulus in sections, as described, a side of rawhide can be cut up into said sections with little, if any, waste, which results in a great saving in the rawhide over the mode of forming the annulus in one entire piece thereof, thus causing much waste of the rawhide, which is a very expensive material.

A dust-guard made as hereinbefore described is equally as good as one having a rawhide annulus made in one entire ring, and can be manufactured at much less cost, as there is little, if any, waste of material.

Therefore I claim as of my invention—

A dust-guard for car-axles having a body of wood or other suitable material provided with a circular opening to receive the car axle, said body being provided with a rabbet leading out of said circular opening and having a rawhide ring made in sections to fit to said axle, secured in said rabbet and to the body, as described, all being arranged with the axle-box and for use substantially as set forth and represented.

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

WM. S. SOULE.

Witnesses:

S. N. PIPER,  
C. F. DANIELS.