

No. 741,383.

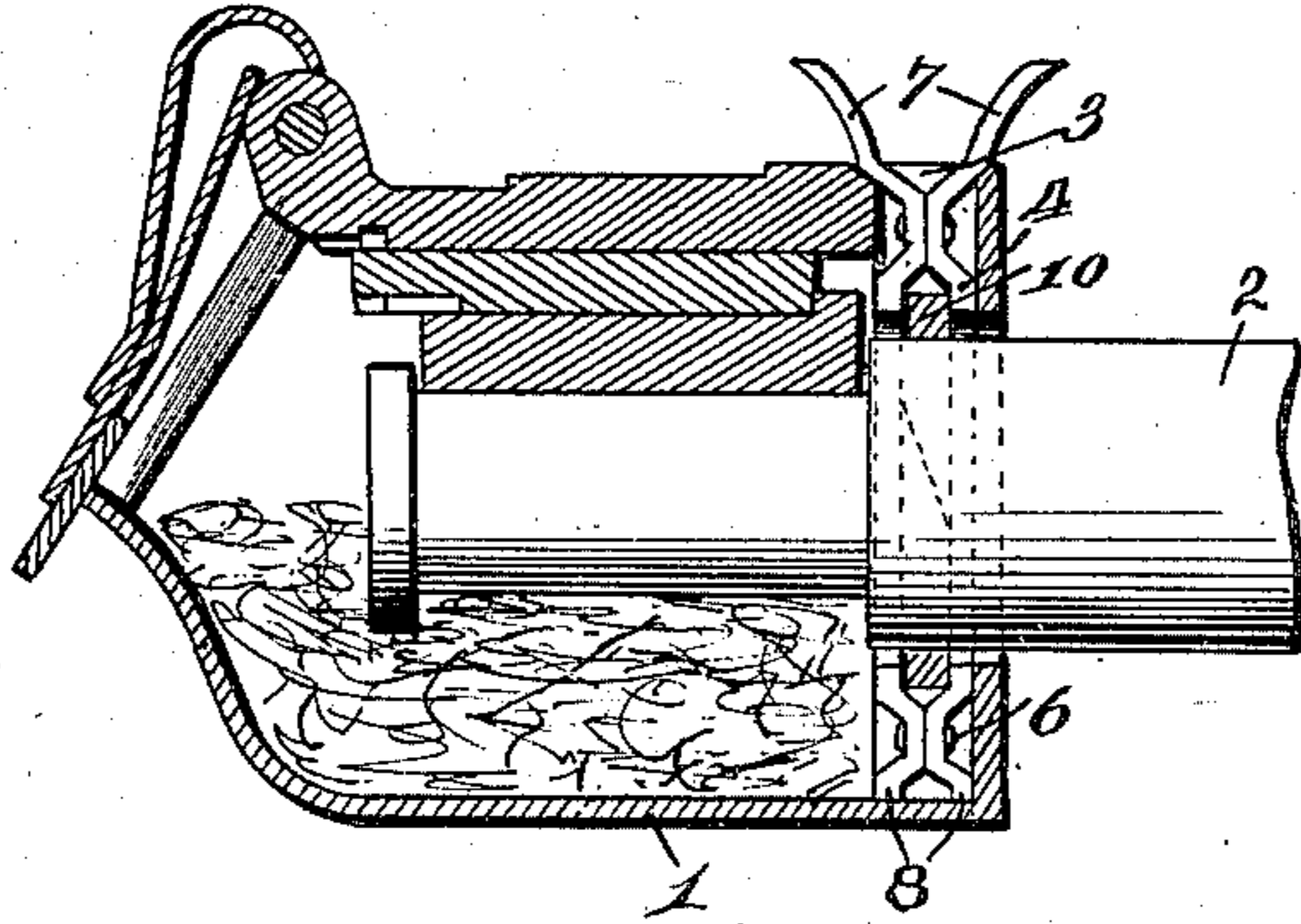
PATENTED OCT. 13, 1903.

G. H. S. SOULE.  
DUST GUARD.

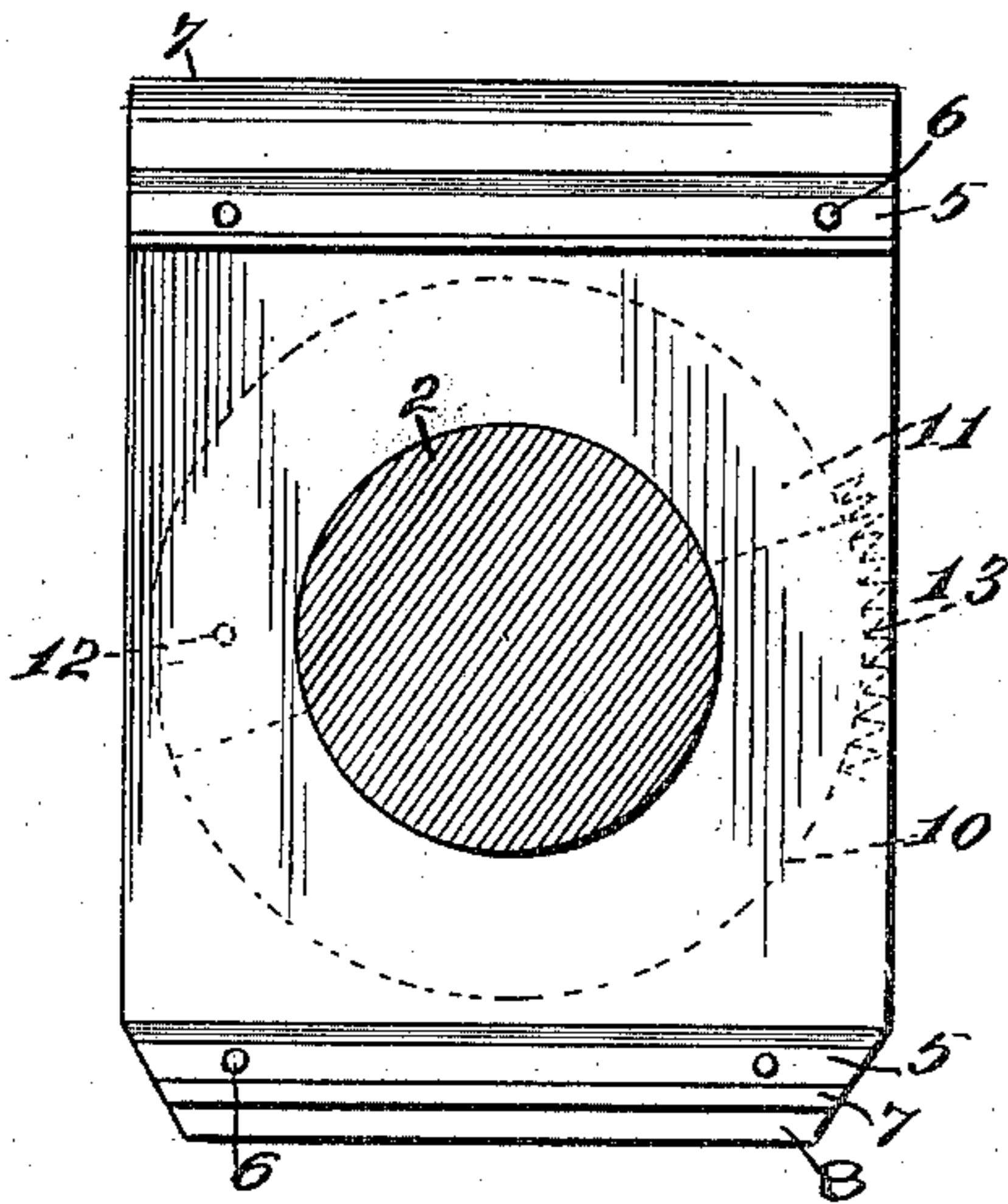
APPLICATION FILED JUNE 25, 1903.

NO MODEL.

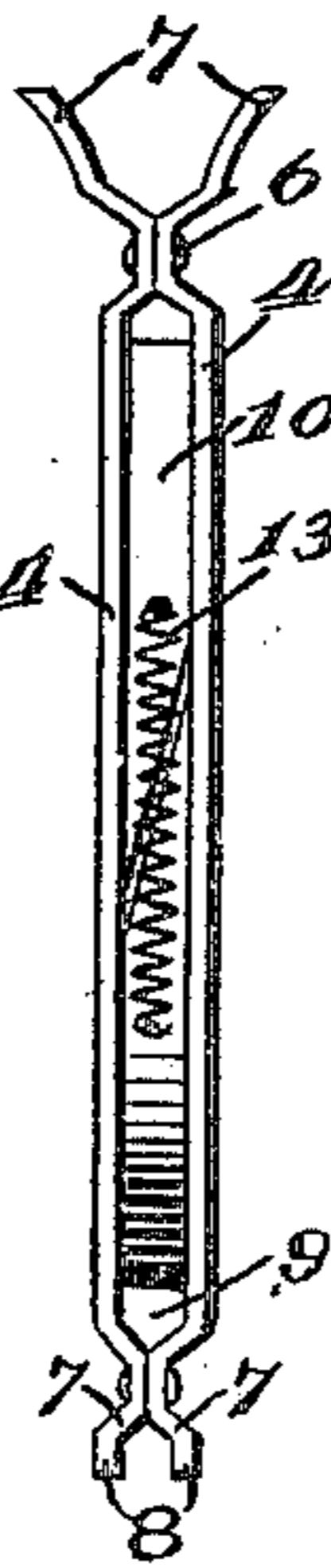
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



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## UNITED STATES PATENT OFFICE.

GEORGE H. S. SOULE, OF WOLLASTON, MASSACHUSETTS.

## DUST-GUARD.

SPECIFICATION forming part of Letters Patent No. 741,383, dated October 13, 1903.

Application filed June 25, 1903. Serial No. 163,145. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE H. S. SOULE, a citizen of the United States, residing at Wollaston, in the county of Norfolk and State of Massachusetts, 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.

This invention relates to improvements in dust-guards for journal-boxes.

The object of the invention is to provide means upon a specially-constructed guard for closing the chamber in a journal-box through which the guard is passed.

The invention consists in the novel construction and arrangements of parts, as is hereinafter fully described, illustrated in the accompanying drawings, and more particularly pointed out in the claims hereto appended.

In the drawings, Figure 1 is a longitudinal sectional view of a journal-box mounted upon an axle and provided with one of my improved dust-guards. Fig. 2 is a front elevation of the dust-guard, and Fig. 3 is a side view thereof.

Like numerals of reference designate corresponding parts throughout all the figures of the drawings.

Reference-numeral 1 indicates a journal-box of ordinary construction mounted upon an axle 2. In the journal-box 1 is formed a chamber 3, into which is passed the dust-guard, which is composed of corresponding plates 4. The said plates 4 are provided with channels 5, formed near their ends and through which are passed suitable rivets or bolts, as at 6, for securing the said plates 4 in an assembled position. Formed with the plates 4 and converging from the channels or bent portions 5 are arms 7, and at the lower edge of the guard are like members; but the outer extremities of the arms 7 are bent into parallel position, as at 8. Between the channels 5 of the plates 4 a compartment 9 is formed. When said plates are in an assembled position, said compartment is adapted to receive a packing 10. This packing 10 is formed by securing two semicircular pieces of fiber 11 in position by a rivet or any suitable means, as at 12, such connection being of a nature to

permit of a slight pivotable movement of the packing members 11. Said packing 10 is cut diagonally across its width, as shown in Fig. 3, and said edges are retained in a lapping position by means of a spiral spring 13.

When the guard is inserted in the chamber 3 of the journal-box 1, the diverging arms 7 completely close said chamber 3, and thereby form a cap or closing means secured integral with the said guard. The said diverging arms produce a bell-shaped receptacle for collecting and retaining any foreign substance that would otherwise settle upon the axle 2 within said slot if the said construction were not employed.

The diverging arms not only form the cover or cap for closing the top of the chamber, but also provide means whereby the dust-guard may be easily removed from the journal-box when the axle is withdrawn therefrom.

The diverging arms perform two functions, as stated in the prior paragraph, and while I have described and illustrated in the accompanying drawings the preferred form of the invention I may make such alteration in the constructing of the guard as shall fairly fall within the scope of the invention.

The packing, which is secured between the two plates, is adapted to encircle the axle, which is passed through the central aperture formed in the parallel plates.

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

1. A dust-guard comprising two plates secured together, there being arms formed integral with said plates and extending from one edge of said guard and at angles thereto, and a packing interposed between said plates.

2. A dust-guard comprising a pair of plates rigidly secured together and provided with diverging arms at their opposite ends, and a packing interposed between said plates.

3. A dust-guard comprising an apertured casing, a packing removably secured within the same, and a bell-shaped receptacle formed integral with said casing and extending therefrom at one of its edges.

4. In a device of the character described, the combination of parallel members secured in an assembled position, there being diverging arms secured to said members at one edge

and providing a cap and extracting means, and a packing secured between said members comprising an annular piece of fiber formed with lapping edges, and means for retaining  
5 said edges in a lapping position when the said guard is upon an axle.

5. A dust-guard comprising parallel members, diverging arms secured thereto at one edge, and at the opposite edge diverging arms  
10 formed integral therewith and bent into parallel positions.

6. A dust-guard comprising parallel members, a cap formed integral therewith, a packing retained between said members, and said cap providing means for extracting said guard  
15 from a journal-box.

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

GEORGE H. S. SOULE.

Witnesses:

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