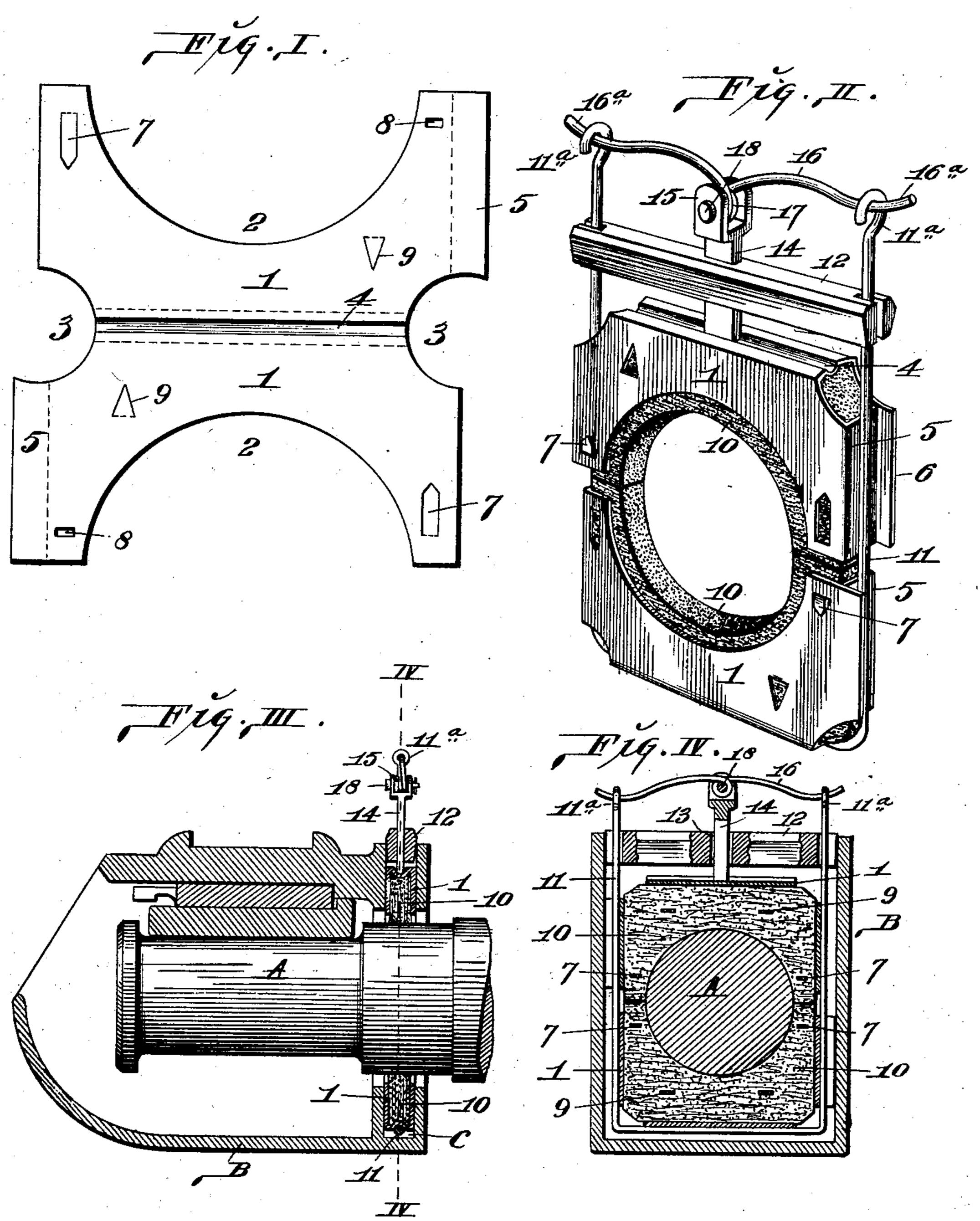
C. S. SHALLENBERGER.

DUST GUARD FOR JOURNAL BOXES.

(Application filed Dec. 23, 1901.)

(No Model.)



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CHARLES S. SHALLENBERGER, OF JACKSONVILLE, ILLINOIS, ASSIGNOR, BY MESNE ASSIGNMENTS, OF ONE-HALF TO MICHAEL J. HURLEY, OF ST. LOUIS, MISSOURI.

DUST-GUARD FOR JOURNAL-BOXES.

SPECIFICATION forming part of Letters Patent No. 701,629, dated June 3, 1902.

Application filed December 23, 1901. Serial No. 87,016. (No model.)

To all whom it may concern:

Be it known that I, CHARLES S. SHALLEN-BERGER, a citizen of the United States, residing in Jacksonville, in the county of Morgan 5 and State of Illinois, have invented certain new and useful Improvements in Dust-Guards for Journal-Boxes, of which the following is a full, clear, and exact description, reference being had to the accompanying to drawings, forming part of this specification.

My invention relates to that class of dustguards used in railway-car journal-boxes to inclose the car-axle journals and exclude dust from the journal-boxes and also prevent the 15 egress of the lubricant and journal-packing

contained by the box.

My invention consists in features of novelty hereinafter fully described, and pointed out

in the claims.

Figure I is a view of one of the sheet-metal blanks from which the dust-guard packingholders are constructed. Fig. II is a perspective view of my dust-guard. Fig. III is a vertical longitudinal sectional view taken 25 through a journal-box and my dust-guard therein. Fig. IV is a vertical cross-sectional

view taken on line IV IV, Fig. III.

A designates the journal of a car-axle, and B a journal-box containing a dust-guard-re-30 ceiving pocket C. In my dust-guard a pair of counterpart packing-holders are utilized to encircle the axle-journal and occupy the pocket in the journal-box B. The packingholders are constructed of sheet metal. 35 formed from blanks illustrated in Fig. I, each holder having a pair of side walls 1, provided with a semicircular recess 2, and also provided centrally at their ends with semicircular recesses 3. At the center of each holder and 40 extending longitudinally thereof between the recesses 3 is a groove 4. At each end of each packing-holder and projecting from the side walls thereof are extensions that are adapted to form flanges 5, that are bent toward the 45 opposing side wall of the holder to inclose the | ing-holders are placed one below and one 95 packing within the holder and permit the protrusion of guide-lips 6 beyond said flanges, as seen in Fig. II. The flanges 5 also serve to preserve the thickness of the packing-holders 50 by holding their side walls apart by bearing [

against the lips 6. The holders when formed up from the blank are held in shape by tongues 7, struck from the side walls of the holders and adapted to pass through the packing 10 in the holders and through apertures 8 in the 55 opposite side of the holder and clenched, as seen in Fig. II. 9 shows tongues struck from the side walls of the holders and adapted to enter the packing 10 to serve as retainers for the packing. The packing 10 is preferably 60 of felt, though any other desirable material may be utilized, and each piece of packing is semicircularly recessed, as seen in Fig. II, to fit against the journal of the axle to which the guard is applied, as seen in Figs. III and IV. 65

11 designates a stirrup or yoke in which the packing-holders are movably positioned and by which they are embraced. The guide-lips 6, projecting at each end of the holders at opposite sides, serve to direct the movement of 70 the packing-holders within the pocket C, so that they will ride vertically therein within

the stirrup 11.

12 designates a wedge-shaped cross-bar having forked ends that are fitted to the stirrup 75 11 and adapted to fit snugly in the open upper end of the dust-guard pocket C to exclude the ingress of dust or dirt through the entrance to said pocket. The cross-bar 12 is provided with a central opening 13, and pass- 80 ing through this opening is a fulcrum 14, that is adapted to seat in the groove 4 contained by the upper packing-holder. The fulcrum 14 is provided at its outer end with a forked head 15.

16 is a two-armed spring mounted in the forked head of the fulcrum 14 and provided with a central coil 17, through which a pin or bolt 18 passes to hold the spring to the fulcrum. The spring-arms 16^a of the spring 16 90 extend in opposite directions from the forked head of the fulcrum 14 and are seated in hooks 11^a at the ends of the stirrup 11.

In the practical use of the guard the packabove the axle-journal in the dust-guard pocket of the journal-box and mounted in the stirrup 11, the lower guard-holder being seated in said stirrup, with its groove 4 occupied by the lower end of the stirrup and the 100

upper holder having its groove 4 occupied by the fulcrum 14, resting therein, as stated. The spring 16 acts centrally to depress the fulcrum 14, and its arms act to lift the yoke 5 11, thereby carrying the packing-holders toward each other and holding them firmly, yet

yieldingly to the axle-journal, thereby producing a closure between the exterior and in-

terior of the journal-box.

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I claim as my invention—

1. The combination of a pair of packingholders, a stirrup holding said holders together, a two-armed spring provided with a central coil and having a detachable connec-

15 tion with the ends of the stirrup, a fulcrum supporting the coil of the spring and bearing loosely against the upper packing-holder, and means holding the fulcrum against movement.

2. The combination of a pair of packingholders, a stirrup holding said holders together, a cross-arm provided with a central opening, a fulcrum passing through the central opening of the cross-arm, and bearing

25 against one of the packing-holders, a twoarmed spring, mounted in the fulcrum and

the ends of said arms engaging with the ends

of the stirrups.

3. The combination of a pair of packingholders, a stirrup holding said holders to- 30 gether, a wedge-shaped cross-arm, provided with a central opening, and forked ends which receive the stirrup, a fulcrum provided with a forked head, passing through the central opening of the cross-arm, and bearing 35 against one of the packing-holders, a twoarmed spring having a central coil, mounted in the forked head of the fulcrum and the ends of said arms engaging with the ends of the stirrups.

4. In a dust-guard, the combination of a pair of packing-holders, packing in said holders, guide-lips carried by said holders, inturned flanges carried by said holders and adapted to bear against said lips, and means 45 for embracing said packing-holders, substan-

tially as described.

CHAS. S. SHALLENBERGER.

In presence of— M. P. SMITH, E. S. KNIGHT.