

**No. 638,077.**

**Patented Nov. 28, 1899.**

**F. THOMPSON.**  
**JOURNAL BOX FOR CAR AXLES.**

(Application filed Mar. 27, 1899.)

(No Model.)

Fig. 1.

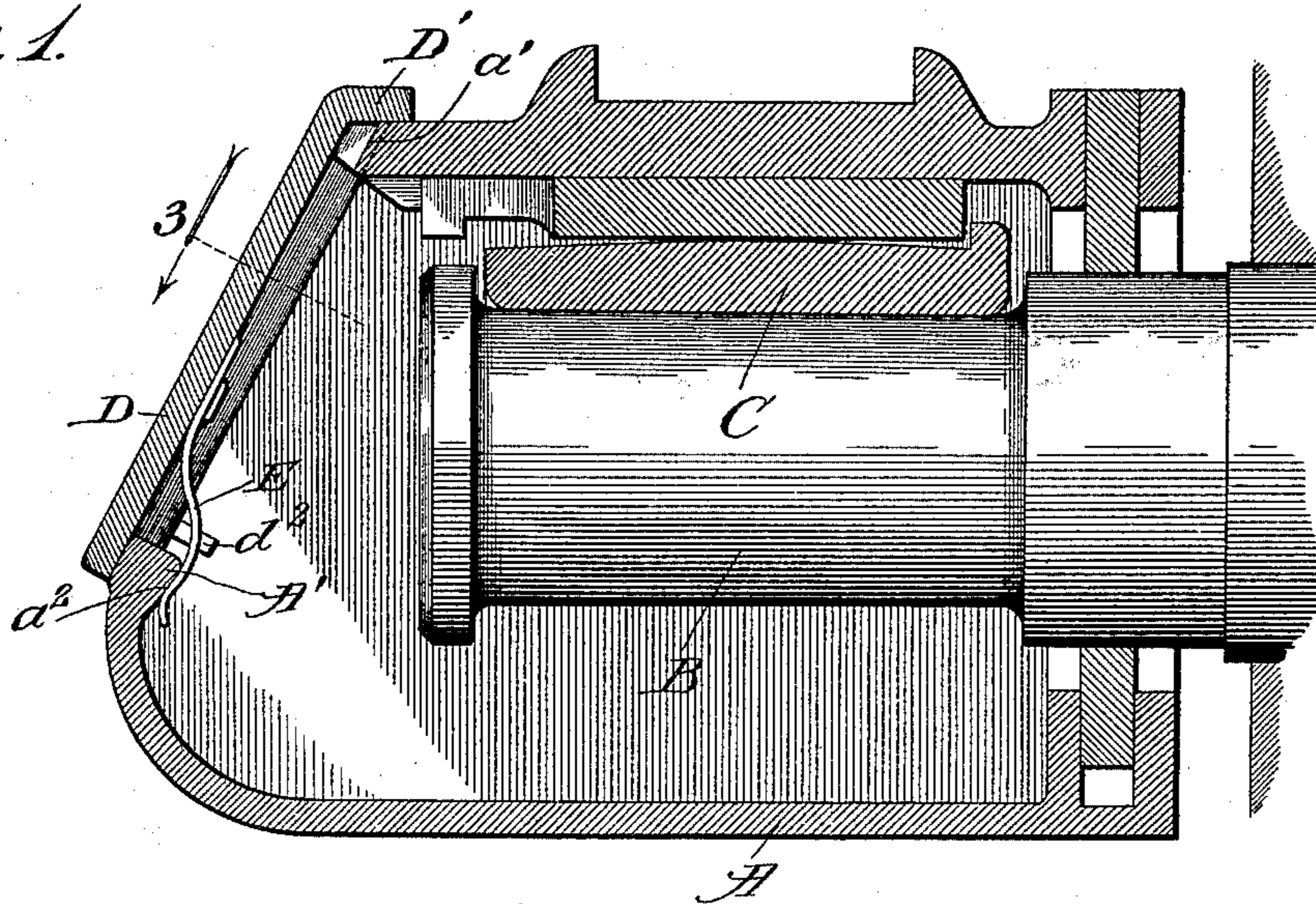


Fig. 2.

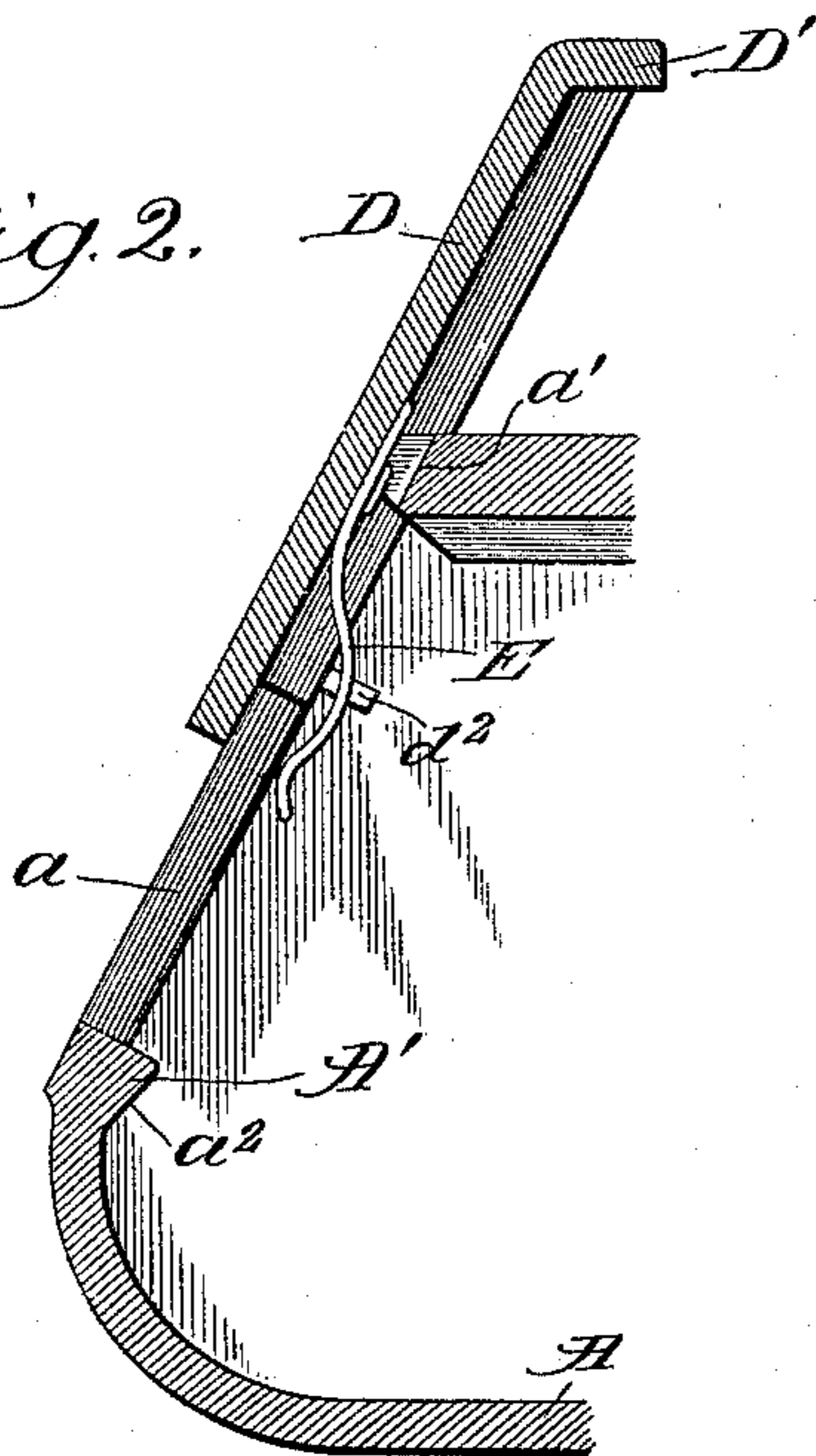
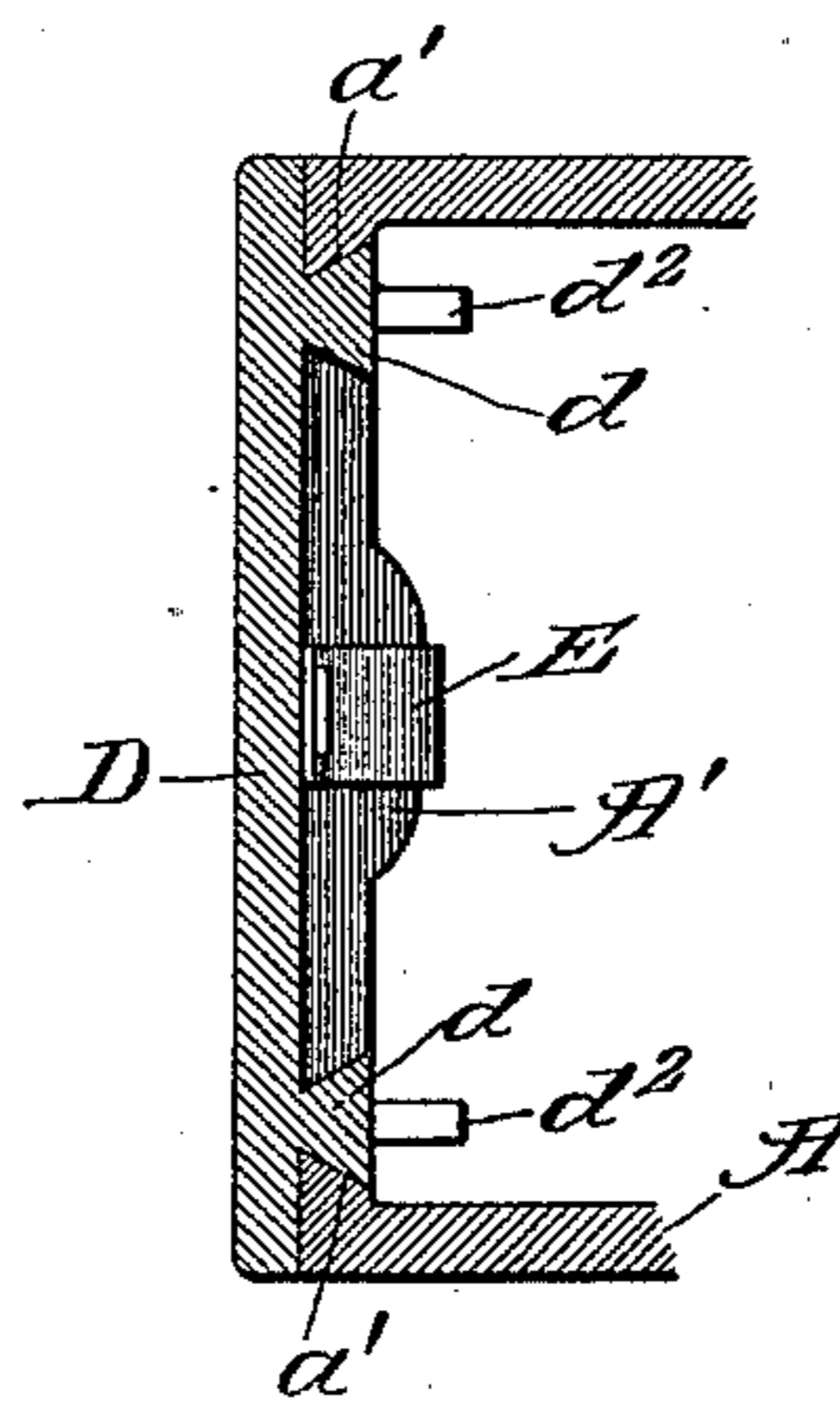


Fig. 3.



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# UNITED STATES PATENT OFFICE.

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## JOURNAL-BOX FOR CAR-AXLES.

SPECIFICATION forming part of Letters Patent No. 638,077, dated November 28, 1899.

Application filed March 27, 1899. Serial No. 710,609. (No model.)

*To all whom it may concern:*

Be it known that I, FRANK THOMPSON, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Journal-Boxes for Car-Axles, of which the following is a specification.

The object of my invention is to provide a journal-box for car-axles with a simple, economical, and efficient lid and means for holding the lid in its closed position.

The invention consists in the features, combinations, and details of construction herein-after described and claimed.

In the accompanying drawings, Figure 1 is a vertical sectional elevation of my improvements as attached to a car-axle; Fig. 2, a sectional detail view of a portion of the mechanism, showing the lid in an open position; and Fig. 3, a sectional detail taken on the line 3 of Fig. 1.

In the art to which this invention relates it is well known that the lids on these journal-boxes for car-axles are apt to be opened during the running of cars and due to the shocks caused by the car passing over uneven rails, and in some cases the lids are liable to be thrown off and lost. My invention, therefore, is intended to provide a journal-box with a lid which will remove the above-named objections and which will be simple to construct and efficient in operation.

In constructing my improvement I use a journal-box A of the desired size, shape, and strength and which, as shown in Fig. 1 of the drawings, is in operative engagement with an axle B and "brass" C. The journal-box is provided with the usual opening  $a$ , through which the waste and oil is inserted and removed, and in order to efficiently close this opening a lid D is provided, which is slidingly mounted in such box by means of the dovetail slides  $d$ , which are attached to the lid. These slides are arranged longitudinally on the lid when considering the movements of the lid—that is, the lids are arranged to move up and down and the slides are arranged in

the same direction and as a portion of the lid. The box portion is provided with dovetail grooves in the upper portion of the box, as at  $a'$ , into which these slides fit, and the box is so constructed that the lower portions of the slides abut against the lower portion of the box to limit the downward movement.

The lid is provided with an inwardly-projecting flange  $D'$  at the upper portion thereof, as shown in the drawings. In order to prevent the lid from being pulled out by ignorant parties and workmen, the lid is preferably provided with two stop-pins  $d^2$ , arranged, preferably, in the slides, so that as the lid is pulled up such pins may abut against the inner side of the upper wall of the box. These pins may be screw-threaded into the lid, so that they, and consequently the lid, may be removed whenever necessary.

In order to hold the lid in its closed position, the box is provided with a bead or lug  $A'$ , adjacent to the lower portion of the oiling-opening, and the lid is provided with a flat steel spring E, so constructed that when the lid is closed, as shown in Fig. 1, the spring passes over this lug or bead and sliding down its inclined plane  $a^2$  holds the lid yieldingly in its closed position, so that such lid cannot be opened until extraneous force is used.

I claim—

In a journal-box for car-axles, the combination of a box portion provided with one or more dovetail grooves arranged substantially in a vertical plane, a slidable lid provided with one or more dovetail slides engaging the grooves in the box portion so that the lid may move in a substantially vertical plane, stop mechanism to limit the movements of the lid, a lug or bead on the box, and a spring on the lid adapted to engage the lug or bead and yieldingly hold the parts in closed position, substantially as described.

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Witnesses:

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