

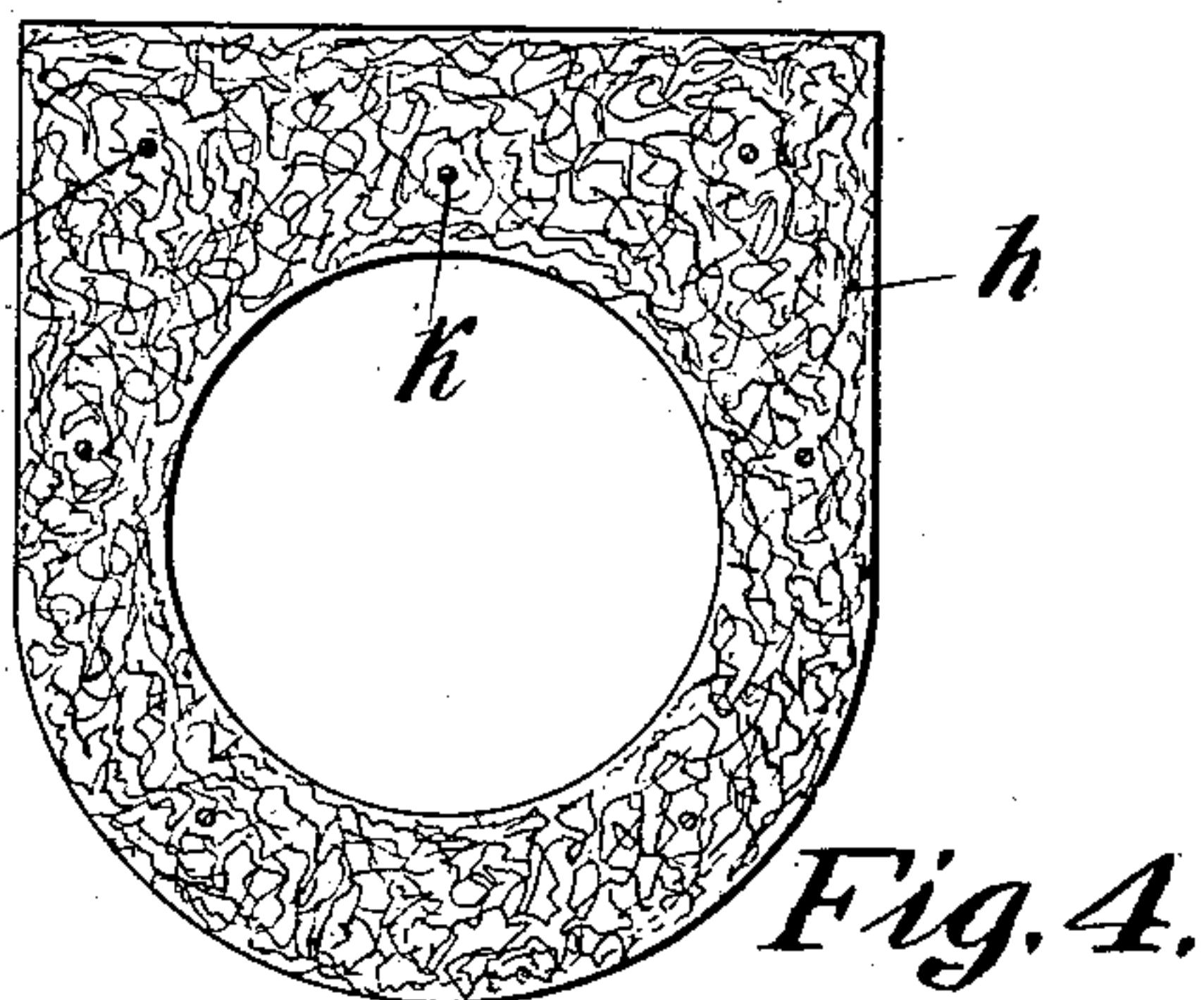
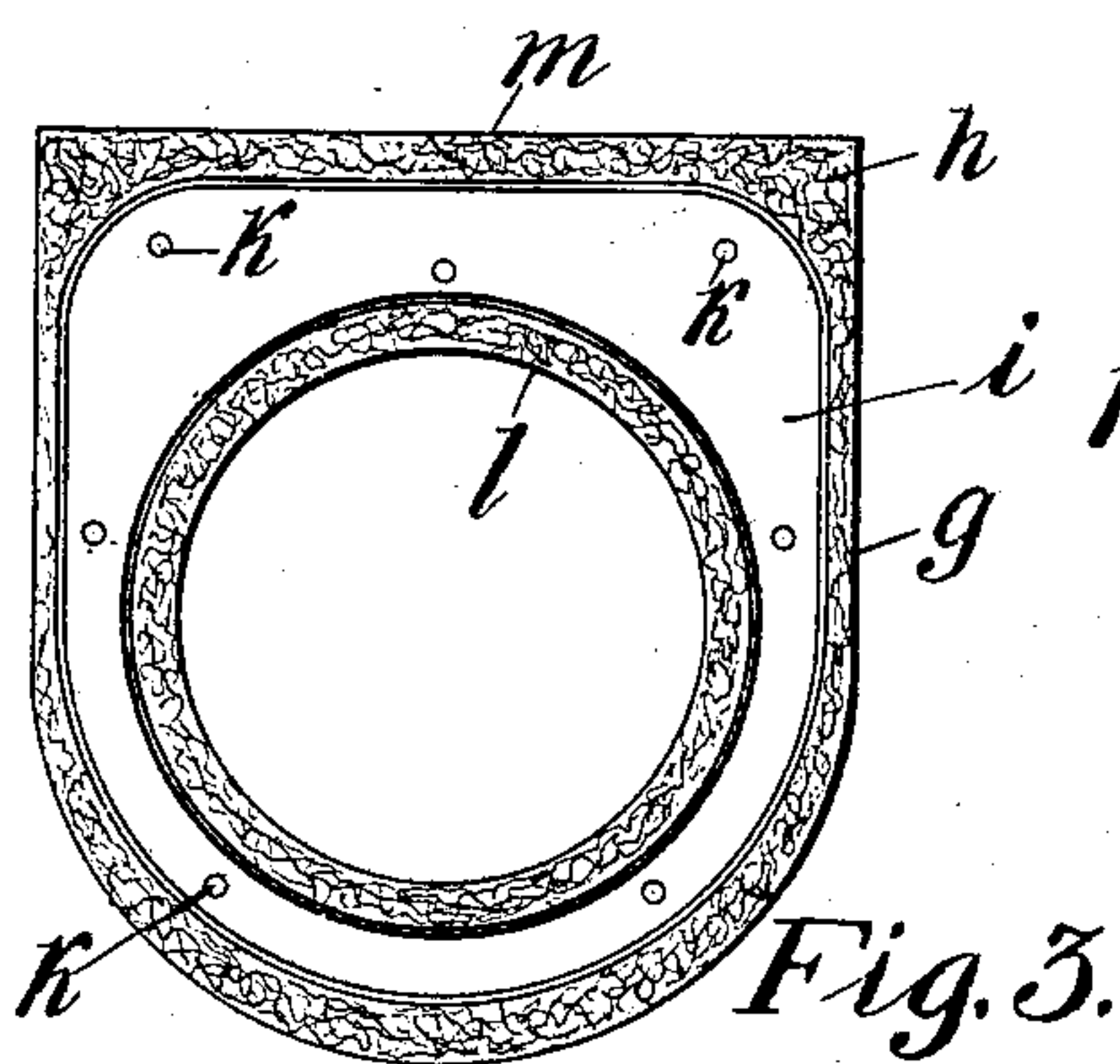
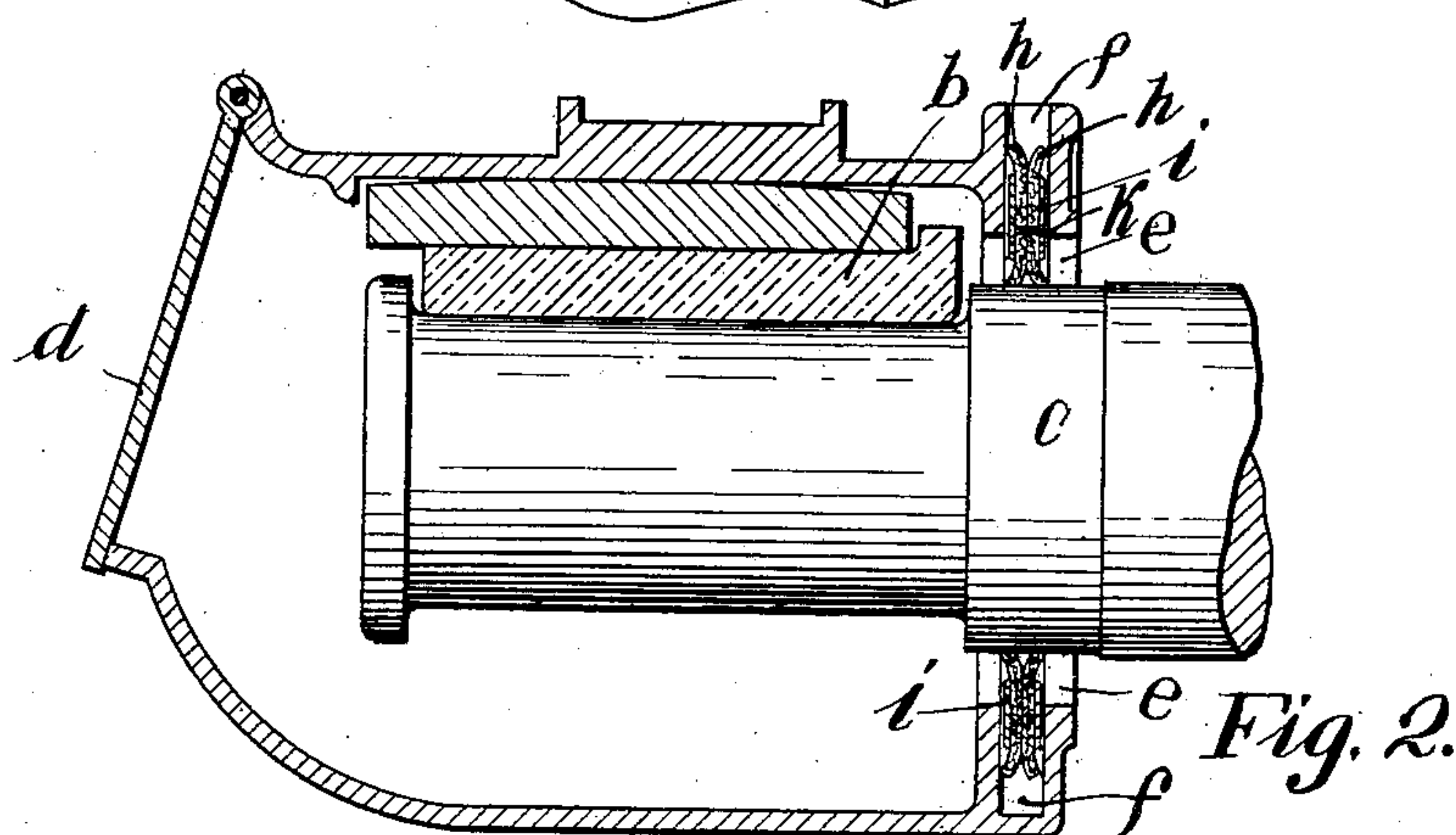
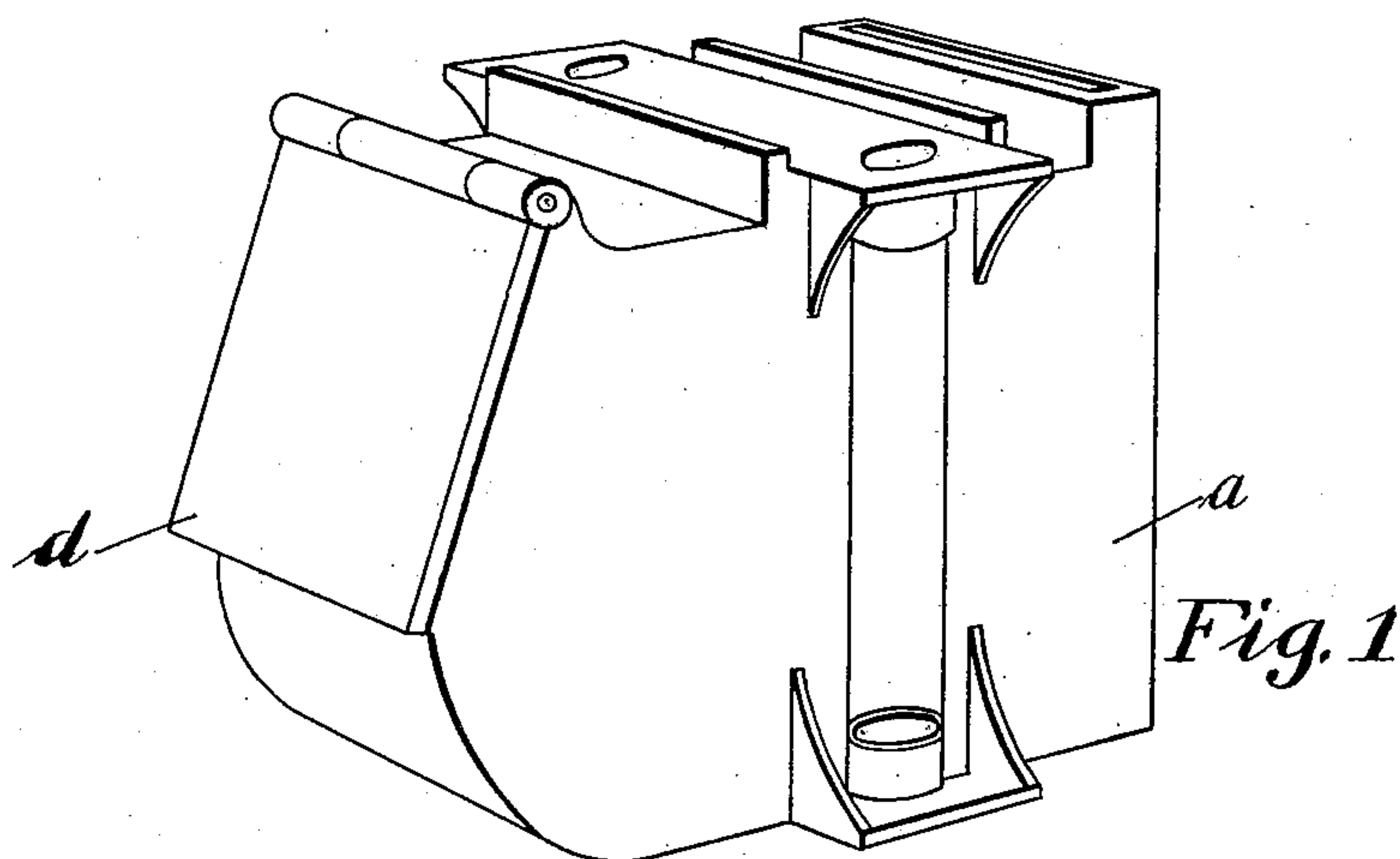
No. 739,842.

PATENTED SEPT. 29, 1903.

E. DENEGRÉ.
CAR AXLE BOX.

APPLICATION FILED MAY 22, 1902.

NO MODEL.



WITNESSES

L. W. Howard

Lynn A. Williams

Inventor
Edward Denegre,

By

Charles A. Brown & Crapp
Attorneys

UNITED STATES PATENT OFFICE.

EDWARD DENEGRÉ, OF CHICAGO, ILLINOIS, ASSIGNOR TO McCORD & COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF NEW JERSEY.

CAR-AXLE BOX.

SPECIFICATION forming part of Letters Patent No. 739,842, dated September 29, 1903.

Application filed May 22, 1902. Serial No. 108,550. (No model.)

To all whom it may concern:

Be it known that I, EDWARD DENEGRÉ, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Car-Axle Boxes, (Case No. 1,) of which the following is a full, clear, concise, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

My invention relates to car-axle boxes, and has for its object the provision of an improved dust-guard for preventing the access of foreign material to the axle and the surrounding wall of the car-axle box. To this end I construct the box with a vertical slot communicating with the bore or opening through which the car-axle passes. There is provided in this slot a movable dust-guard that is composed of felt, this felt being preferably assembled in two layers and fanned at its inner and outer peripheries or edges, so as to engage the car-axle at its inner periphery and the walls of the vertical slot at its outer periphery to prevent the access of dust through the slot or between the car-axle and the surrounding wall of the box. The layers of felt are preferably united by means of retaining-plates, between which the felt layers are secured, rivets passing through the retaining-plates and the interposed layers of felt.

I will explain my invention more fully by reference to the accompanying drawings, in which—

Figure 1 is a perspective view of a car-axle box to which the device of my invention may be applied. Fig. 2 is a central vertical sectional view of the car-axle box, showing the car-axle in place, these elements being associated with a suitable dust-guard. Fig. 3 is a side elevation of the dust-guard removed from the car-axle box, and Fig. 4 is a sectional view in elevation on the plane in which the layers of felt meet.

Like parts are indicated by similar characters of reference throughout the different figures.

The type of box *a* to which the invention may be applied is any that may be desired,

being provided with the usual bearing *b*, engaging the outer end of the car-axle *c*, this outer end of the car-axle projecting into the box that contains waste saturated in oil or other suitable means for effecting lubrication of the journal end of the car-axle. The outer end of the car-axle box is provided with the usual lid *d* for permitting inspection of and access to the interior of the box. The inner end or vertical wall of the car-axle box is provided with an enlarged opening *e*, through which the car-axle passes, there being provided also a vertical slot *f*, which is open at the top and extends beneath and on both sides of the car-axle. There is disposed within this vertical slot or opening a dust-guard *g*, which is preferably made of two layers *h h*, that are united by means of clamping-plates *i*, having plane inner faces, the layers of felt being interposed between the clamping-plates and fastened together by means of rivets *k*, passed through the clamping-plates and the interposed layers of felt. The clamping-plates are of such a size as to permit the layers of felt to extend inwardly at *l* and outwardly at *m*, so that the car-axle will be relieved of frictional contact with the plates and whereby the layers of felt may be fanned or enlarged, as indicated, to effect a thorough closure of the car-axle box, as the outer border portions of the layers of felt will engage the walls of the vertical slot, while the inner peripheries of the layers of felt will engage the car-axle.

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

1. A dust-guard, comprising a suitable packing having an aperture for the axle and a frame comprising two clamping-plates plane on their inner faces one on each side of the packing, each plate being located between the inner and outer edges of the packing, and means for clamping the plates together so as to compress the packing to cause flaring or fanning of the edges thereof laterally beyond both the inner and outer edges of said clamping-plates; substantially as described.

2. A dust-guard, comprising a suitable

packing having an aperture for the axle, a
clamping-plate plane on its inner face on each
side of the packing smaller than said packing
so that the plates lie between the inner and
5 outer edges of the packing, and rivets for
clamping the plates closely together so as to
compress the packing to cause flaring or fan-
ning of the edges thereof laterally beyond

both the inner and outer edges of said clamp-
ing-plates; substantially as described. 10

In witness whereof I hereunto subscribe my
name this 19th day of May, A. D. 1902.

EDWARD DENEGRÉ.

Witnesses:

HARVEY L. HANSON,

JOHN STAHR.