

No. 708,492.

Patented Sept. 2, 1902.

J. S. PATTEN.
DUST GUARD.

(Application filed June 3, 1901.)

(No Model.)

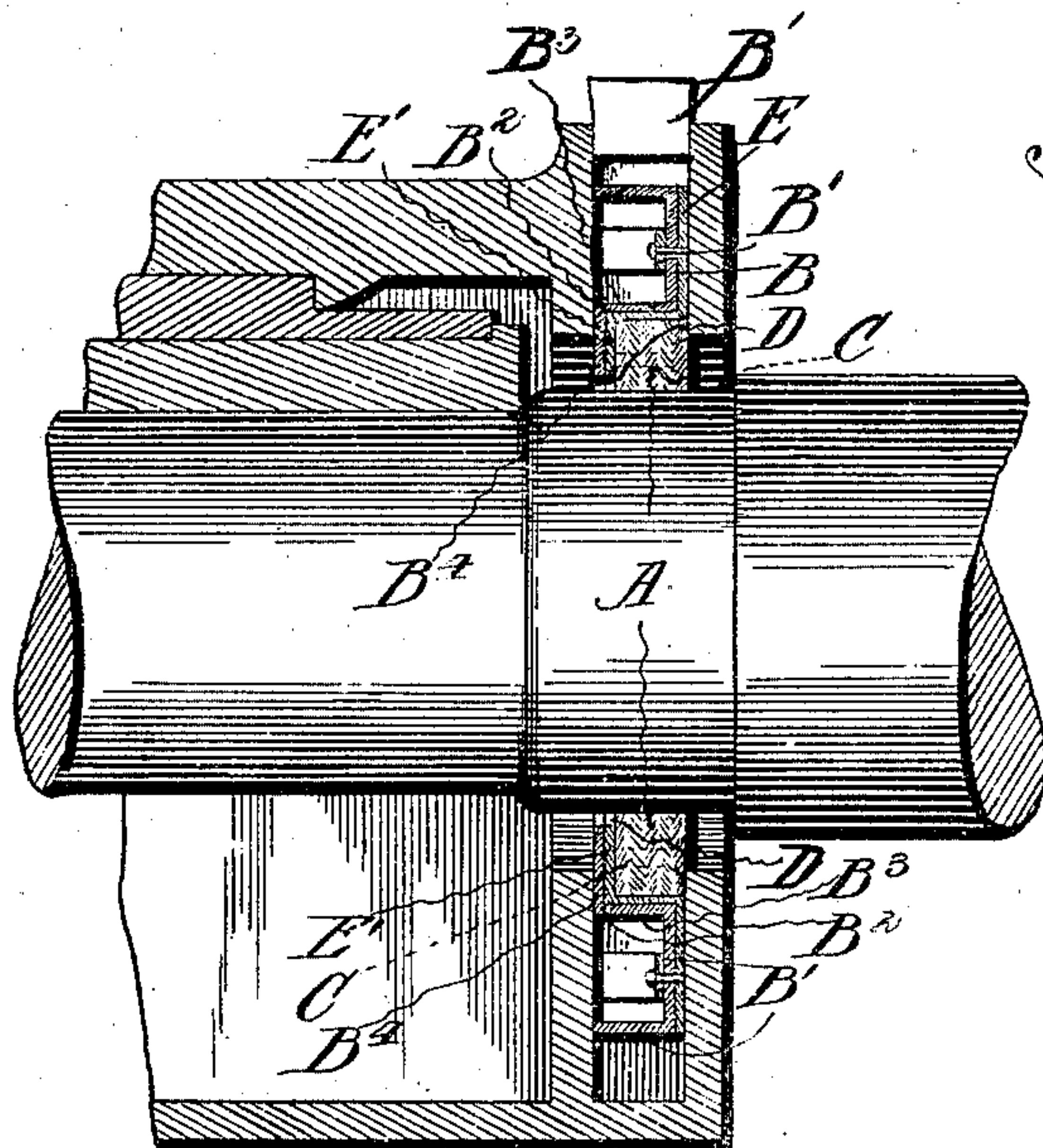


Fig. 1.

Fig. 2.

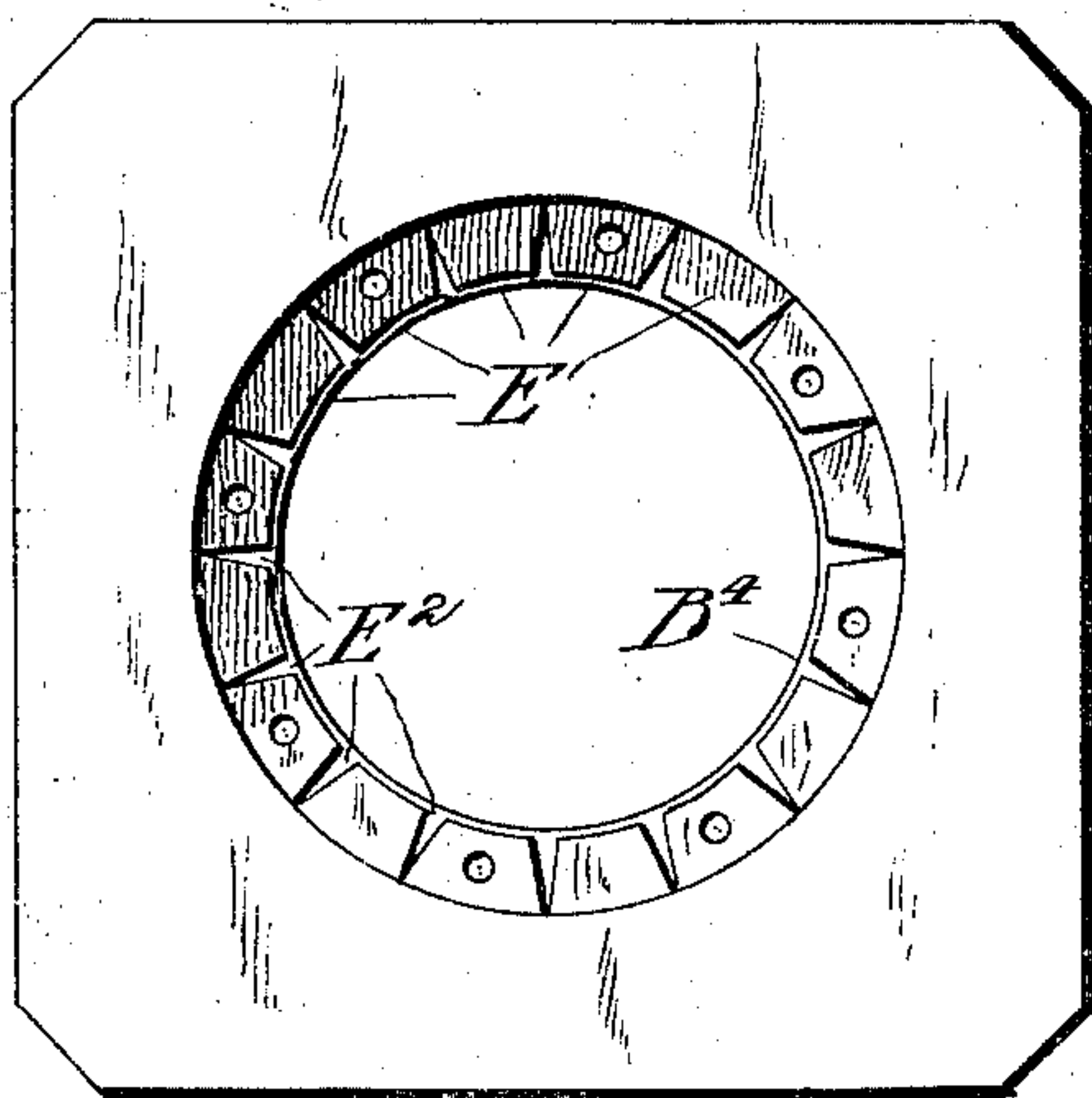


Fig. 3.

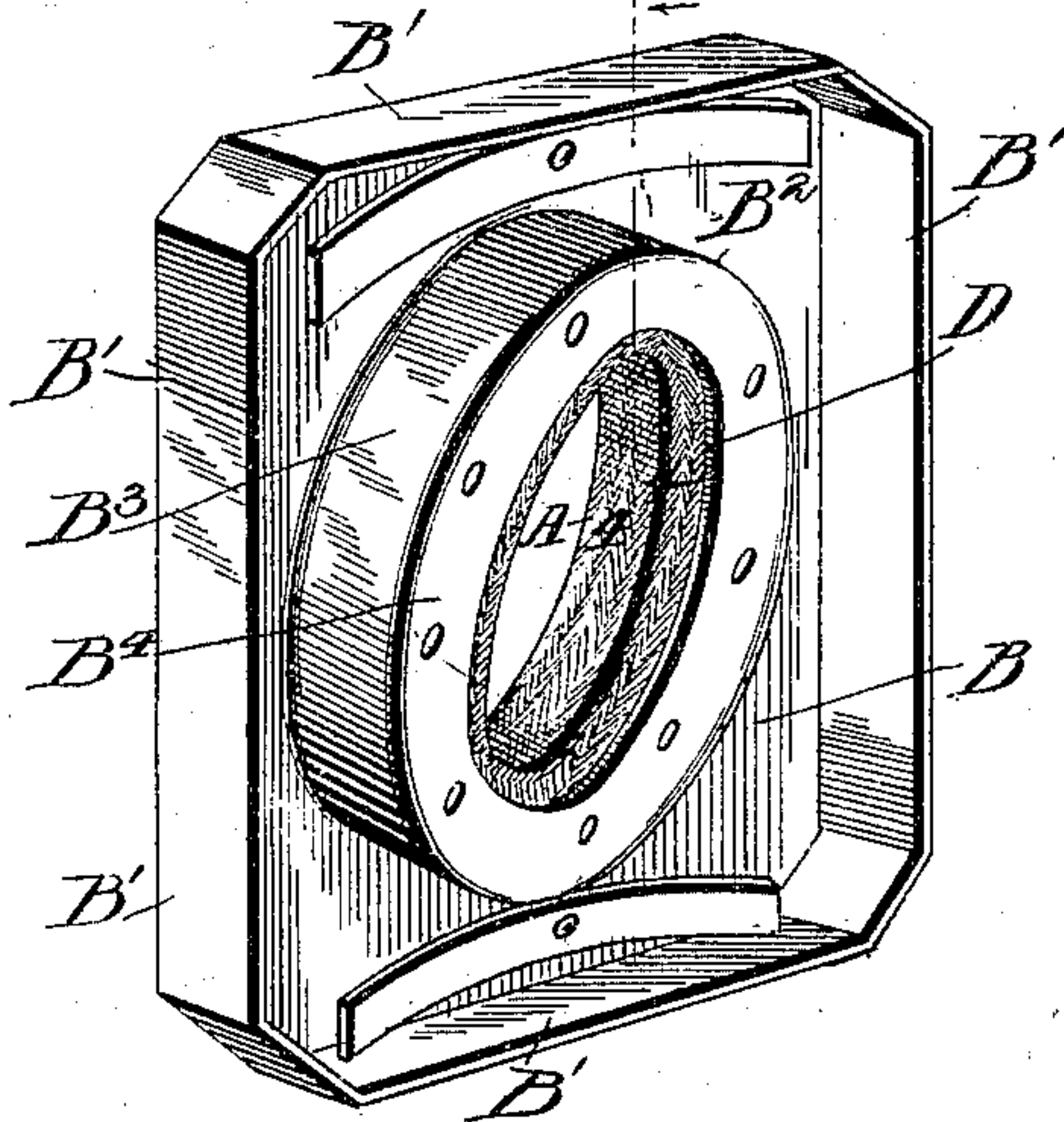


Fig. 4.



WITNESSES:

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JAMES S. PATTEN, OF BALTIMORE, MARYLAND, ASSIGNOR TO METAL DUST GUARD COMPANY OF BALTIMORE CITY, A CORPORATION.

DUST-GUARD.

SPECIFICATION forming part of Letters Patent No. 708,492, dated September 2, 1902.

Application filed June 3, 1901. Serial No. 62,988. (No model.)

To all whom it may concern:

Be it known that I, JAMES S. PATTEN, a citizen of the United States, residing at Baltimore, in the State of Maryland, have made certain new and useful Improvements in Dust-Guards, of which the following is a specification.

My invention is an improvement in dust-guards for use in car-axle boxes, and has for an object to provide a novel construction of guard which can be used in any ordinary car-axle box adapted for the reception of the ordinary guards now generally used; and the invention consists in certain novel constructions and combinations of parts, as will be hereinafter described, and pointed out in the claims.

In the drawings, Figure 1 is a sectional view of my improved guard in place in a car-axle box, parts being broken away. Fig. 2 is a face view of the carrying-plate with the canvas sheet applied. Fig. 3 is a detail perspective view of the complete guard from the outer side thereof or side which is away from the wheel in the use of the guard, and Fig. 4 is a detail cross-section on about line 4 4 of Fig. 3.

The packing-section A is in the form of an annulus or ring of suitable yielding packing material, preferably plaited flax. The carrier for the packing-section is in the form of a frame pressed from a sheet of metal and composed of the face-plate B, having the bracing-flange B' extended around its outer edge and at right angles to the plane of the face-plate and provided at its center with the pocket B² for the section A, such pocket having the peripheral wall or plate B³ and the side plate B⁴ and the packing-section being fitted in the said pocket and suitably secured, it may be, by rivets C, as shown. The wall B³ resists the outward pressure on the packing-section, while the side plate B⁴ holds the same from displacement in the direction away from the wheel.

It will be noticed that the flange B' and the pocket B² both project to the same side of the face-plate B, and the packing-section is preferably made of such thickness that it will project out of the pocket and beyond the face-plate B, as shown in Fig. 4, so it can

pack at D against the outer wall of the recess in the car-axle box. (See Fig. 1.) By preference I provide a cover-sheet E, of fabric, it may be canvas or other suitable material, which is fitted over the outer face of the plate B, is depressed within the pocket B², and has the tongues E', separated by the slits E² and fitting against the side plate B⁴ of the pocket, as shown in Figs. 1, 2, and 4, so the said cover-sheet may be secured at its central portion by the rivets C, which operate to secure the packing-section, as before described.

It will be noticed that the edge flange B' operates to stiffen the carrier at its outer edge, while the pocket B² braces the frame at its center and holds the packing-ring in position for use. The packing-sheet E fits against the wall of the recess in the car-axle box next to the wheel and prevents dust from passing up along the outer face of the plate B in the use of the device.

The carrier may be made of such edge contour as to fit in the ordinary car-axle boxes now generally used.

Manifestly when the packing-section and cover-sheet are worn or otherwise useless they can be readily renewed in the same guard.

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

1. The improvement in dust-guards herein described consisting of the annular packing-section, the carrier therefor formed with a face-plate, a pocket having a peripheral wall or outer plate, and a side plate, and the cover-sheet fitted over the face-plate and having a portion fitting within the pocket, the rim-flange extending from the outer edge of the face-plate in the same direction as the pocket, and means for securing the annular packing-section within the pocket of the carrier substantially as set forth.

2. A dust-guard comprising a carrier having a face-plate and a pocket for holding the packing-section, the packing-section, and the cover-sheet extending within the pocket and thence over the face-plate outside the packing-section substantially as set forth.

3. A dust-guard comprising the carrier having a face-plate and a pocket and provided with a side plate, the cover-sheet extending

over the face-plate and fitting within the pocket and having a slitted portion lying against the side plate of the pocket, the packing-ring fitting in said pocket, and the rivets
5 securing the packing-ring and the slitted portions of the cover-sheet to the side plate of the pocket substantially as set forth.

4. A dust-guard comprising an annular packing-ring, and a carrier therefor composed
10 of a sheet-metal plate having a pocket for the packing-ring, and a bracing-flange at its outer edge, and fastening means for securing the packing to the side plate of said pocket substantially as set forth.

15 5. In a dust-guard a carrier for a packing-ring composed of a sheet-metal plate provided with a pocket having a side plate B^4 for the

packing-ring and having at its outer edge a bracing-flange projecting in the same direction as the said pocket substantially as set forth. 20

6. In a dust-guard a packing-ring carrier comprising a plate having a laterally-projecting pocket provided with a side plate B^4 to receive a packing-ring and provided at its outer
25 edge with a lateral flange projecting in the same direction as the pocket and the springs secured to the plate and housed within the space between the pocket and the outer flange substantially as set forth.

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Witnesses:

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