(No Model.)

D. M. WHITE & J. HITCHCOCK.

SAND BAND.

No. 279,682. Patented June 19, 1883.

Fig: 1.

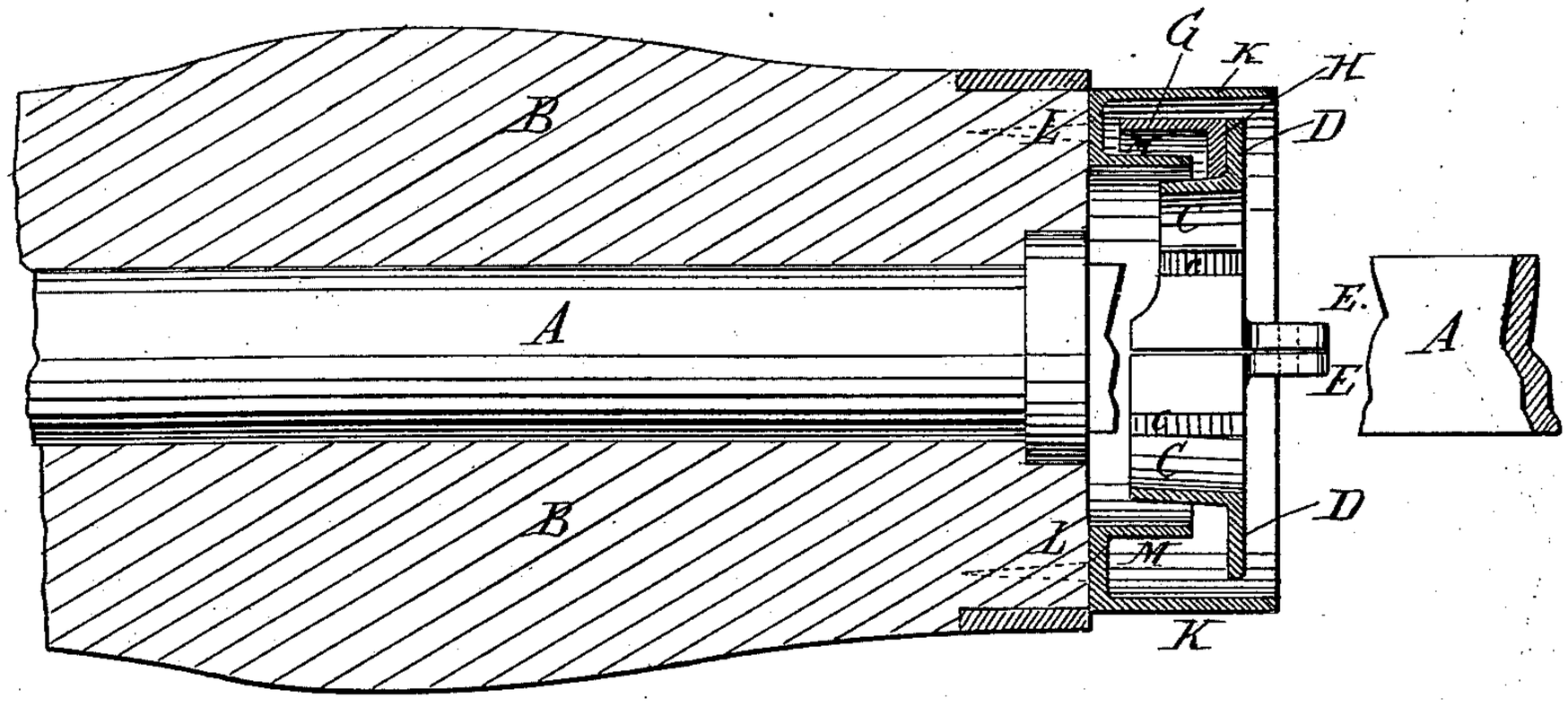


Fig: 2.

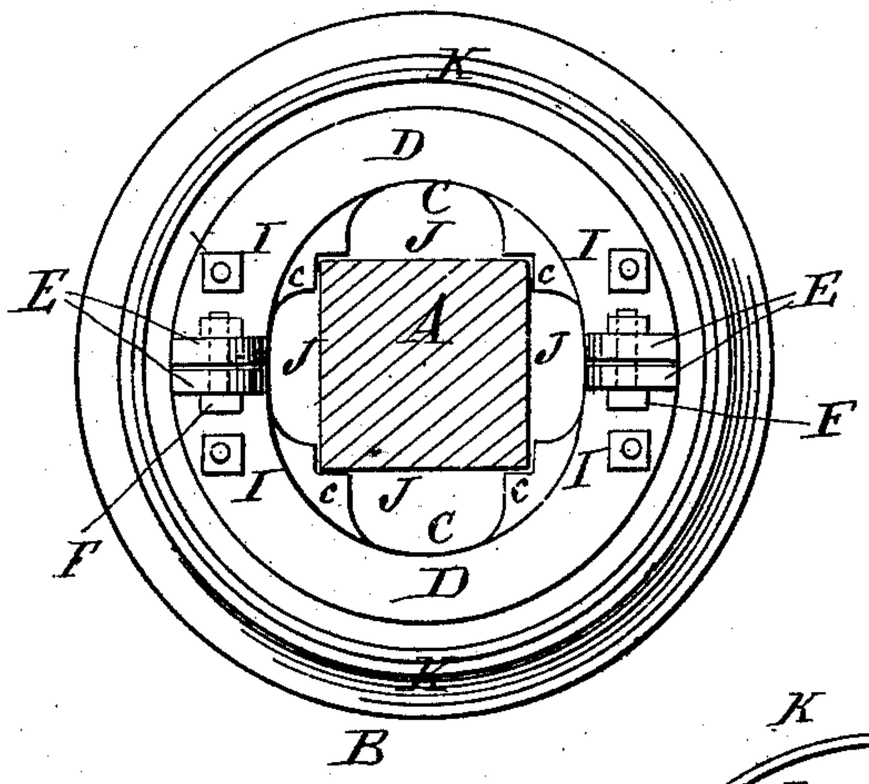


Fig: 3.

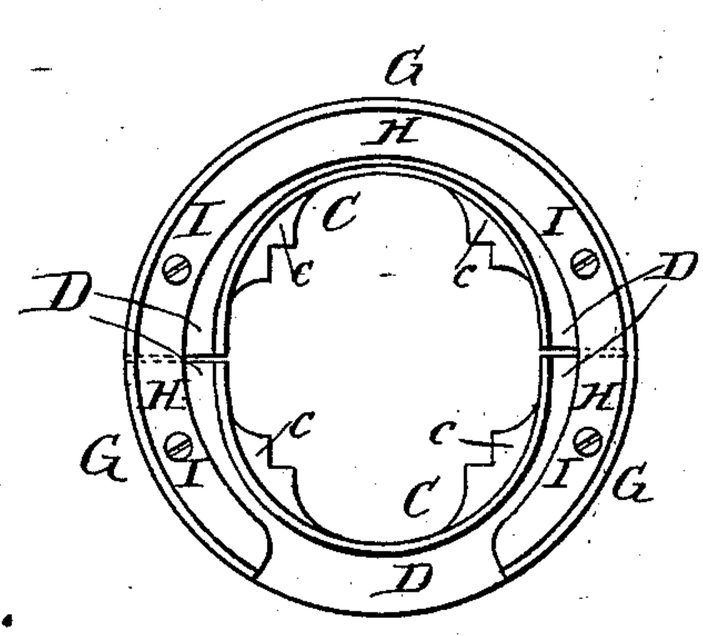
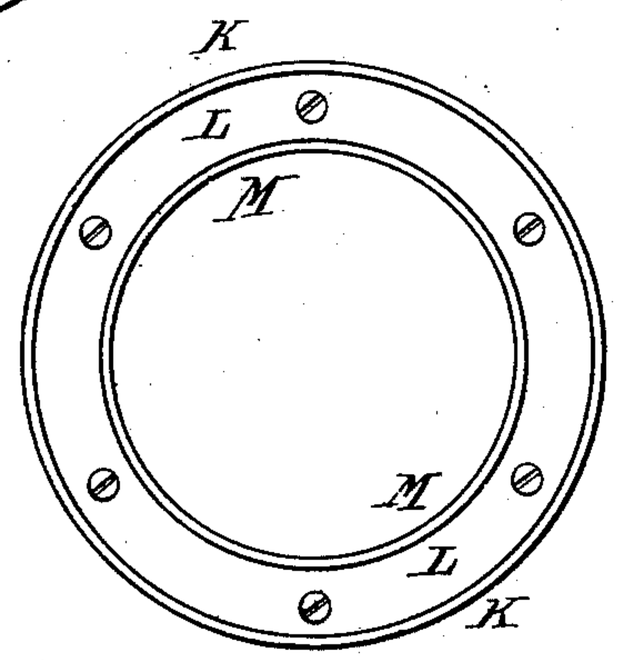


Fig: 4.



WITNESSES:

Chas. Nida.

C. Sedgwick

INVENTOR:

D. M. White

J. Hitchcock

BY Munn & Co

ATTORNEYS.

N. PETERS, Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

DELOS M. WHITE, OF HUDSON, WISCONSIN, AND JONATHAN HITCHCOCK, OF ST. PAUL, MINNESOTA.

SAND-BAND.

SPECIFICATION forming part of Letters Patent No. 279,682, dated June 19, 1883.

Application filed April 11, 1883. (No model.)

To all whom it may concern:

Be it known that we, DELOS M. WHITE, of Hudson, in the county of St. Croix and State of Wisconsin, and JONATHAN HITCHCOCK, of St. Paul, in the county of Ramsey and State of Minnesota, have invented a new and useful Improvement in Sand-Bands, of which the following is a full, clear, and exact description.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a sectional side elevation of our improvement. Fig. 2 is a rear elevation of the same. Fig. 3 is a front elevation of the parts attached to the axle. Fig. 4 is a rear elevation of the parts attached to the hub.

Our invention relates to improvements in sand-bands adapted to be applied to thimble-skein axles; and it consists in the peculiar arrangement and construction of parts, as hereinafter more fully set forth, and pointed out in the claim.

A represents an axle or journal, and B represents a hub or bearing.

C is a band or collar, which is made in two equal or nearly equal parts, to adapt it to be applied to a thimble-skein axle, and which has an outwardly-projecting ring-flange, D, upon its rear edge. Upon the adjacent ends of the parts of the flange D are formed lugs E, which are perforated to receive the bolts F to draw the parts of the collar C together around the axle.

G is a band or collar, which has an inwardly-projecting flange, H, around its rear edge, to rest and fit against the forward side of the flange D. The flanges D H are perforated to receive the bolts I, by which the collars or bands C G are connected with each other. The band or collar G is made of such a size that its outer surface will be flush with the outer edge of the flange D, as shown in Fig. 3 and in the upper part of Fig. 1. The band or collar G is made with an opening in it at the lower side of the axle, the said opening being from one to two inches wide, according to the size of the axle.

Upon the inner surface of the collar or band C are formed four longitudinal ribs or projections, *c*, which are grooved longitudinally to receive the angles of the axle to support the said band and form four chambers, J, to receive dust.

In case the improvement be applied to a round axle, the projections or ribs *c* rest against the sides of the said axle, and thus form the dust-chambers J.

When the hub B is in place upon the axle A, a band or collar, K, surrounds the band or collar G. Upon the forward edge of the band or collar K is formed an inwardly-projecting flange, L, which is secured to the inner end of the hub B by screws or other suitable means. The flange L is made of such a breadth that the band or collar M, formed upon its inner edge, will surround the collar C, as shown in Fig. 1. The collar K is made of such a length that its free edge will project a little beyond the flange D, and the collar or band M is made of such a length that its free edge will not reach to the flange H, as shown in Fig. 1. With this construction any dust that may enter between the collars or bands K G will pass around the forward edge of the collar or band G, will pass back between the bands or collars G M, and will slide downward around the collar or band C, pass through the opening in the lower part of the collar or band G, and escape from the edge of the lower part of the collar or band K. With this construction dust will be prevented from finding its way into the space between the journal and its bearing.

Having thus fully described our invention, we claim as new and desire to secure by Letters Patent—

A journal and bearing protector constructed substantially as herein shown and described, and consisting of the collar C, made in two parts, with interior grooved ribs, *c*, and dust-chambers J, and provided with an outwardly-projecting flange D and rearwardly-projecting lugs E, the collar G, having inwardly-projecting flange H, and the double collar K L M, as set forth.

DELOS M. WHITE.
JONATHAN HITCHCOCK.

Witnesses:
F. H. HARVEY,
W. B. KELLOGG.