

C. KERSTEN.
DUST PROOF COVER FOR EXTRACTORS.
APPLICATION FILED DEC. 15, 1904.

FIG. 1.

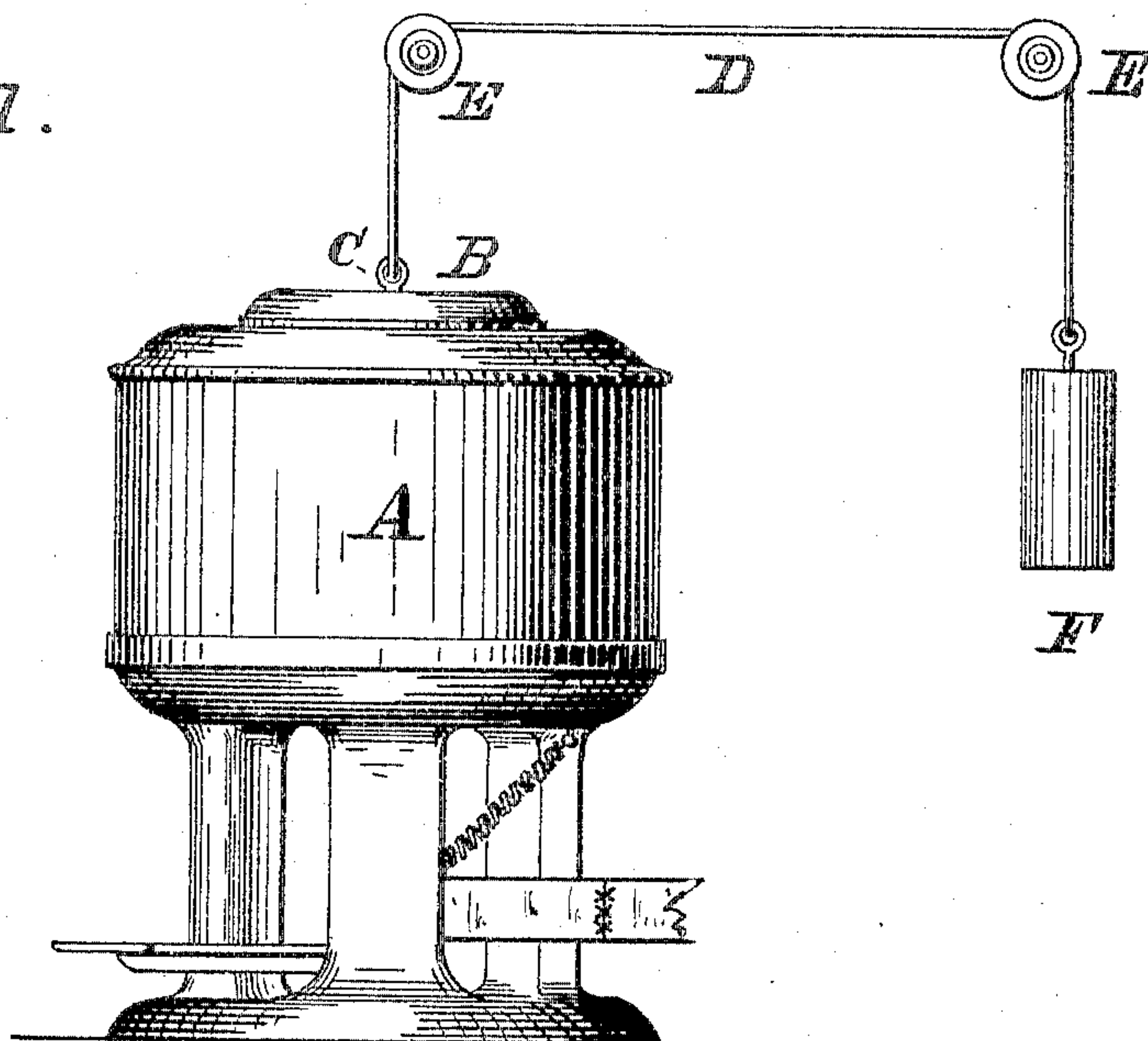


FIG. 2.



FIG. 3.

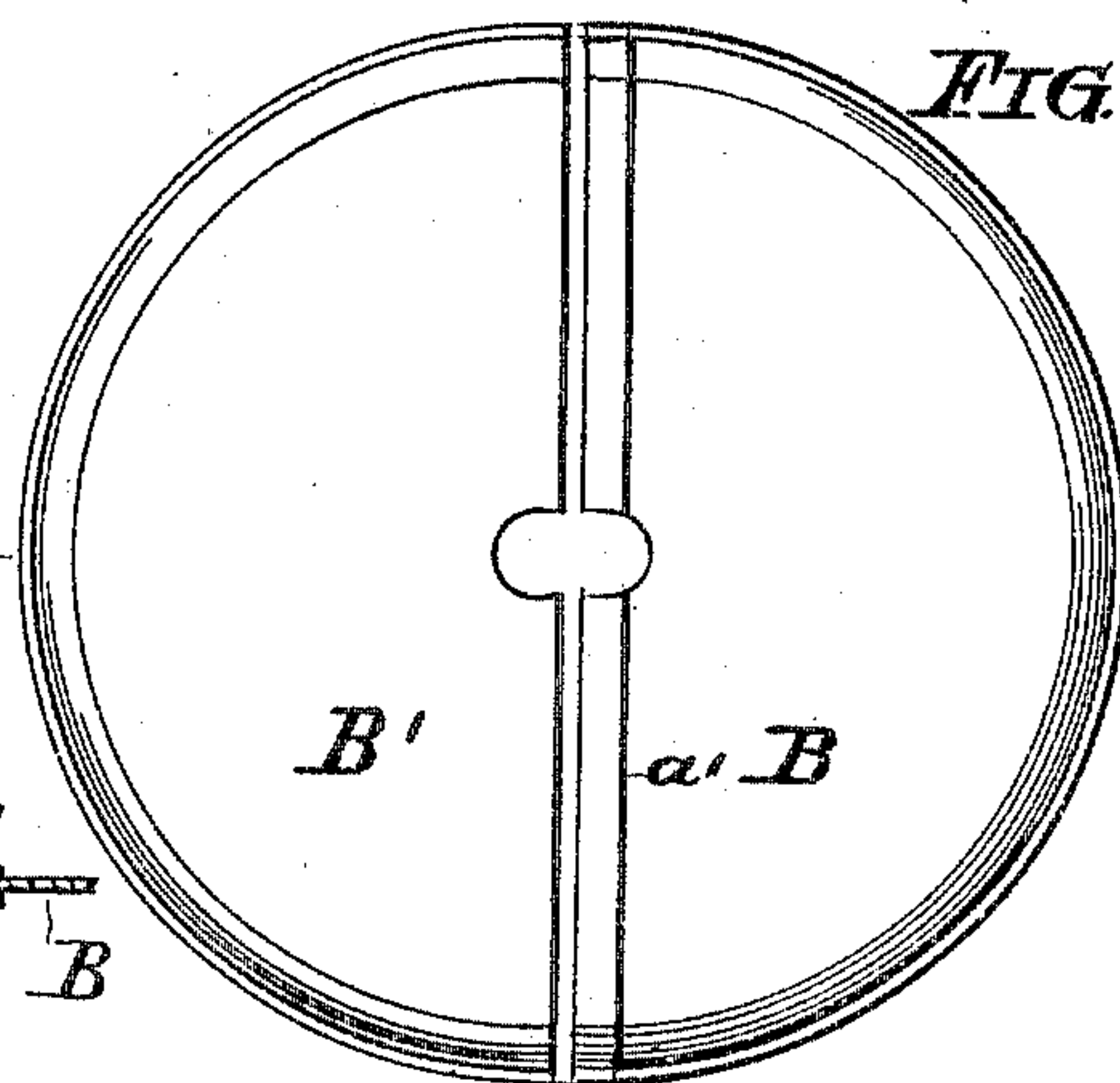


FIG. 6.

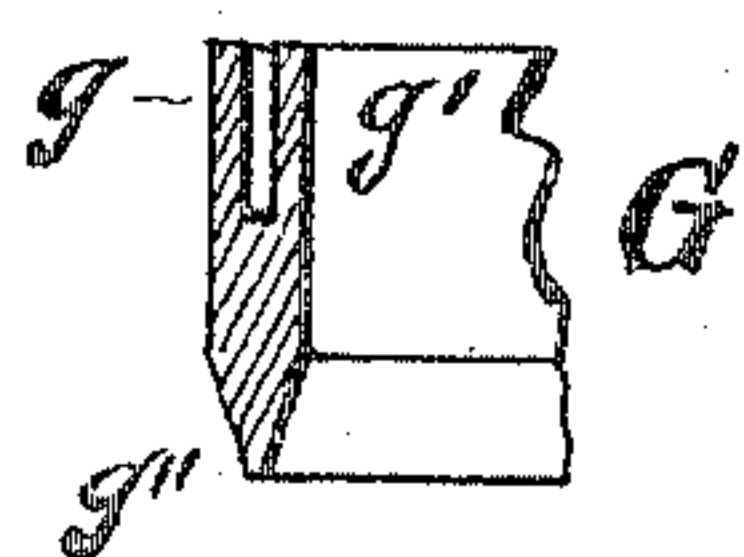
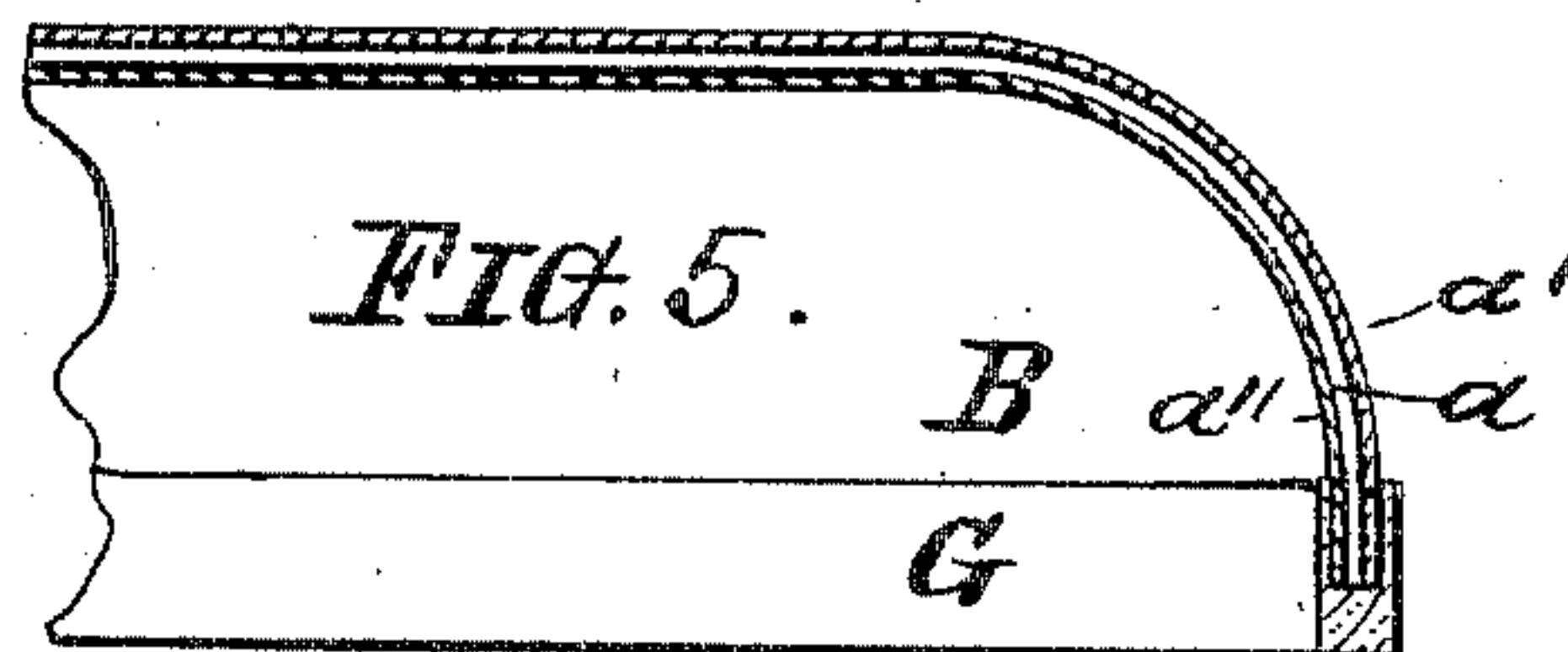
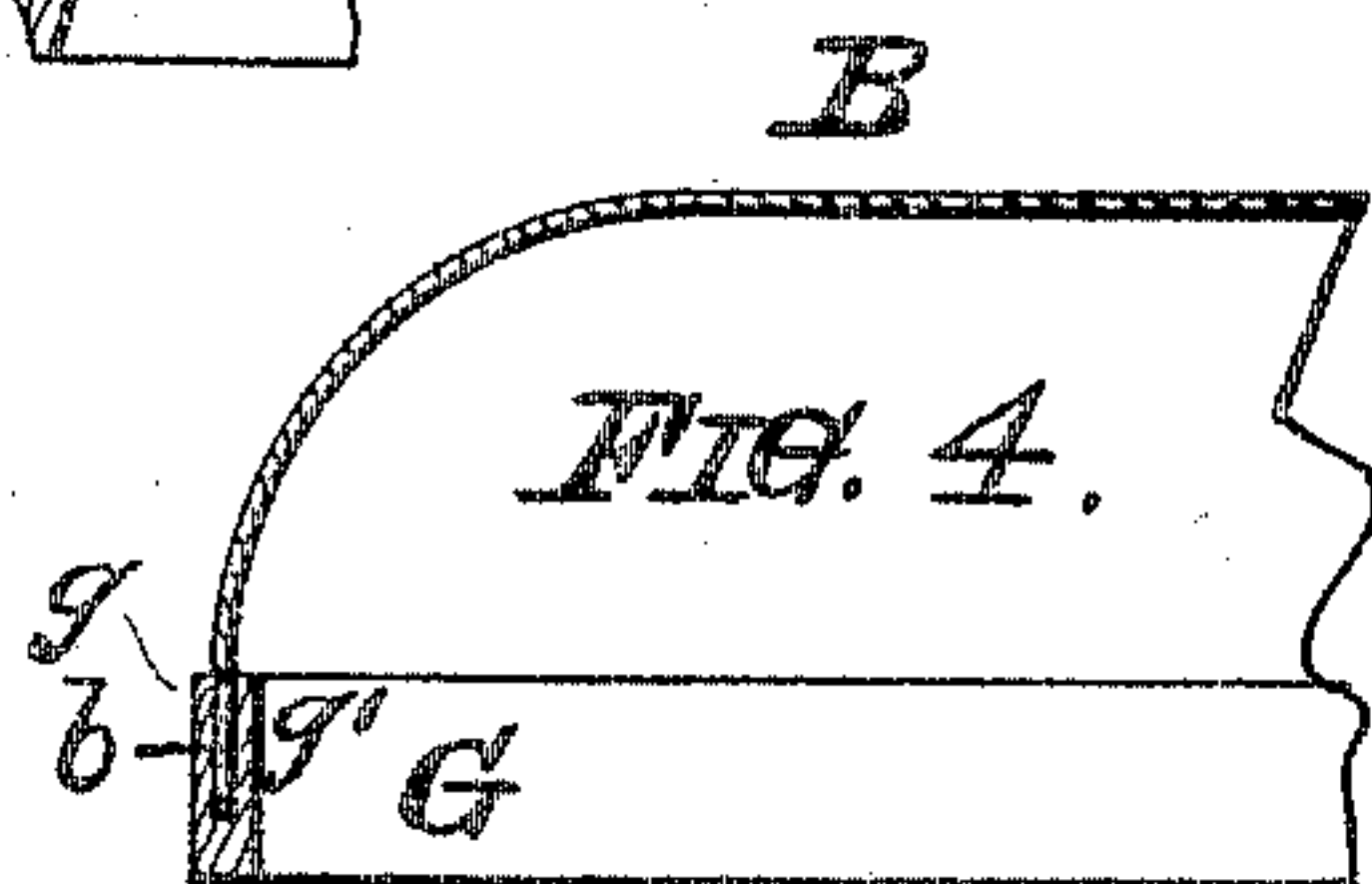
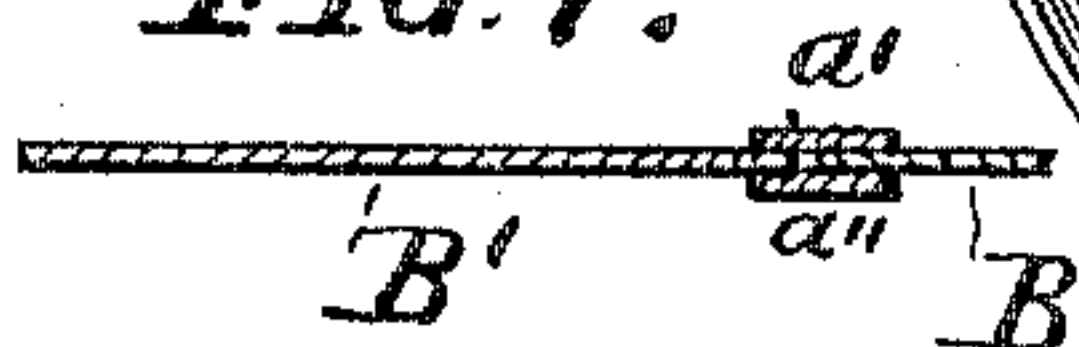


FIG. 7.



Witnesses:

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UNITED STATES PATENT OFFICE.

CHARLES KERSTEN, OF CHICAGO, ILLINOIS.

DUST-PROOF COVER FOR EXTRACTORS.

SPECIFICATION forming part of Letters Patent No. 789,432, dated May 9, 1905.

Application filed December 15, 1904. Serial No. 237,005.

To all whom it may concern:

Be it known that I, CHARLES KERSTEN, a citizen of the United States, and a resident of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Dust-Proof Covers for Extractors; and I do hereby declare that the following description of my said invention, taken in connection with the accompanying drawings, forms a full, clear, and exact specification, which will enable others skilled in the art to which it belongs to make and use the same.

This invention has general reference to improvements in covers for laundry-extractors; and its object is to prevent dust from being drawn into the extractor and to lodge in the articles from which the moisture is being extracted.

It consists, essentially, of a cover for the charging-opening of an extractor and means for suspending the same when desired, said cover being provided with an elastic shoe at its rim, so as to accommodate itself to any unevenness in the upper surface of the extractor-casing, and to close the charging-opening, whereby a current of air cannot pass through the same when the extractor is in operation.

It consists, therefore, in the novel and peculiar combination of parts and details of construction, as hereinafter first fully set forth and described and then pointed out in the claims.

In the drawings already referred to, which serve to illustrate this invention more fully, Figure 1 is an elevation of an extractor such as is usually employed in a laundry establishment. Fig. 2 is an elevation of the cover detached. Fig. 3 is a plan of the same. Fig. 4 is a sectional elevation of a fragment of the cover, illustrating the manner of applying the elastic shoe. Fig. 5 is a similar view showing the method of construction of a two-part cover. Fig. 6 is a similar view of the shoe detached. Fig. 7 is an illustration of the joint employed in the two-part cover.

Like parts are designated by corresponding letters of reference in all the figures.

It is a well-known fact that in all laundry establishments in which extractors are used for removing the water from the garments, linen, &c., dust in the room is an element of con-

stant annoyance, for the reason that the rapidly-revolving basket in the extractor shell or casing acts as a suction-fan and draws dust floating in the air into the extractor, thereby causing the linen, &c., to become soiled and frequently requires a charge of linen to be re-washed. To overcome this serious objection, I provide the extractor-casing A with a cover B, loosely placed upon the upper surface of the casing A and provided with a ring or other suitable means C, by which and a suitable rope D and pulleys E it may be suspended from a ceiling, a counterweight F being provided to balance the cover and keep it suspended when not in use. This cover is preferably cone-shaped or dished, and it has on its rim *b* an elastic, preferably rubber, shoe G, which bears upon the upper surface of the shell A and being soft adapts itself to any undulation or irregularity in the upper surface of the said casing A. The shoe G is an annular ring having a U-shaped cross-section, the two parallel members *g g'* of which embrace the rim *b* without any fastening to retain it in position. The lower part *g''* of this shoe is preferably thicker than the members *g g'* to afford sufficient resilience, and it may be brought to a narrow edge, as shown in Fig. 6, to reduce its weight, and thereby its cost, and at the same time adapt it to more readily assume the contour of the upper surface of the extractor-casing.

In all cases where the basket of an extractor is driven from below (such a machine being shown in Fig. 1) a one-piece cover, as heretofore described, is desirable; but in overhead-driven extractors, where the driving-shaft for the basket protrudes the upper end of the casing A, a two-part cover will be required. In this case I construct the cover of two similar (semicircular) parts B B', as shown in Fig. 3, adapted to engage one another by forming along the edge of one of the two halves a groove *a* and pushing the other half into this groove, said groove being produced by two strips of metal *a' a''*, fastened along the edge of the part B' and overlapping the same, as shown in Fig. 7. In this manner the two halves may be separately placed upon the upper surface of the casing A and then

pushed together, thereby producing a complete cover having an opening *c* for the passage of the driving-shaft heretofore referred to.

5 In the drawings I have shown the cover as being dome-shaped. This shape, however, is non-essential, and a cone may be substituted therefor without departing from my invention. This cover may be made from sheet-
10 iron, brass, copper, or any other metal, and it may be produced in the process of stamping, spinning, or other approved manner.

It will now be observed that by closing the upper charging-opening in the casing A with
15 this improved cover a current of air cannot pass through the extractor, and therefore dust cannot be carried into the same, thus preventing the charge in the basket from being soiled, especially so when the basket is
20 but partially filled, as it often happens.

A cover as described can be manufactured at a very low cost and will add but little to the expense of manufacturing extractors.

Having thus fully set forth my invention, I
25 claim as new and desire to secure to me by Letters Patent of the United States—

1. A cover for an extractor, consisting, essentially, of a dished body; a rim on said body, and a shoe on said rim, said shoe hav-

ing a U-shaped cross-section the parallel mem- 30
bers of which engage the lower edge of said rim, and having its lower edge V-shaped, as stated.

2. A dust-proof cover for an extractor, consisting, essentially, of two similar, separable, 35
halves, one of said halves being provided with a groove as described adapted to engage the opposite half, whereby a complete separable cover is produced; each of said halves having
40 on its rim a shoe consisting of an elastic preferably rubber binding of substantially U shape in cross-section, the lower edge of which is V-shaped, as specified.

3. A cover for a laundry-extractor, consisting of two dish-shaped halves; rims on each 45
half; a groove as described on one of said halves adapted to engage the opposite half; a shoe on the two rim portions consisting of a U-shaped resilient body the parallel members of which embrace the rim at the lower 50
edge.

In testimony that I claim the foregoing as my invention I have hereunto set my hand in the presence of two subscribing witnesses.

CHARLES KERSTEN.

Witnesses:

MICHAEL J. STARK,
AL. STARK.