

# C. E. Brownell. Card Clothing.

N<sup>o</sup> 34,734.

Patented Mar 25, 1862.

Fig. 1.

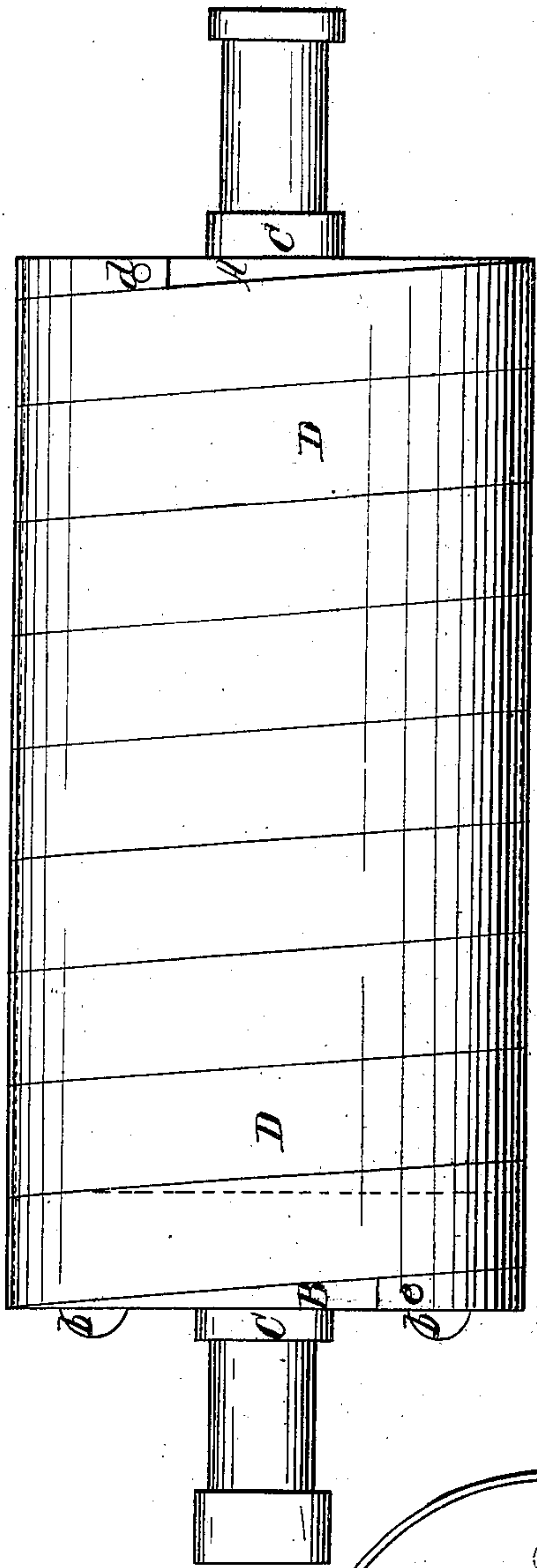


Fig. 3.

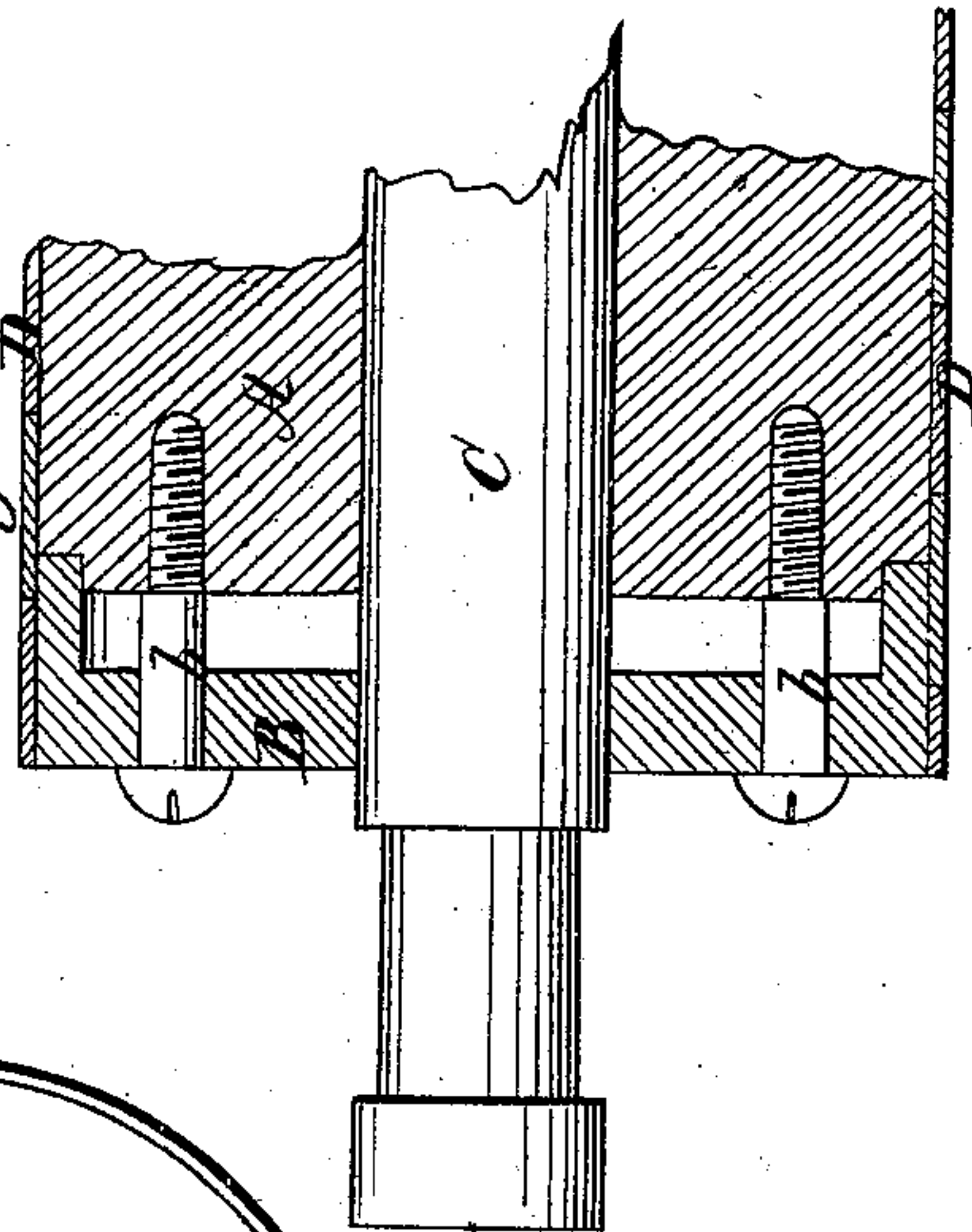
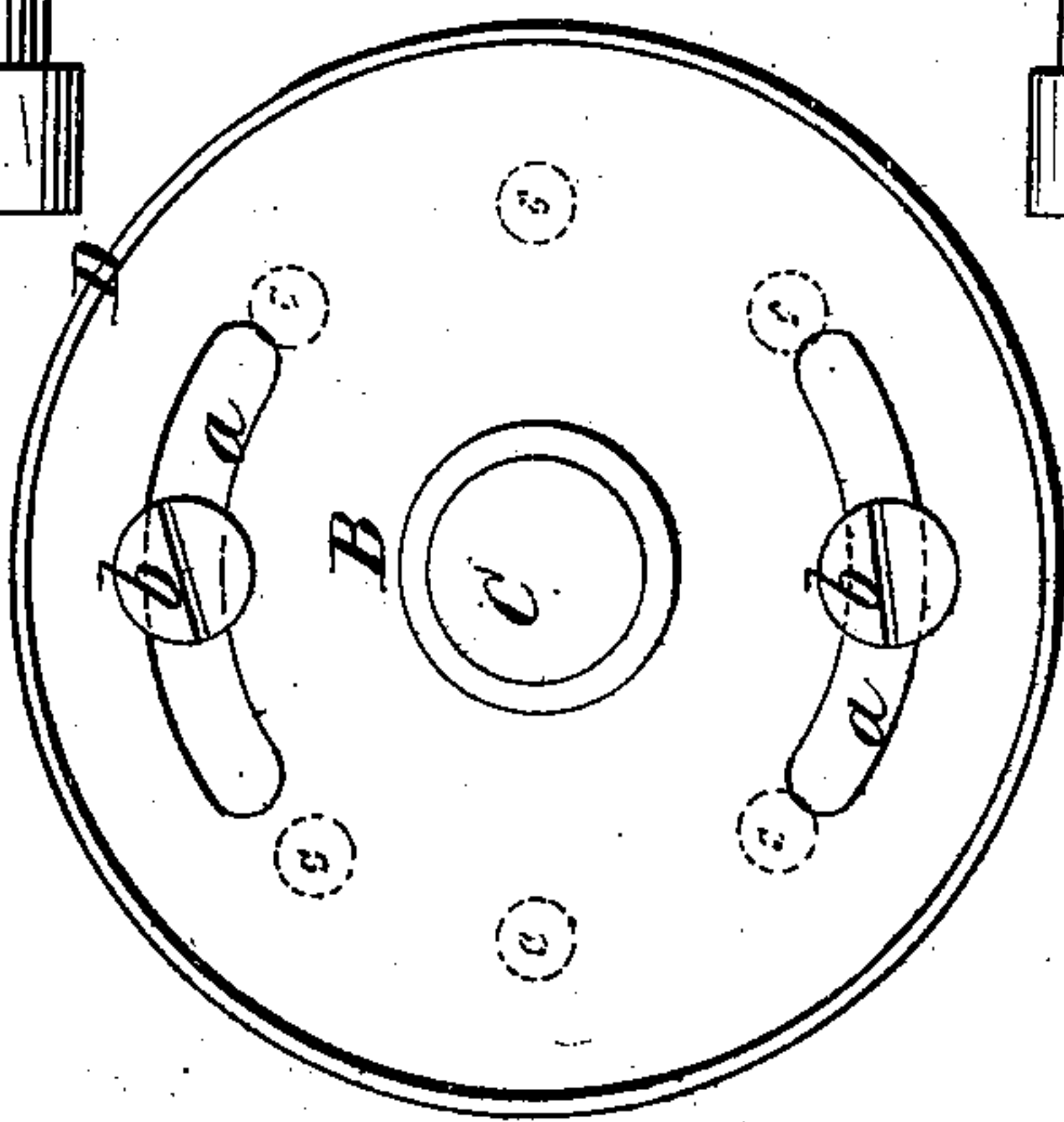


Fig. 2.



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# UNITED STATES PATENT OFFICE.

C. E. BROWNELL, OF EAST HADDAM, CONNECTICUT.

## IMPROVEMENT IN CYLINDERS FOR MACHINE-CARDS.

Specification forming part of Letters Patent No. 31,734, dated March 25, 1862.

*To all whom it may concern:*

Be it known that I, C. E. BROWNELL, of East Haddam, in the county of Middlesex and State of Connecticut, have invented a new and useful Improvement in Card-Cylinders; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a longitudinal outside view of a card-cylinder with my improvement. Fig. 2 is an end view of the same. Fig. 3 is a central sectional view of a portion of the same.

Similar letters of reference indicate corresponding parts in the several figures.

It is well known by all who have had experience in carding cotton and other fibrous materials that there is some difficulty in keeping the fillet on the doffer and other cylinders of the carding-machines tight. In grinding the card the slack is all driven to one end, when it becomes necessary to unwind a portion of the fillet and rewind it. This requires the aid of at least three men, and has to be repeated several times a year.

The object of my invention is to obviate this necessity for unwinding and rewinding the fillet; and to this end it consists in making the cylinder with a movable head or ring at one end, or otherwise making a portion of the same movable on its axis, that it may be turned relatively to the other portion for the purpose of tightening up the fillet.

To enable those skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

A is the cylinder, and B a movable head

fitted to turn on one end of the cylinder and upon the shaft C thereof. This head is of the same circumference as the cylinder itself, and slotted, as shown at *aa* in Fig. 2, for the admission of screws *bb*, which screw into tapped holes *cc* in the cylinder, for the purpose of screwing it thereto. The slots are curved concentric with the circumference B, to permit it to be turned to tighten up the fillet D, one end of which is secured by a screw *d* or similar device to the cylinder near the end which is farthest from the head B, and the other end by a similar screw *e*, or its equivalent, to the head B. Several screw-holes *cc* are provided in the cylinder to enable the position of the screws *bb* to be changed, and thus permit the head B to be turned without removing the screws. To tighten up the fillet, it is only necessary to unscrew the screws *bb* and turn the head B, or, if the screws do not permit it to turn sufficiently without removal, they should be removed and inserted in the next holes *cc*, and when the fillet is drawn quite tight the screws are screwed up tightly to secure it.

What I claim as my invention, and desire to secure by Letters Patent, is—

Providing the cylinder with a movable head B, or otherwise making a portion of the same, to which one end of the card-fillet is attached, movable about its axis relatively to the other portion thereof, to which the other end of the fillet is attached, substantially as and for the purpose herein specified.

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