

P. J. McGOVERAN.
Carding-Machines.

No. 153,446.

Patented July 28, 1874.

Fig. 1.

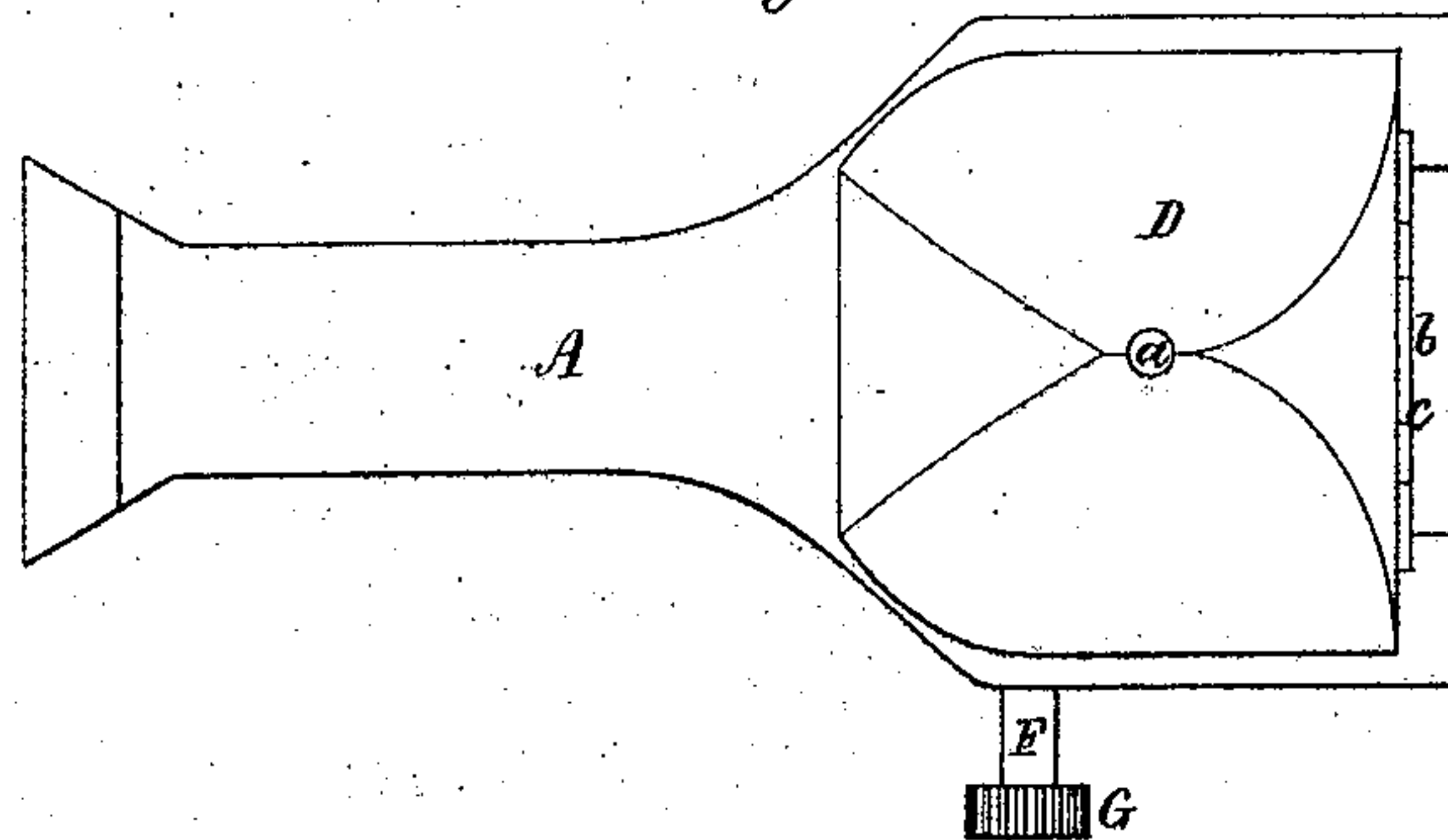


Fig. 2.

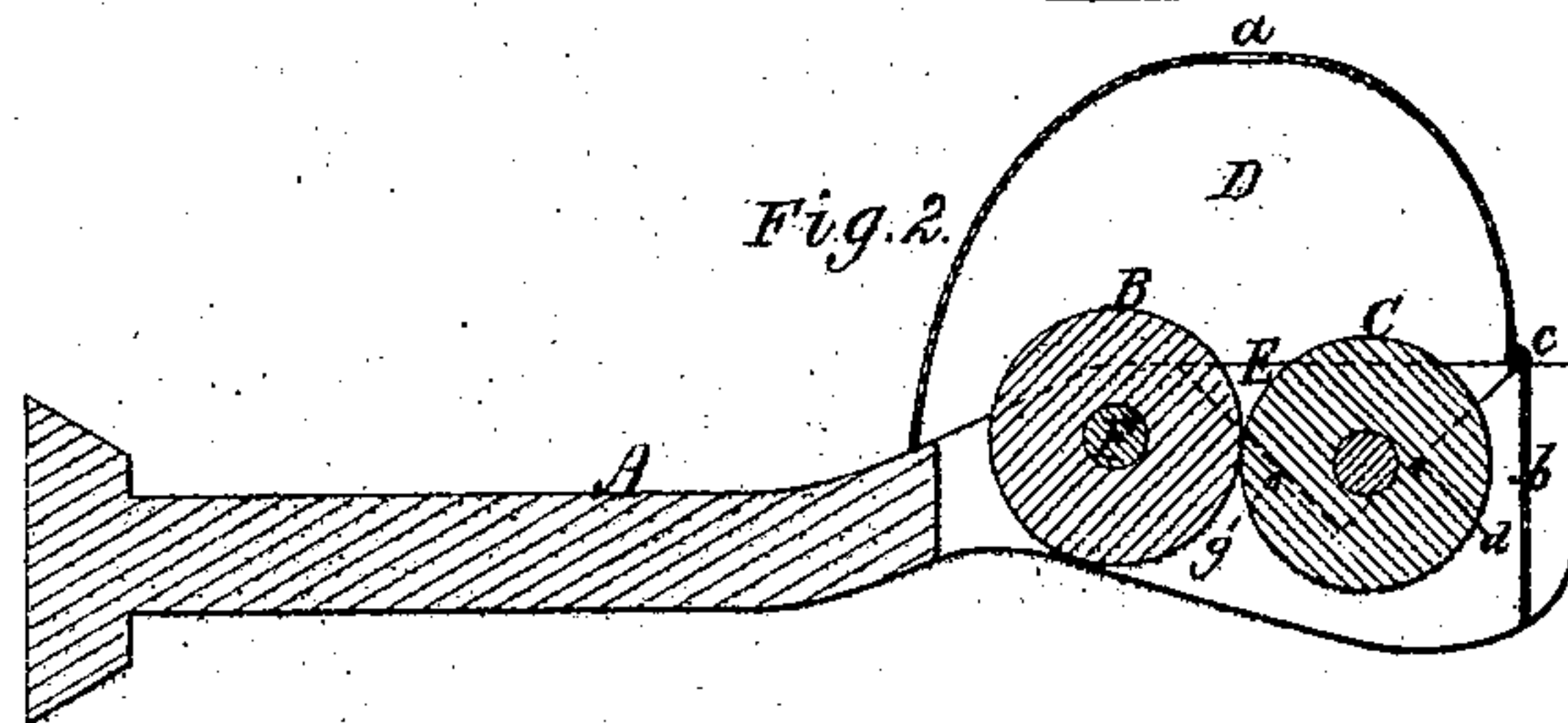


Fig. 3.

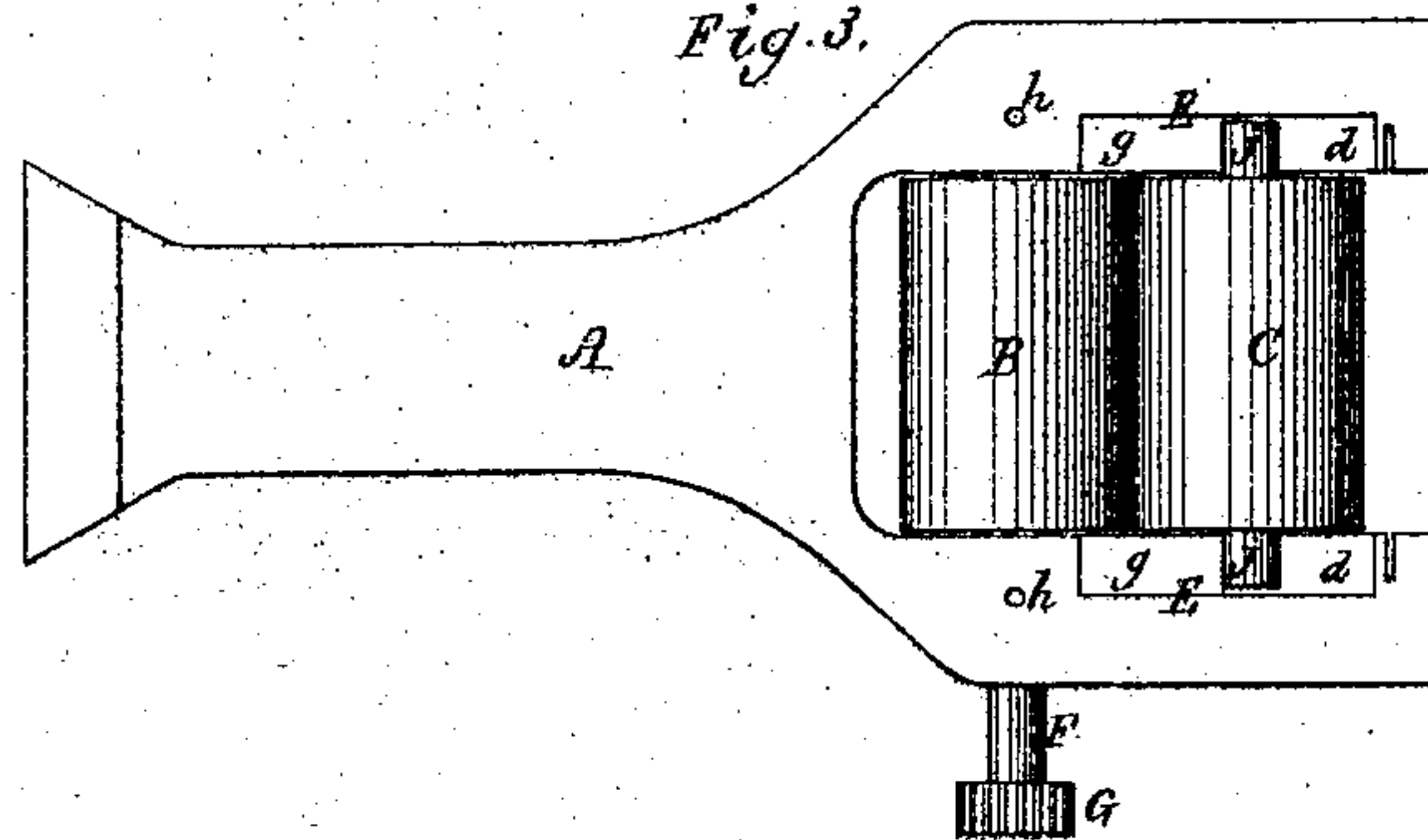
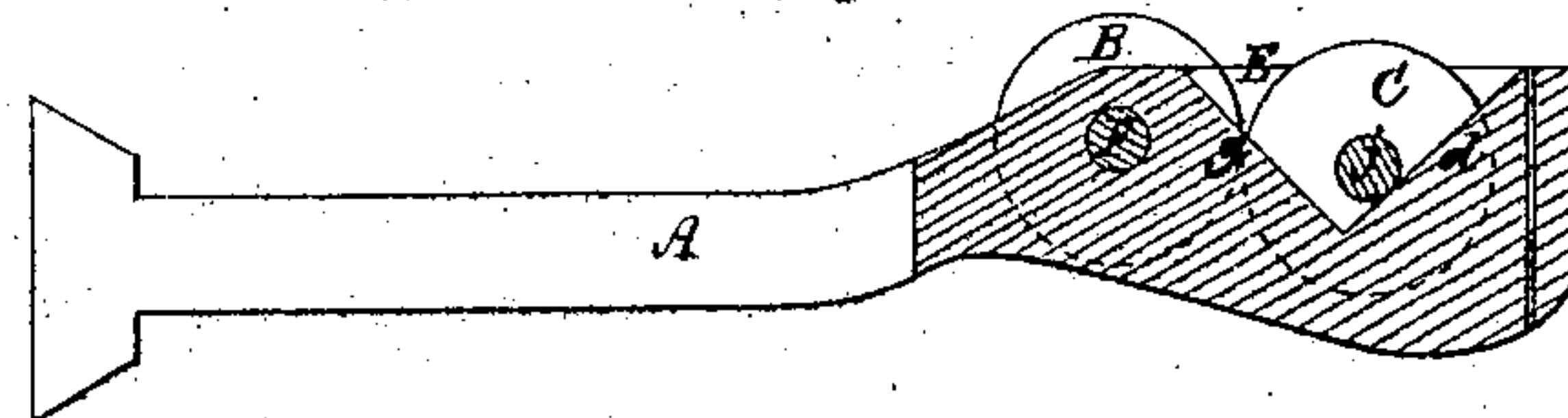


Fig. 4.



Witnesses.
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UNITED STATES PATENT OFFICE.

PATRICK J. McGOVERAN, OF LAWRENCE, MASSACHUSETTS.

IMPROVEMENT IN CARDING-MACHINES.

Specification forming part of Letters Patent No. **153,446**, dated July 28, 1874; application filed June 10, 1874.

To all whom it may concern:

Be it known that I, PATRICK J. McGOVERAN, of Lawrence, of the county of Essex and State of Massachusetts, have made a new and useful Invention having reference to Carding-Engines; and do hereby declare the same to be fully described in the following specification and represented in the accompanying drawings, of which—

Figure 1 is a top view, and Fig. 2 a longitudinal section, of the delivery-rollers and bracket of a carding-engine with my invention applied thereto. Fig. 3 is a top view of the bracket and the rollers. Fig. 4 is a section of the bracket, taken through one of the journals of the front roller.

My invention consists, first, in the combination of a hollow and perforated dome with the bracket and its delivery-rolls, such dome being to extend over the two rollers, and to be hinged to the bracket or a plate introduced into or applied thereto; second, in the front delivery-roll having its journals resting on inclined planes to keep it pressed toward the rear roll.

In such drawings, A denotes an arm or bracket, which is to extend from the middle of the front end of the frame of a carding-engine, and to support and carry the two delivery-rolls B and C, between which the fleece is to be received from the doffer.

Generally there is arranged over and near the bite of such rolls a trumpet or guide to receive the fleece or sheet of carded cotton and guide it between the rolls.

The dome D perforated at its crown, as shown at *a*, and extended over the two rolls, and hinged at the front edge of its base to the

bracket or a plate, *b*, inserted therein, the hinge being shown at *c*, not only serves the purpose of the trumpet, (the fleece passing down through the hole *a*,) but to cover the rolls, so as to prevent dust and extraneous matters discharged from the carding-engine from collecting upon the rollers, or getting into the oiling-holes *h h* of the bearings of the shaft of the rear roll. Furthermore, should the sliver become caught by and wound upon the back roll, the front roll will be forced upward on its inclined planes *d d*, and as the sliver may accumulate on the back roll, it will crowd or force upward the dome, and thus warn the attendant that the sliver is not being perfectly delivered.

The bracket beneath the dome has two angular recesses, *E E*, arranged in it, as shown, to receive the journals *j j* of the front roll. Each recess has its bottom inclined in opposite directions, as shown at *d g*, the two front inclined planes *d d* serving to keep the roller up to the sliver as well as to allow such roller to rise during accumulation of the sliver upon the back roller. *F* is the shaft of the rear roll or roller, and *G* the operative gear thereof.

I claim—

1. The combination of the perforated or sliver-guiding dome D with the carding-engine bracket A and its delivery-rolls B C, all being arranged substantially as set forth.

2. The delivery-rolls B C, combined with the bracket A, having the inclined planes *d d*, for supporting the journals of the front roll C, all as explained.

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Witnesses:

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