

(No Model.)

H. L. MOULTON
CARDING CYLINDER.

No. 273,878.

Patented Mar. 13, 1883.

FIG. 1

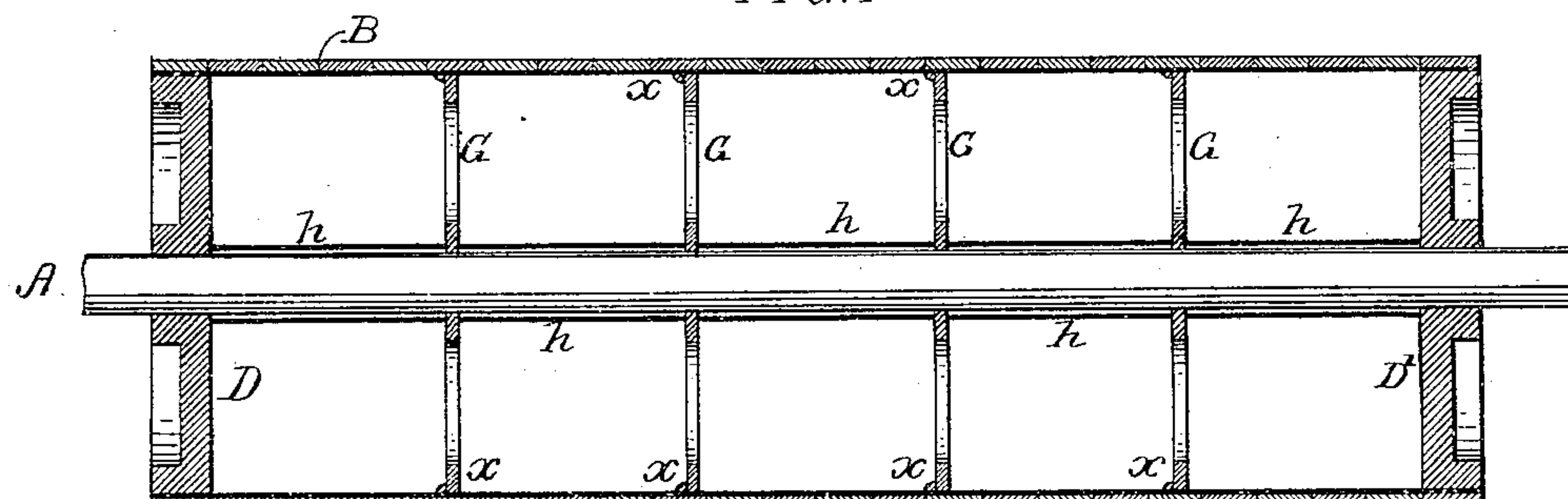


FIG. 2

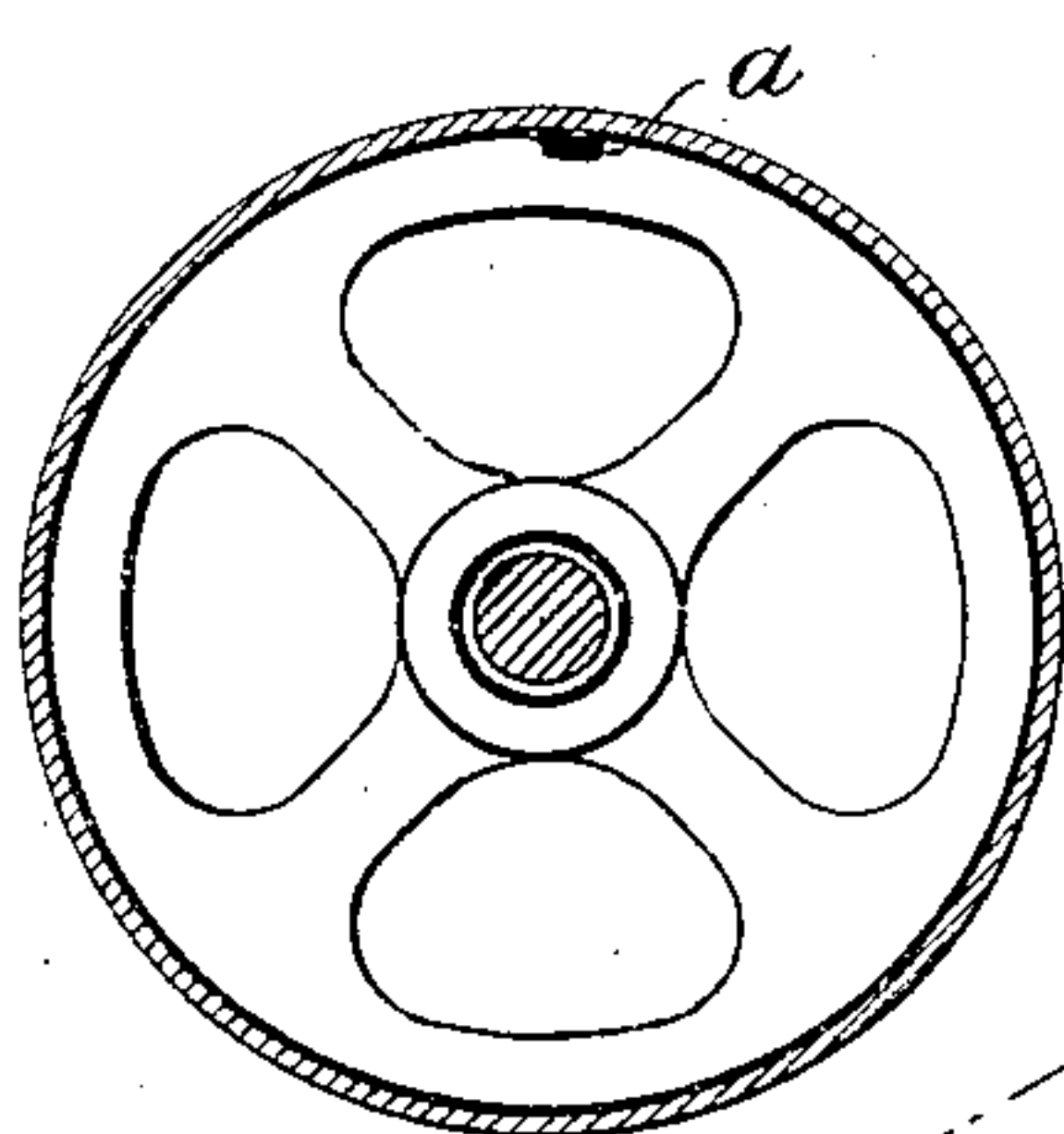


FIG. 3

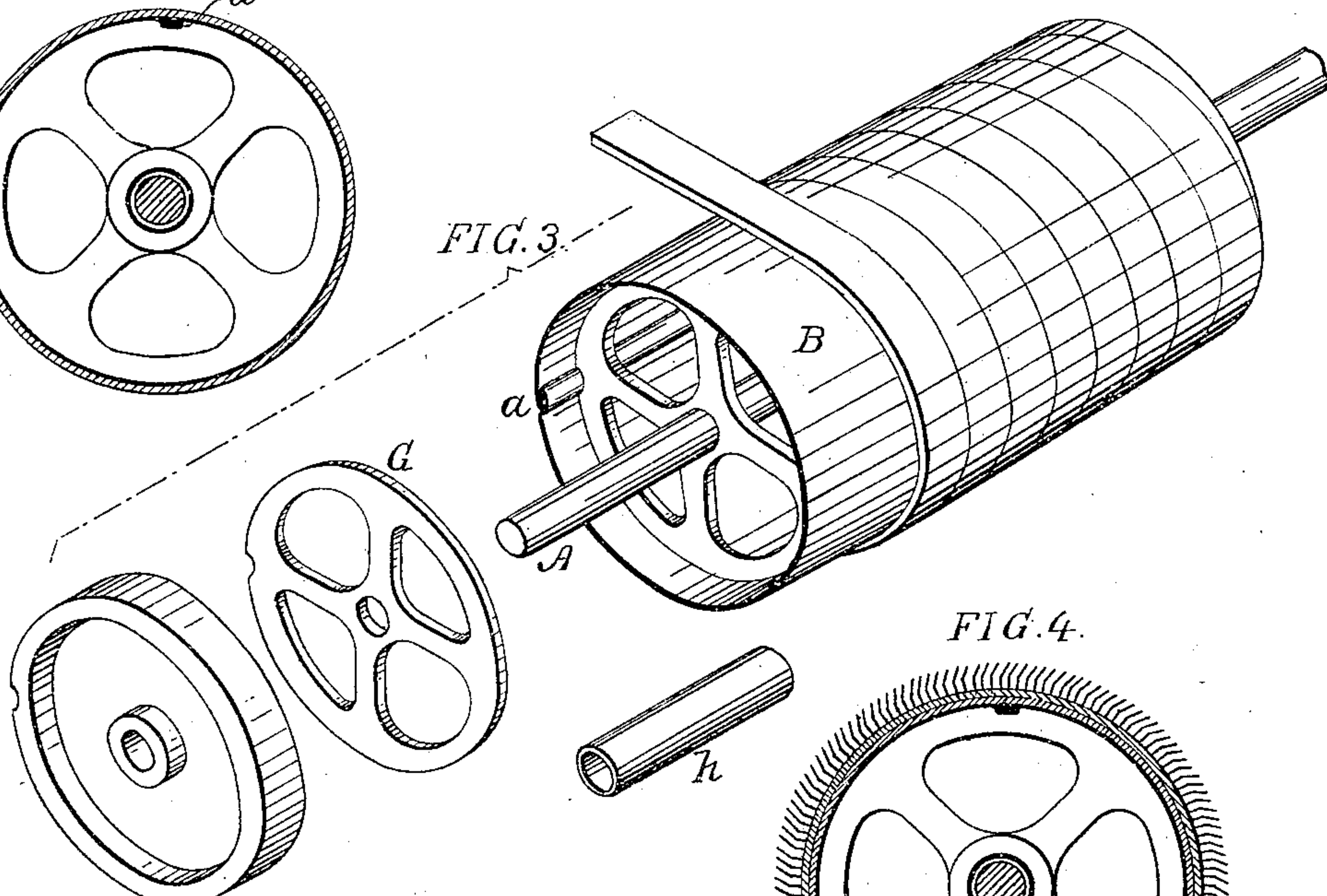


FIG. 4

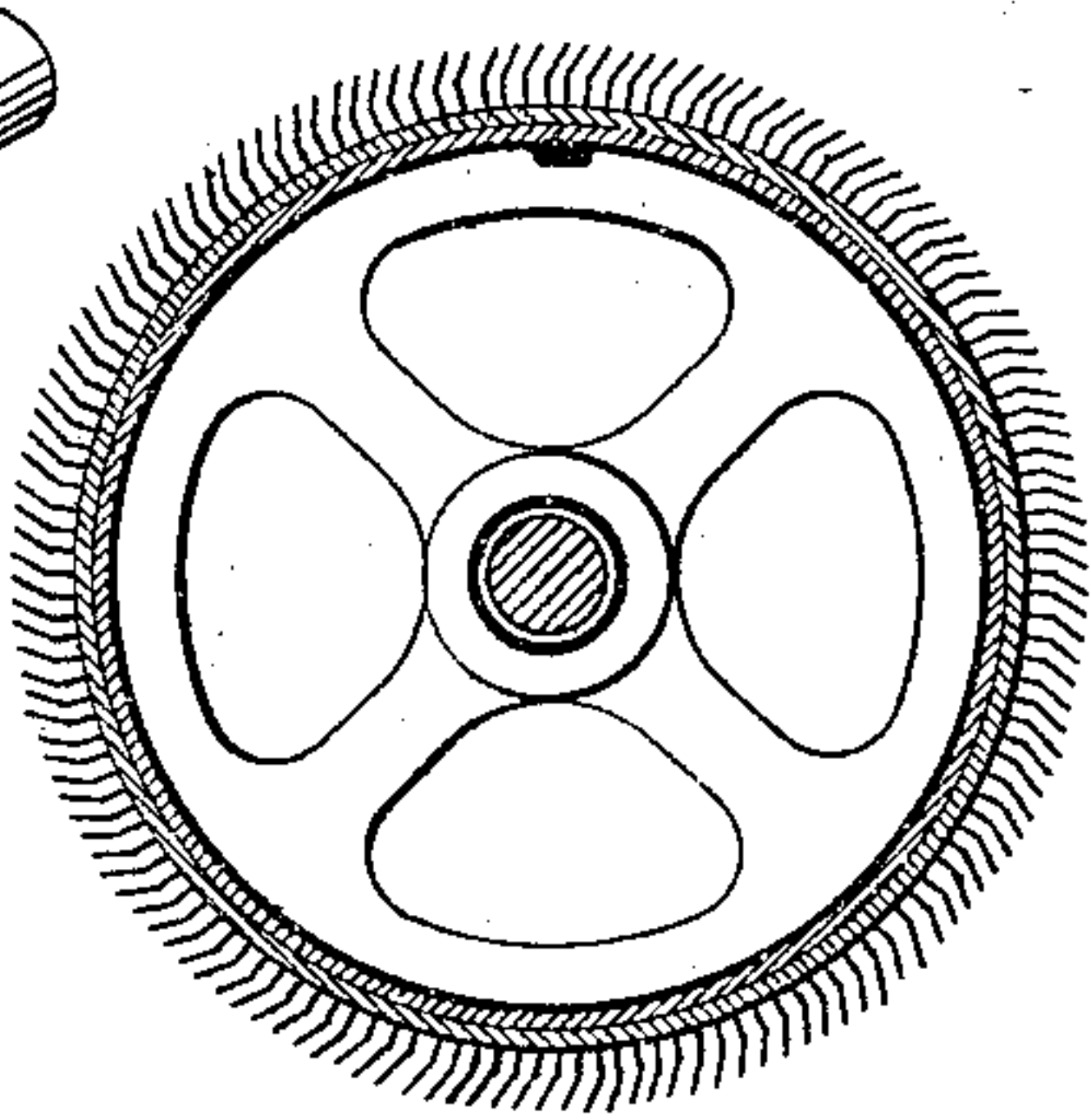
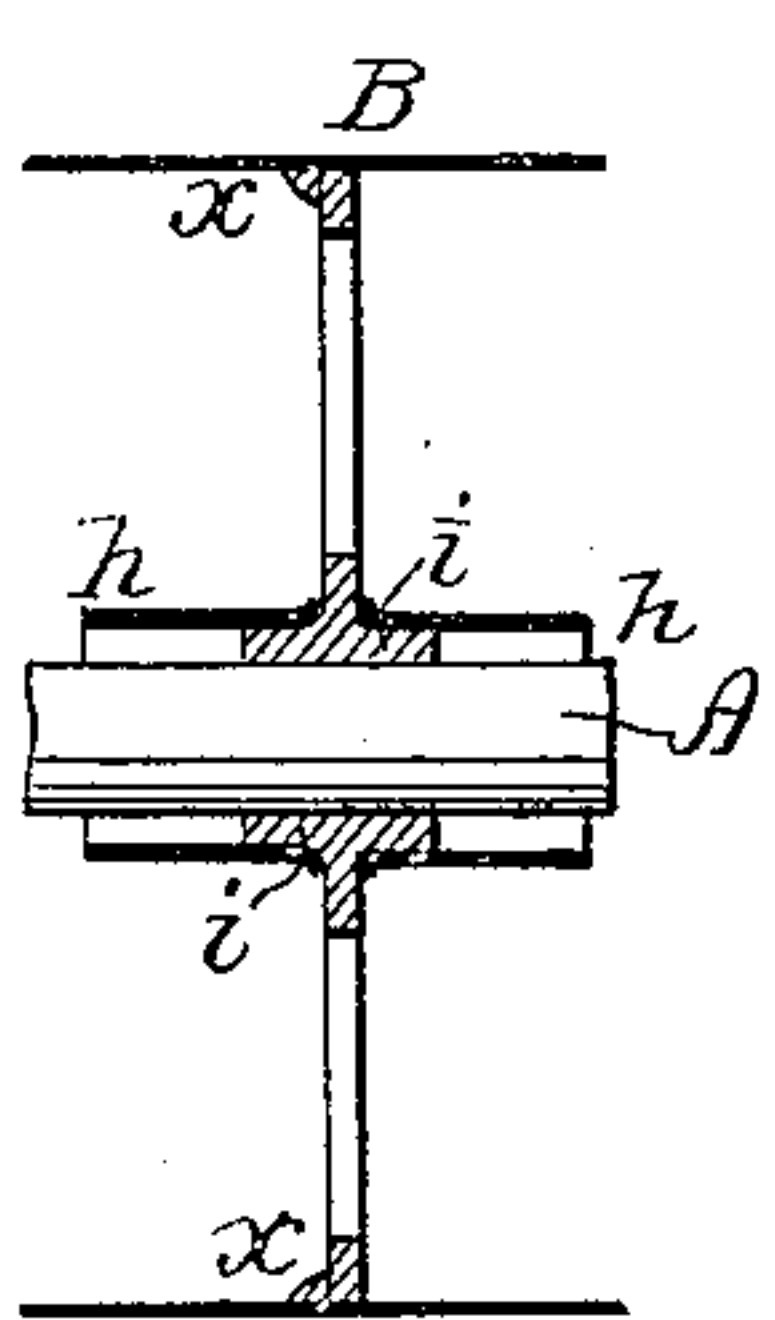


FIG. 5



WITNESSES:

David Williams
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UNITED STATES PATENT OFFICE.

HAMILTON L. MOULTON, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO
THE JAMES SMITH WOOLEN MACHINERY COMPANY, OF SAME PLACE.

CARDING-CYLINDER.

SPECIFICATION forming part of Letters Patent No. 273,878, dated March 13, 1883.

Application filed November 9, 1882. (No model.)

To all whom it may concern:

Be it known that I, HAMILTON L. MOULTON, a citizen of the United States, and a resident of Philadelphia, Pennsylvania, have invented an Improvement in Carding-Cylinders, of which the following is a specification.

My invention consists of a card cylinder or roller constructed in the peculiar manner fully described hereinafter, with the view of maintaining it in a cylindrically true and steady condition.

In the accompanying drawings, Figure 1 is a longitudinal section of my improved card cylinder or roller; Fig. 2, a transverse section of the same; Fig. 3, a perspective view of the roller, showing some of the parts detached; Fig. 4, a transverse section of the roller with the card-clothing thereon, and Fig. 5 a view illustrating a modification of one feature of my invention.

A is the shaft or spindle of the cylinder or roller; B, the usual cylinder, of tinned plate, the longitudinal joint *a* of this cylinder projecting inwardly, so that the exterior may be free from all protuberances.

D and D' are the two heads of the roller, one head being fitted into and secured to one end of the cylinder and the other head to the other end of the cylinder.

The above-described parts, together with the card-clothing wound spirally round the cylinder and connected thereto, are common to other card-rollers.

Within the cylinder are a series of disks, G—four in the present instance—which are made

to fit snugly to the interior of the said cylinder and to the shaft, the edges of the disks being preferably soldered to the interior of the cylinder at *x*. The disks, having peripheries concentric with the shaft, tend to maintain the cylinder in true condition and prevent all tendency to sag; but in order that the disks may perform these duties properly it is essential that they should be retained in their proper positions on the shaft, and for this purpose I interpose between each head and the nearest disk a tube, *h*, of thin metal, and a similar tube between each pair of disks. Openings are made through the disks for the purpose of reducing the weight of the same, and each disk, as well as each head, is notched to receive the longitudinal joint *a* on the cylinder.

A hub, *i*, may be made on each head, as well as on both sides of each disk, for receiving the tubes *h*, as shown in Fig. 5.

I claim as my invention—

A card cylinder or roller in which a shaft, A, and its two heads, D D', are combined with the cylinder B, disks G, fitted to the cylinder and to the shaft, and tubes *h* for retaining the said disks in place on the shaft, all substantially as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HAMILTON L. MOULTON.

Witnesses:

HARRY DRURY,

HENRY HOWSON, Jr.