

(No Model.)

G. HILL.

DRAWING ROLLER FOR SPINNING AND DRAWING FRAMES.

No. 270,432.

Patented Jan. 9, 1883.

Fig. 1.

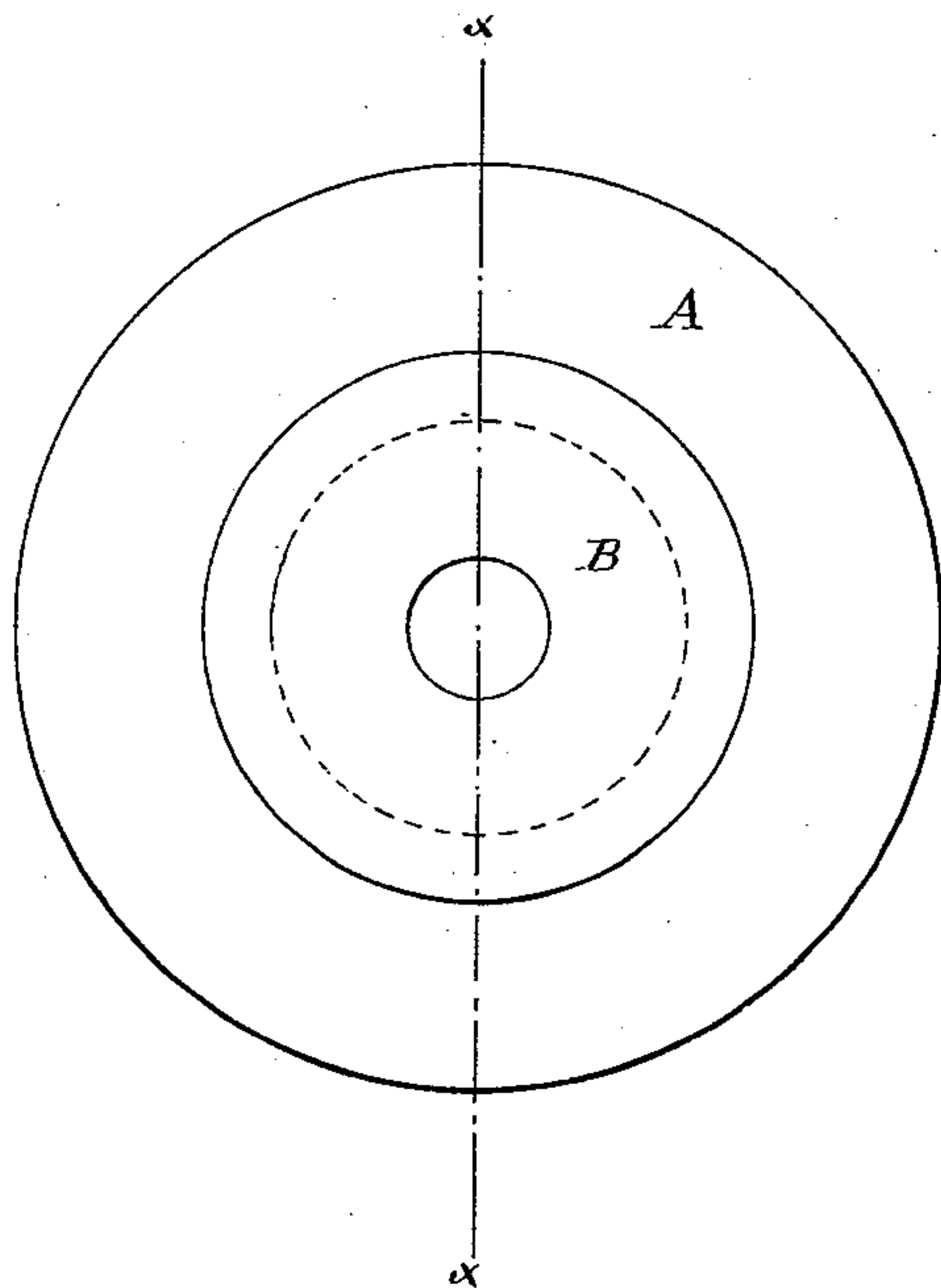


Fig. 2.

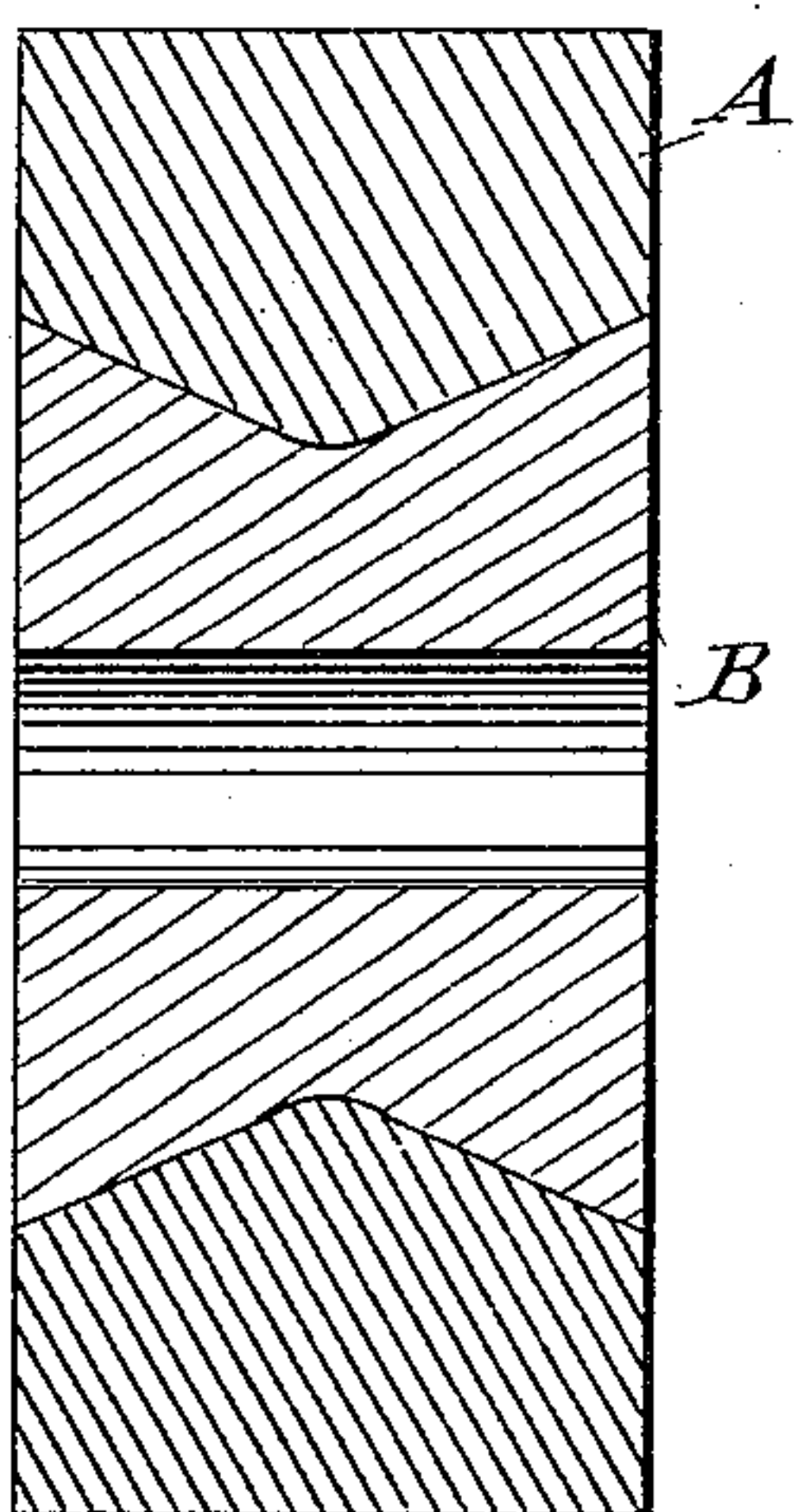
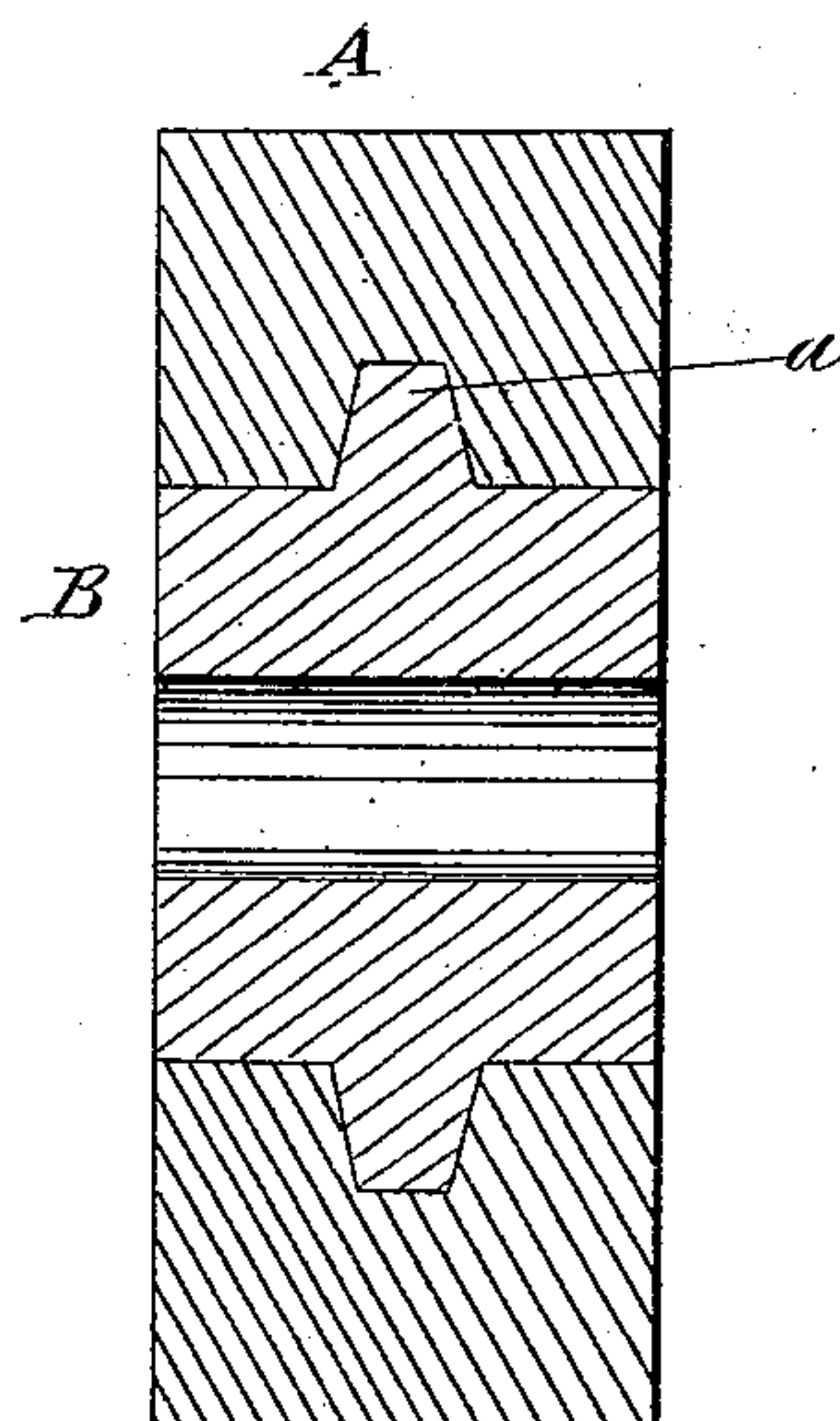


Fig. 3.



WITNESSES:

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UNITED STATES PATENT OFFICE.

GEORGE HILL, OF NEW YORK, N. Y.

DRAWING-ROLLER FOR SPINNING AND DRAWING FRAMES.

SPECIFICATION forming part of Letters Patent No. 270,432, dated January 9, 1883.

Application filed June 8, 1882. (No model.)

To all whom it may concern:

Be it known that I, GEORGE HILL, of the city, county, and State of New York, have invented a new and Improved Drawing-Roller for Spinning and Drawing Frames, of which the following is a full, clear, and exact description.

The invention consists in a roller having a center and a covering thereof, formed of a mass of glue, oil, and leather, as hereinafter described.

Figure 1 is an end elevation of my improved roller for spinning and drawing frames. Fig. 2 is a cross sectional elevation of the same on the line *x x*, Fig. 1. Fig. 3 is a cross-sectional elevation of a modification of the same.

I make the roller of shreds of leather of all kinds. These shreds of leather are mixed with glue and oil in the following proportions: glue, (liquid,) four ounces; oil, four ounces; leather-shreds, one pound. The glue, oil, and the leather are thoroughly mixed, and are then placed in molds and pressed into the desired shape, and the leather mass A is then turned off, finished, and polished. Preferably the leather mass A is molded and pressed around

a center, B, of metal, which has its periphery grooved to receive part of the leather mass to hold it on the center; or the center can be provided with a series of studs, *a*, projecting from the periphery into the leather mass surrounding it. These rollers can be made of different sizes, as may be required.

I am aware that it is not new to mix leather-shavings with gums and mold them into blocks or cylinders or rollers; or to mix leather-shavings with hair and a compound of caseine, gluten, oxide of lead, turpentine, and gutta-percha; or to mix gum and caoutchouc with metallic layers, textile fabrics, or leather and cement; also, to cover a roll on the outside with an outer covering of leather, parchment, or paper; but

What I do not claim as new is—

A roller having a center, B, and a covering thereof, formed of a mass of glue, oil, and leather-shreds, as described.

GEORGE HILL.

Witnesses:

JAMES PETTITT,
JOHN HIGGINS.