

(No Model.)

W. MASON.
SPINNING RING.

No. 245,647.

Patented Aug. 16, 1881.

Fig. 1.

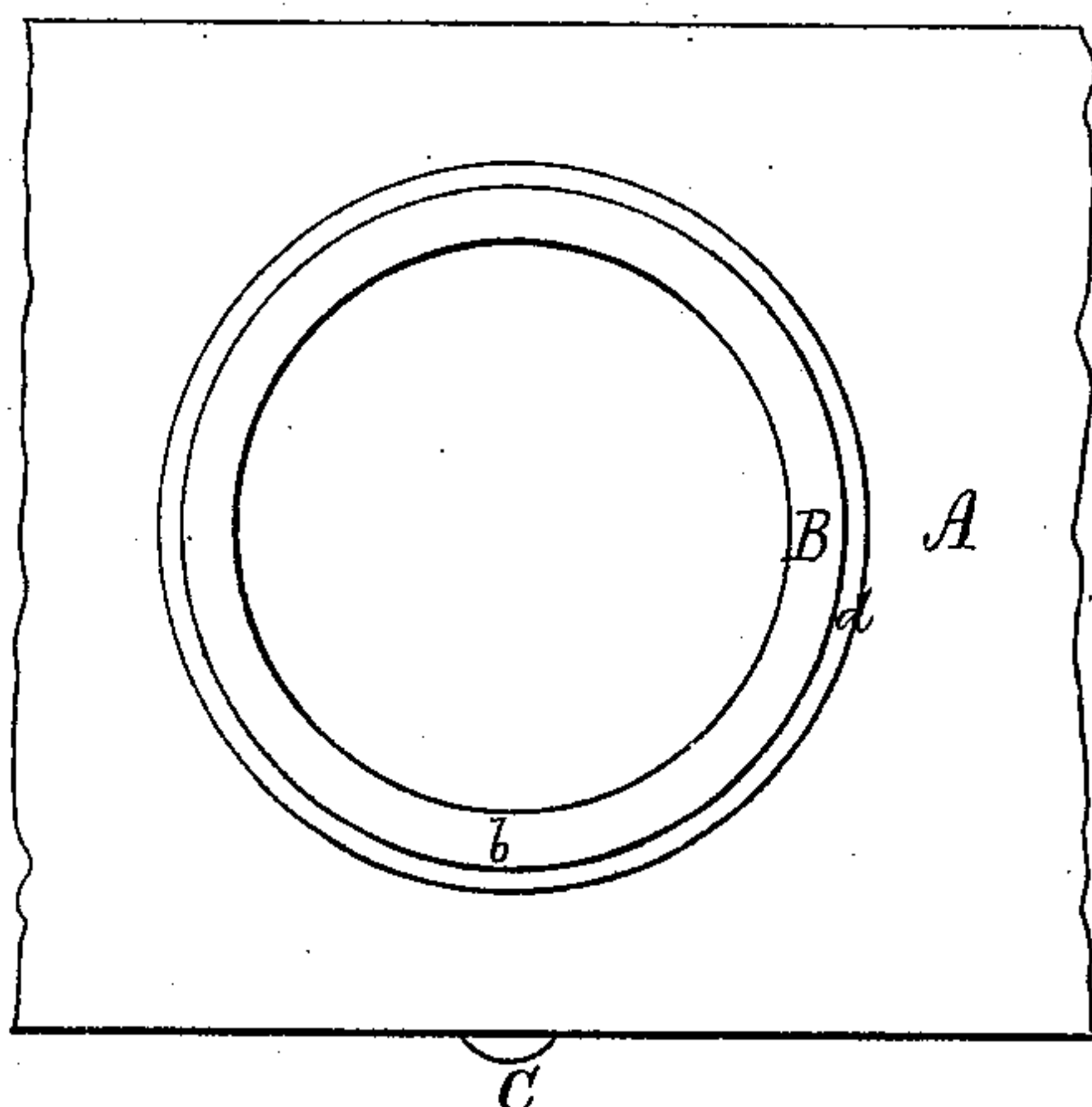


Fig. 6

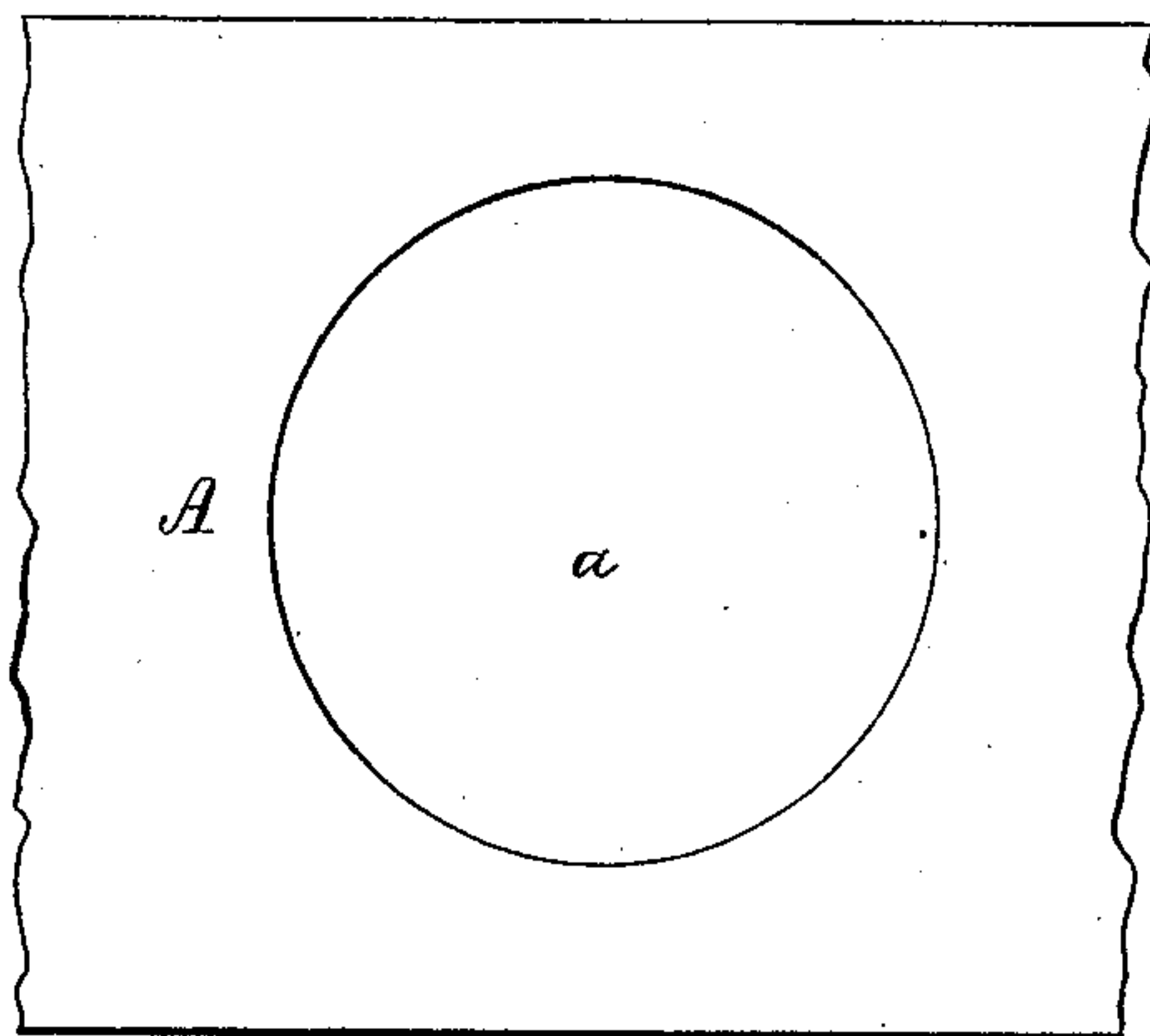


Fig. 2.

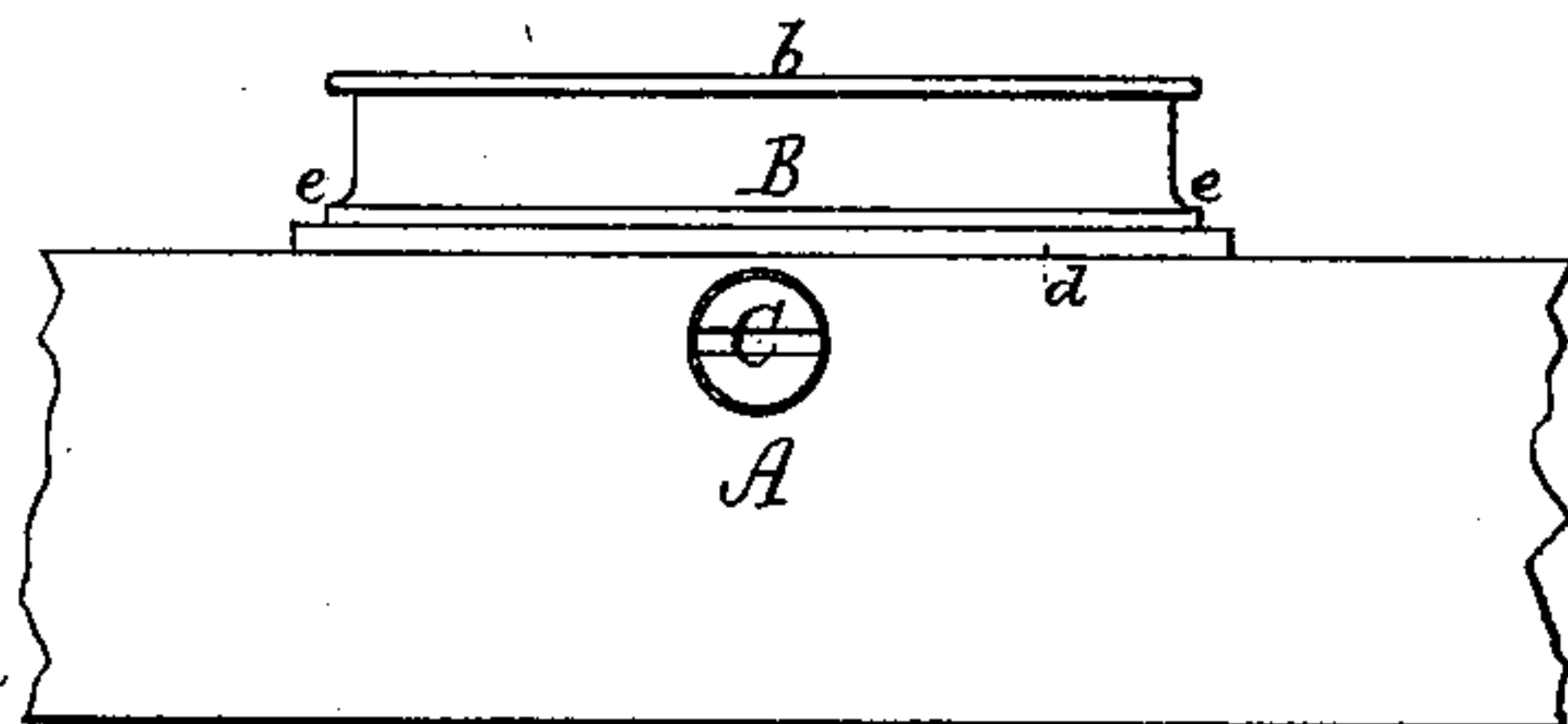


Fig. 3.

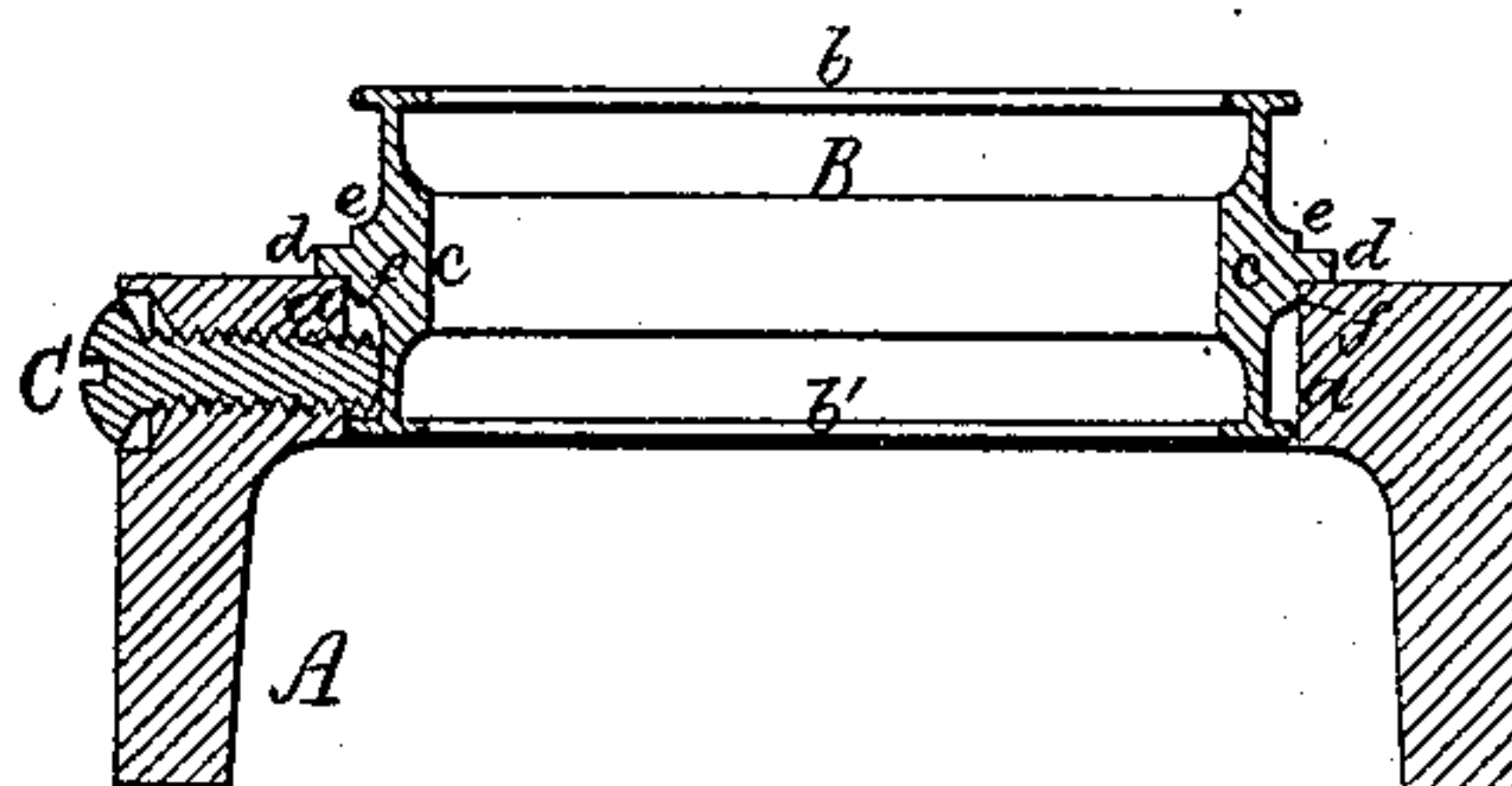


Fig. 4.

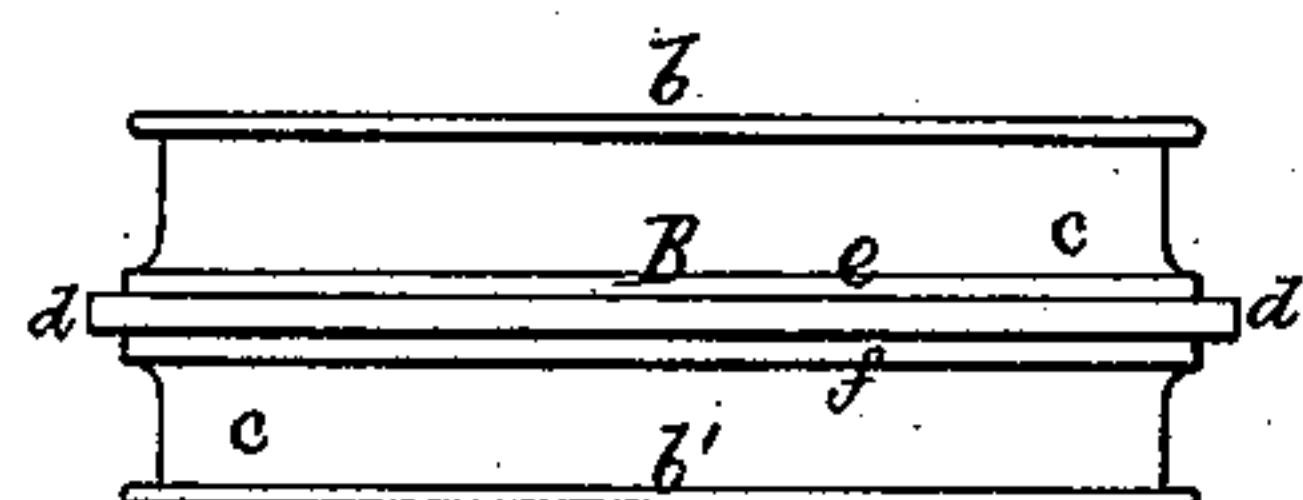
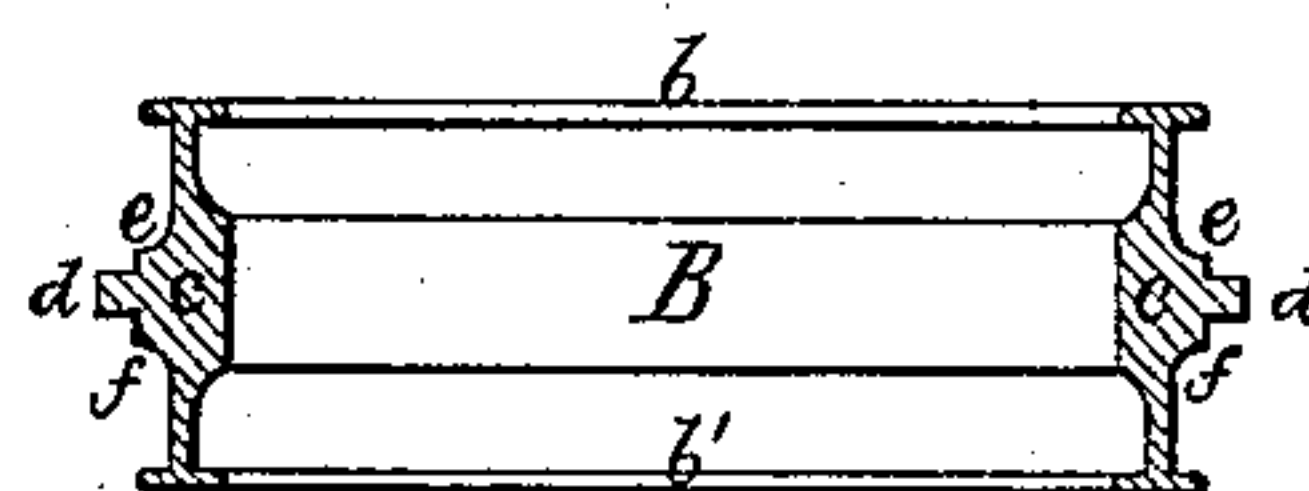


Fig. 5.



Witnesses.

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UNITED STATES PATENT OFFICE.

WILLIAM MASON, OF TAUNTON, MASSACHUSETTS.

SPINNING-RING.

SPECIFICATION forming part of Letters Patent No. 245,647, dated August 16, 1881.

Application filed June 4, 1881. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM MASON, of Taunton, of the county of Bristol and State of Massachusetts, have invented a new and useful Improvement in Spinning-Frame Rings and their Supporting Devices; and I do hereby declare the same to be described in the following specification, and represented in the accompanying drawings, of which—

Figure 1 is a top view, Fig. 2 a front elevation, and Fig. 3 a transverse section, of a spinning-frame ring and the supporting-rail therefor provided with my invention. Fig. 4 is a side elevation, and Fig. 5 a transverse section, of the ring. Fig. 6 is a top view of a portion of the ring-rail, and showing the circular or cylindrical socket thereof for reception of the ring.

My invention specially relates to that class of spinning-frame-traveler supporting-rings of which each ring has two races, connected by a tubular neck extending from one to the other of them, the nature of such invention being defined in the claims hereinafter set forth. Such a "double race-ring," as it is commonly called, has prior to my invention been generally, though not always, supported by an annular holder, separate from it and the ring-rail, and inserted within or fixed upon the latter. The main purpose of my improvement is to do away with or render such holder unnecessary, thereby saving the expense of its construction and use, besides attaining other advantages.

In the drawings, the ring-rail (represented at A) is provided with a circular or cylindrical socket, *a*, arranged in and through it, from its upper surface downward, such socket being for the reception of the double race-ring shown at B. There is screwed into the rail, so as to extend into the socket, a clamp-screw, C, such being as shown. Furthermore, the double race-ring B is constructed not only with two races, *b b'*, connected by an annular neck, *c*, but it has between the races and at an equal distance from each of them, an annular flange, *d*, having a diameter larger than that of the outer periphery of either of the races, and also larger than that of the rail-socket for reception of the ring, such flange, on the ring being placed within the socket, being to rest upon

the rail and support the ring, whichever of the races may be uppermost.

The clamping-screw, on being set up against the neck of the ring, operates to secure the ring in its socket, and it does this, not only by pressing the ring laterally against the socket, but by extending directly over the lower race of the ring, whereby the said race and clamp-screw (particularly in case of the latter accidentally working loose) co-operate in keeping the ring from being drawn upward out of the socket of the rail by the yarn while being spun.

The ring, as represented in the drawings, is also provided with two annular or cylindrical shoulders, *e f*, projecting from its neck on opposite sides of and next to the flange, as shown. Each of such shoulders has a diameter at least equal to that of the external periphery of each race, though I prefer that such shoulder should have a somewhat larger diameter—that is, one equal to or a little less than that of the rail-socket for reception of the ring. The object of each of such shoulders is to prevent the race that may be within the socket from being by the clamp-screw forced against the wall of the socket, so as to be injured thereby, as the shoulder, by bearing against the wall of the socket, will insulate the race therefrom, or from contact therewith.

What I claim as my invention is as follows, viz:

1. The combination of the ring-rail having the circular or cylindrical ring-socket and the clamping-screw thereto, as described, with a spinning-frame ring provided with two races, an intermediate flange, and two shoulders, as described, and inserted in such socket so that the flange shall rest on the rail and one of the shoulders be within the socket, the clamp-screw being to act against the neck of the ring, and to serve with the lower race thereof, in keeping the ring in place in the socket.

2. The double-race spinning-frame ring provided with the circular flange and two shoulders, arranged with the neck and races, substantially and for the purposes as set forth.

WILLIAM MASON,

Witnesses:

WM. H. BENT,
WM. MASON, Jr.