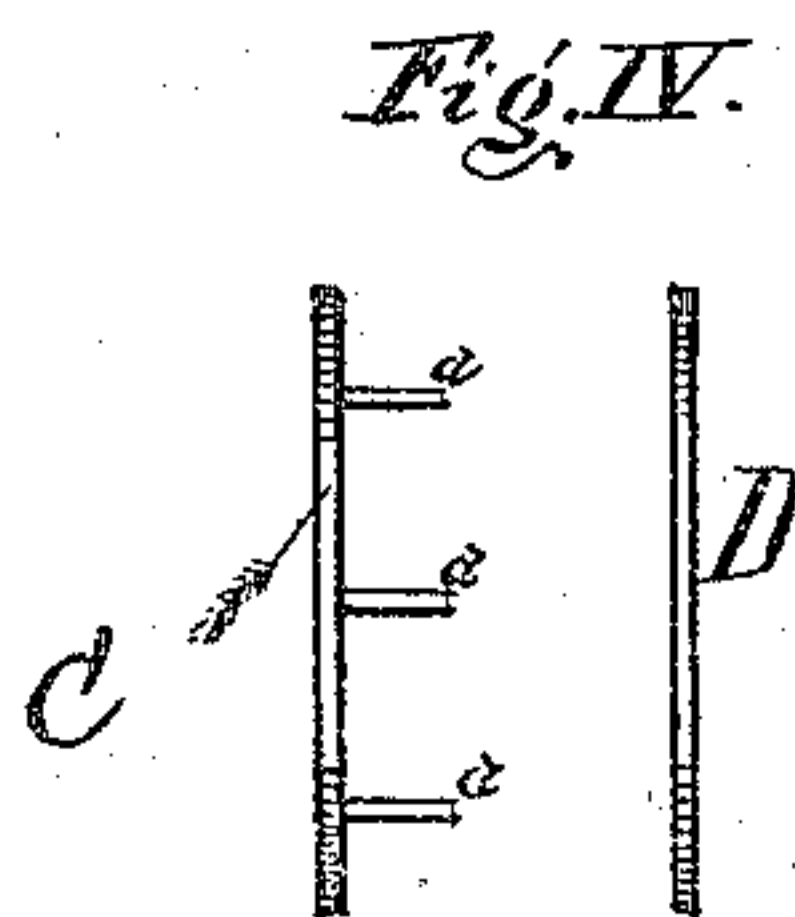
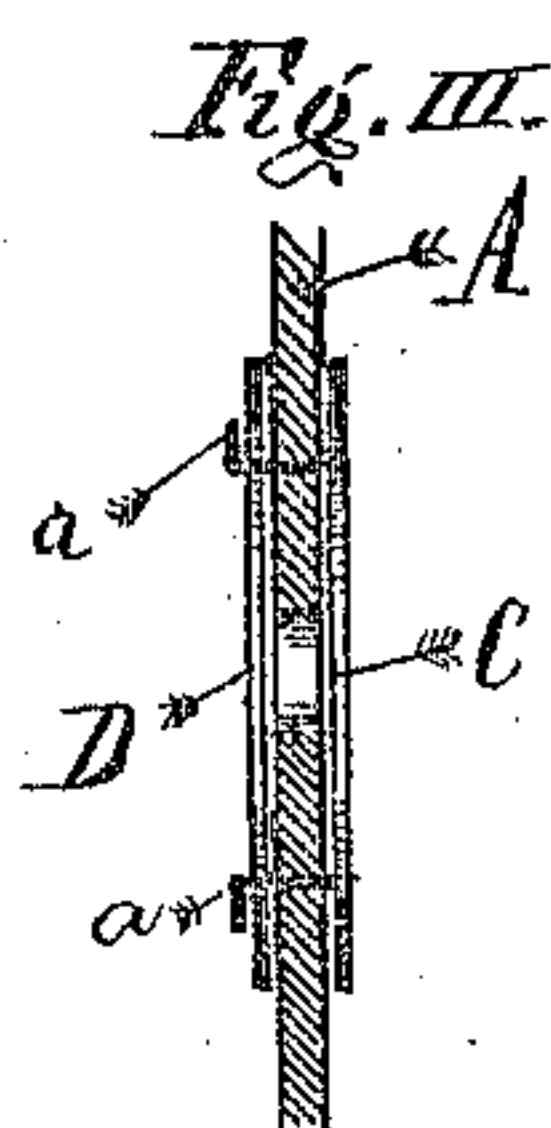
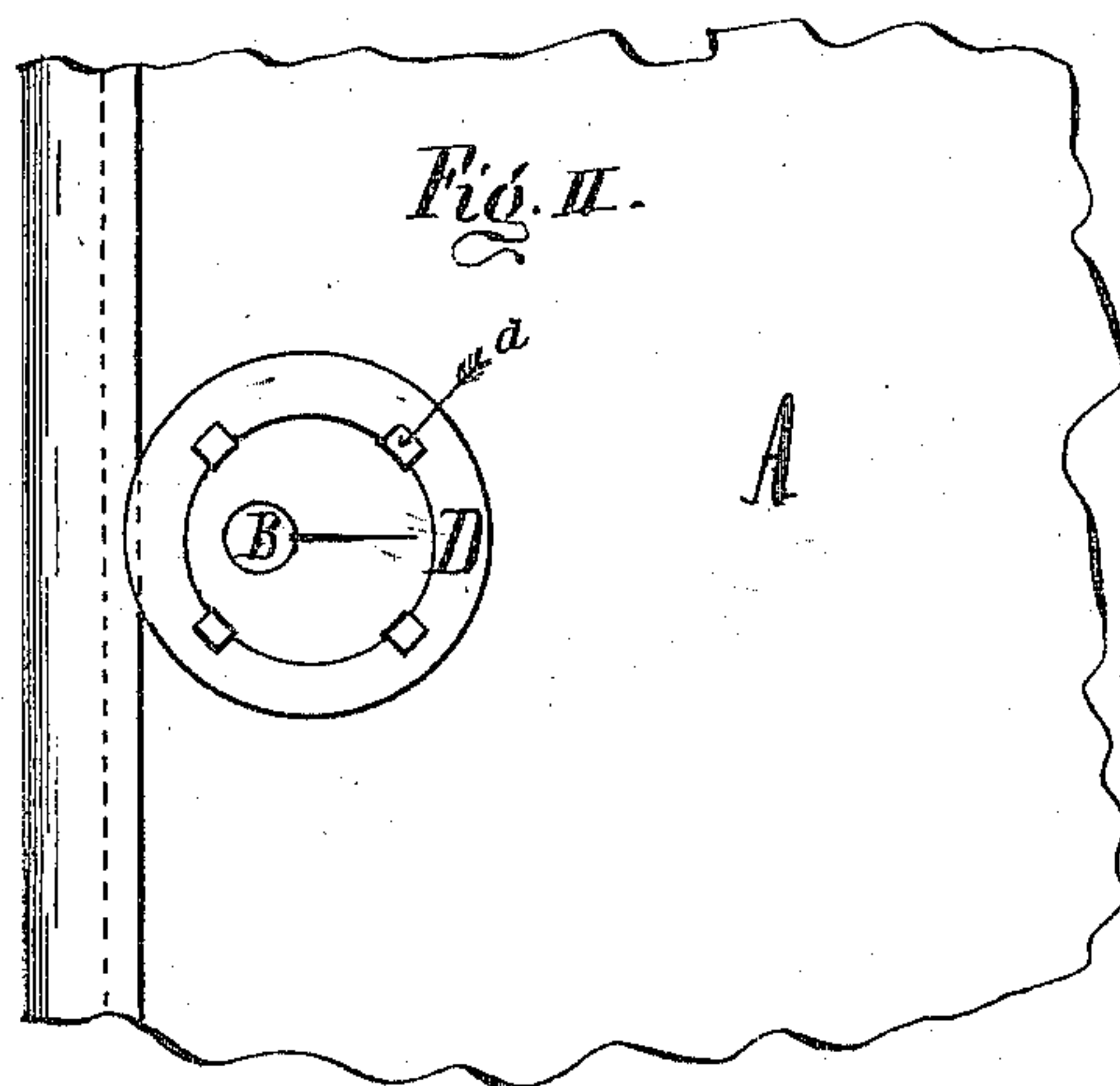
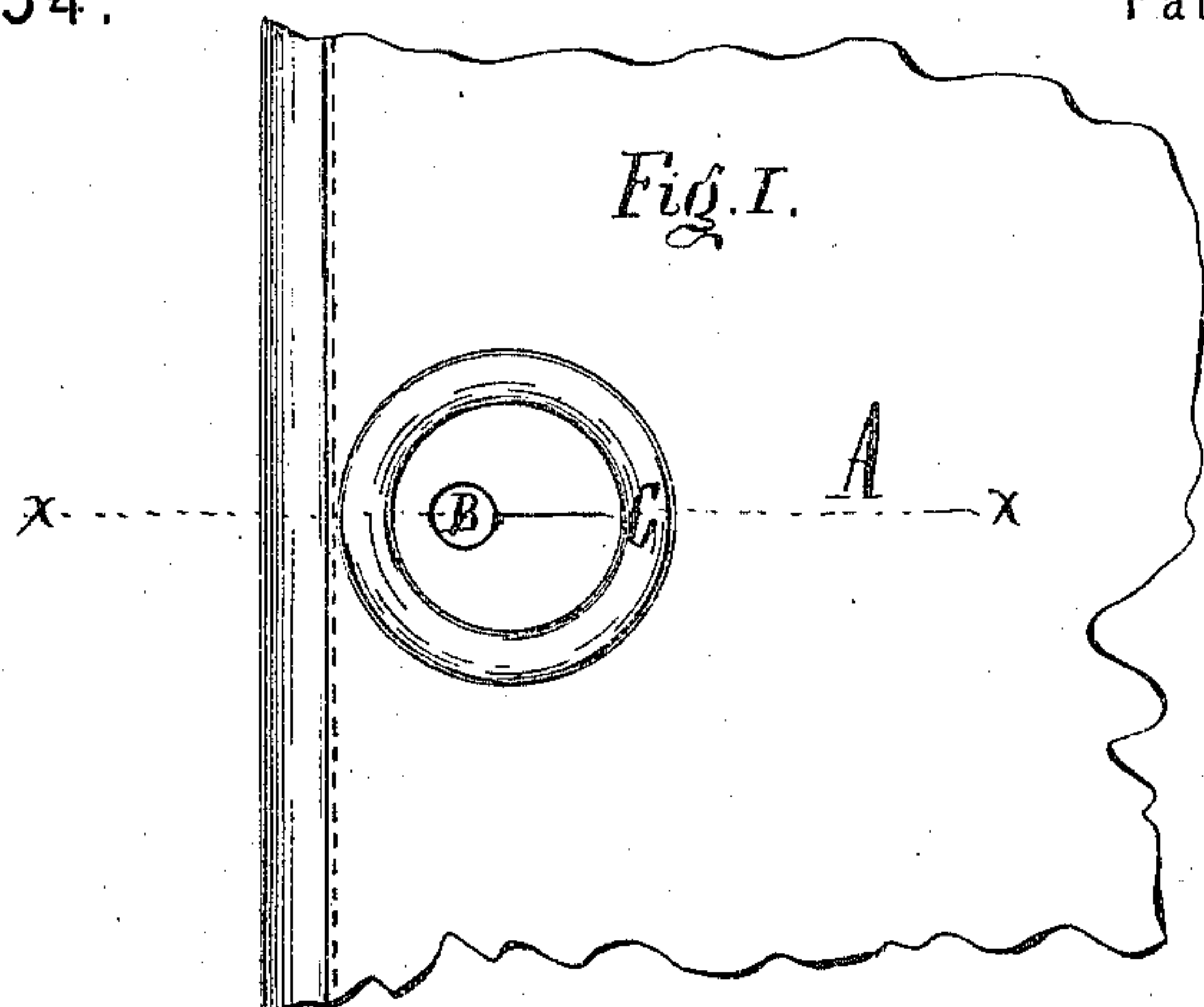


J. WATTERS.
 Mode of Securing Button-Holes.
 No. 133,554.

Patented Dec. 3, 1872.



Witnesses:
 Richard Gerner
 Franklin Darritt

Inventor:
 John Watters
 Per Henry Gerner

UNITED STATES PATENT OFFICE.

JOHN WATERS, OF NEW YORK, N. Y., ASSIGNOR TO CHARLES SCHUSSLER,
OF SAME PLACE.

IMPROVEMENT IN THE MODE OF SECURING BUTTON-HOLES.

Specification forming part of Letters Patent No. 133,554, dated December 3, 1872.

To all whom it may concern:

Be it known that I, JOHN WATERS, of the city, county, and State of New York, have invented certain Improvements in Encircling Button-Holes with Metallic Rims, of which the following is a specification:

The object of my invention is to prevent the tearing of the fabrics into which button-holes are made in a simpler, cheaper, and neater manner than heretofore done.

In order to describe my invention more fully, I will refer to the accompanying drawing forming part of this specification.

Figure I is a front view of a piece of carriage-cover embodying my invention. Fig. II is a back view of the same. Fig. III is a cut sectional view through line *x x*, Fig. I. Fig. IV is a detached side view of the rear part of the rim.

A is the fabric, in which is cut the button-hole B. C is the front rim, which is stamped or pressed out of metal. *a a* are four (more or less) projections of the rim C, which are stamped or pressed out of the same metal together with the rim C, and then bent downward in a right angle to the rim. D is the back rim, also stamped or pressed out of metal, but without any projections. In order to apply the rims to the fabric, four (more or less)

insertions are made into the same, and just as many as the rim C has projections *a a*. These insertions are made in a distance from the button-hole corresponding with the circle of the rim C, and the projections *a a* are placed in these insertions. The back rim D is then slipped over the projections *a a*, pointing out on the back of the fabric, and the projections *a a* are bent over the rim D, which will firmly hold the two rims C and D together, and compress the fabric in such a manner that the tearing out of the fabric around the button-hole will entirely be prevented.

I have found by experimenting that the best metal for this purpose is Norwegian iron; but I do not confine myself to this or any other kind of metal, nor do I confine myself to the circular form of the rims. Oval-shaped or other form of rims may be used to the same advantage; but

What I wish to claim as my invention is—

The metallic rim C with projections *a a*, and the metallic rim D, in combination with a button-hole, B, substantially as and for the purposes hereinbefore shown and set forth.

JOHN WATERS.

Witnesses:

FRANKLIN BARRITT,
RICHARD GERNER.