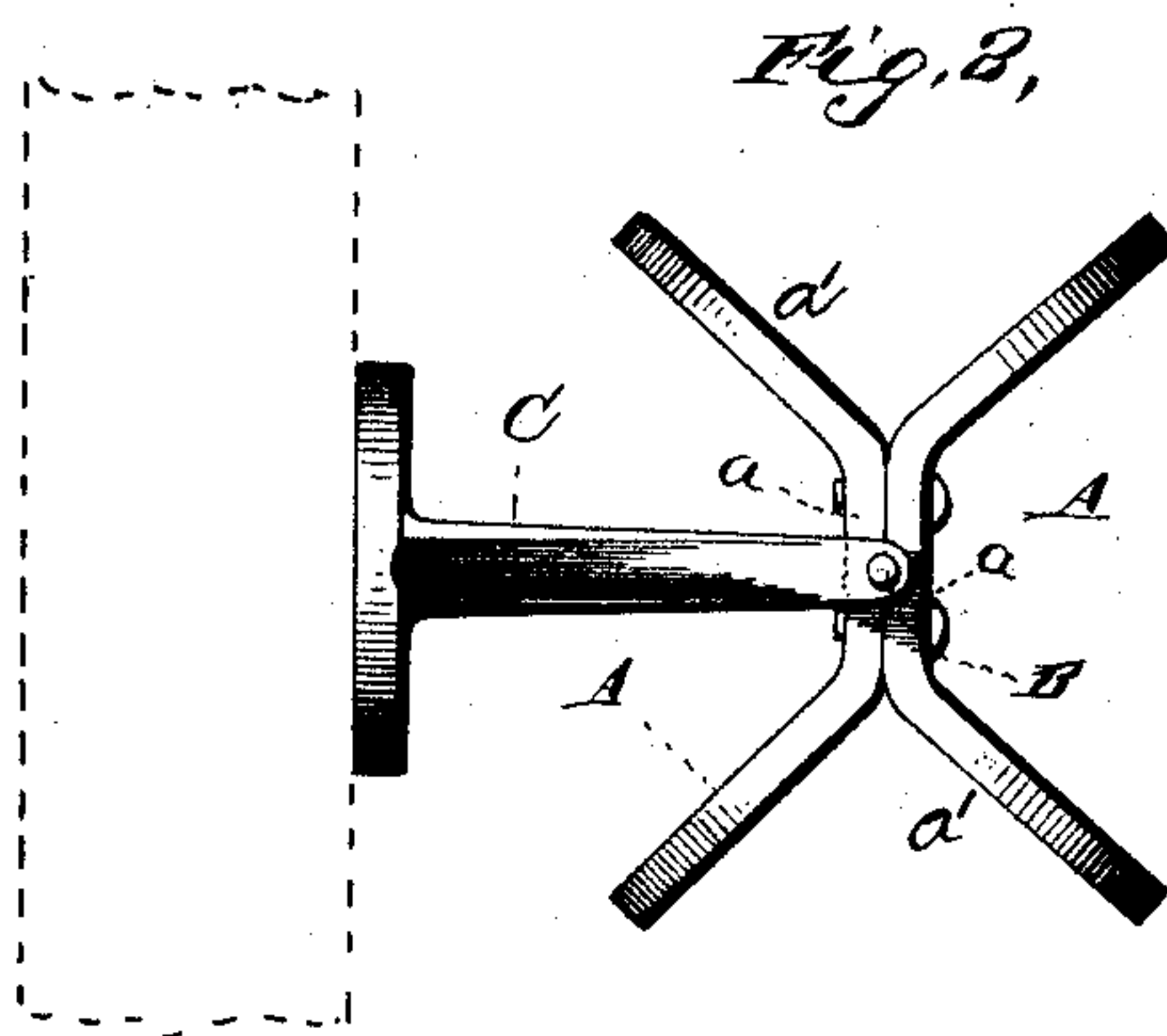
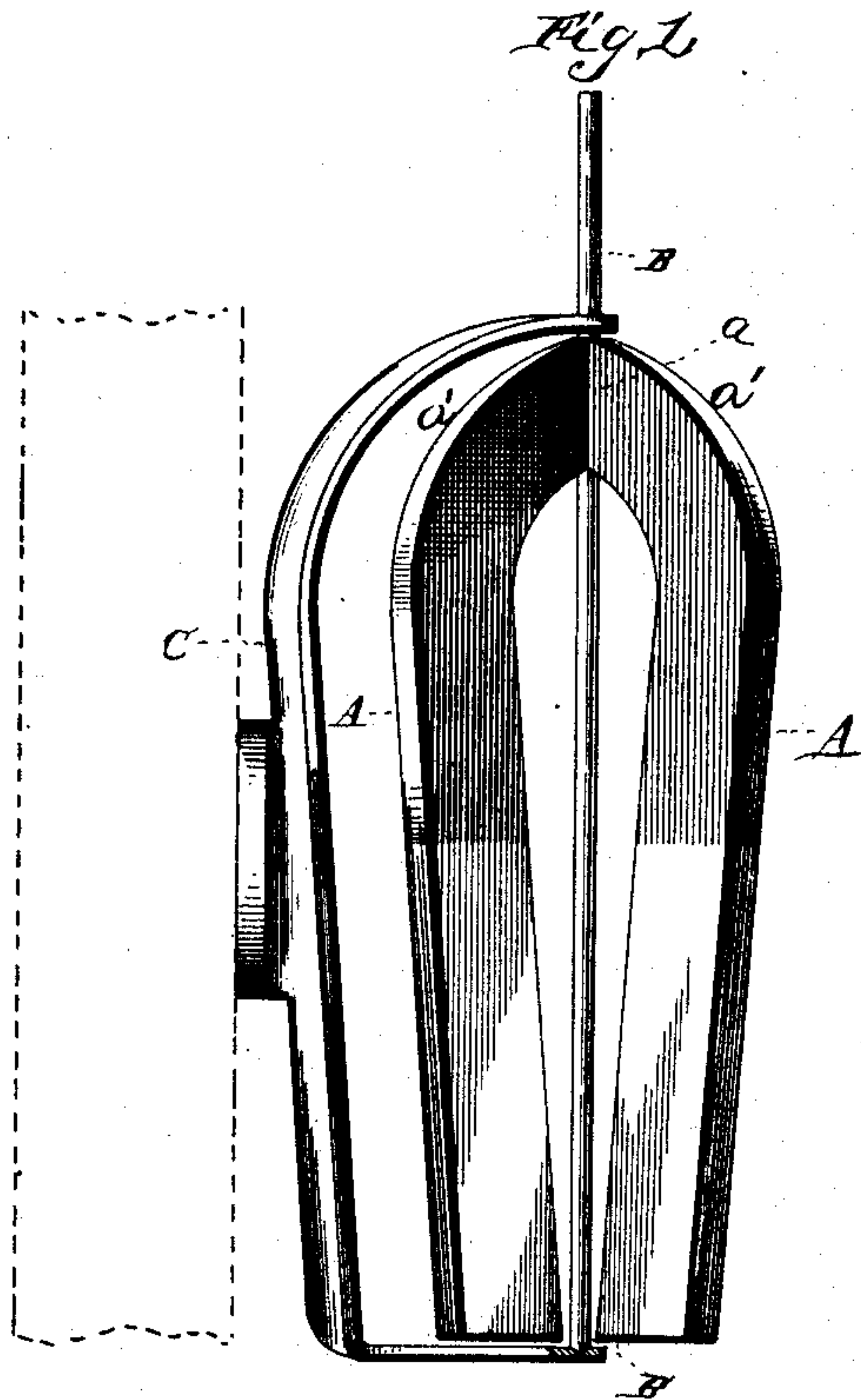


(No Model.)

F. F. IDE.
WATCH DEMAGNETIZER.

No. 429,033.

Patented May 27, 1890



WITNESSES
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UNITED STATES PATENT OFFICE.

FERDINAND F. IDE, OF PEORIA, ILLINOIS.

WATCH-DEMAGNETIZER.

SPECIFICATION forming part of Letters Patent No. 429,033, dated May 27, 1890.

Application filed January 30, 1890. Serial No. 338,620. (No model.)

To all whom it may concern:

Be it known that I, FERDINAND F. IDE, a citizen of the United States, and a resident of Peoria, in the county of Peoria and State of Illinois, have invented certain new and useful Improvements in Devices for Demagnetizing Watches; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a side view of the invention, and Fig. 2 is a top view.

This invention relates to improvements in devices for demagnetizing watches; and it consists of the novel combination and construction of parts, as will fully appear from the following description and accompanying illustration.

In the embodiment of my invention I employ a number of horseshoe-shaped magnets A, preferably two, which are connected or secured together at their curved portions by means of screws or otherwise, and for this purpose, as well as to enable their legs to stand radially to an axis or spindle centrally thereof, said curved portions are formed with central parallel surfaces *a a*, placed back to back, and connected to said legs by extra curved portions *a'*, arranged in the horizontal plane.

B is a central spindle or axis, secured between the magnets A at their point of union, one portion of said spindle or axis extending some distance beyond the connected-together portions of said magnets, and bearing in one arm of a bracket C, preferably of brass, the opposite end of said spindle or axis being tapered or pointed and bearing in a cavity in the opposite arm of said bracket. The bracket C is adapted to permit of its being fastened to any suitable support.

The instrument is used as follows: The projecting portion of the spindle or axis B being grasped between the forefinger and thumb of the right hand is revolved, carry-

ing with it the magnets, and the watch, held in the other hand, is held, say, about a foot away from and centrally of the poles of the magnets, and is then moved slowly toward the same, thus finally bringing the balance-cock of the watch in contact with the under side of the lower arm of the bracket C, which is smooth for that purpose, the watch being there held for several seconds. Now move the watch slowly away about a foot distance, being careful to keep the magnets continually revolving during the entire operation, which generally should occupy eight to ten seconds. This method will have to be slightly varied in some instances, which experience will soon suggest. The base of operation must always be confined to the watch-balance, as any bad performance of the watch is due to irregularity at this point.

The poles of the magnets, it is obvious, may be presented upward or downward, as desired.

Having described this invention, what I claim, and desire to secure by Letters Patent, is—

1. In a demagnetizing device for watches, the combination, with the bracket, of the series of revolving connected-together magnets and their spindle or axis bearing in said bracket, one end of said spindle or axis projecting beyond said bracket, substantially as and for the purpose set forth.

2. The demagnetizing device for watches, which consists of the horseshoe-shaped magnets secured together at their curved portions and to a central spindle or axis and arranged radially to said spindle or axis, and the supporting-bracket which forms bearings for said spindle and has its lower arm projecting under the poles of said magnets and preferably smooth upon its lower surface, substantially as specified.

In testimony whereof I affix my signature in presence of two witnesses.

FERD. F. IDE.

Witnesses:

J. H. RYMAN,
W. H. SMITH.