

No. 839,876.

PATENTED JAN. 1, 1907.

J. S. NAERY.
DOOR HOLDER FIXTURE.
APPLICATION FILED OCT. 14, 1905.

Fig 1.

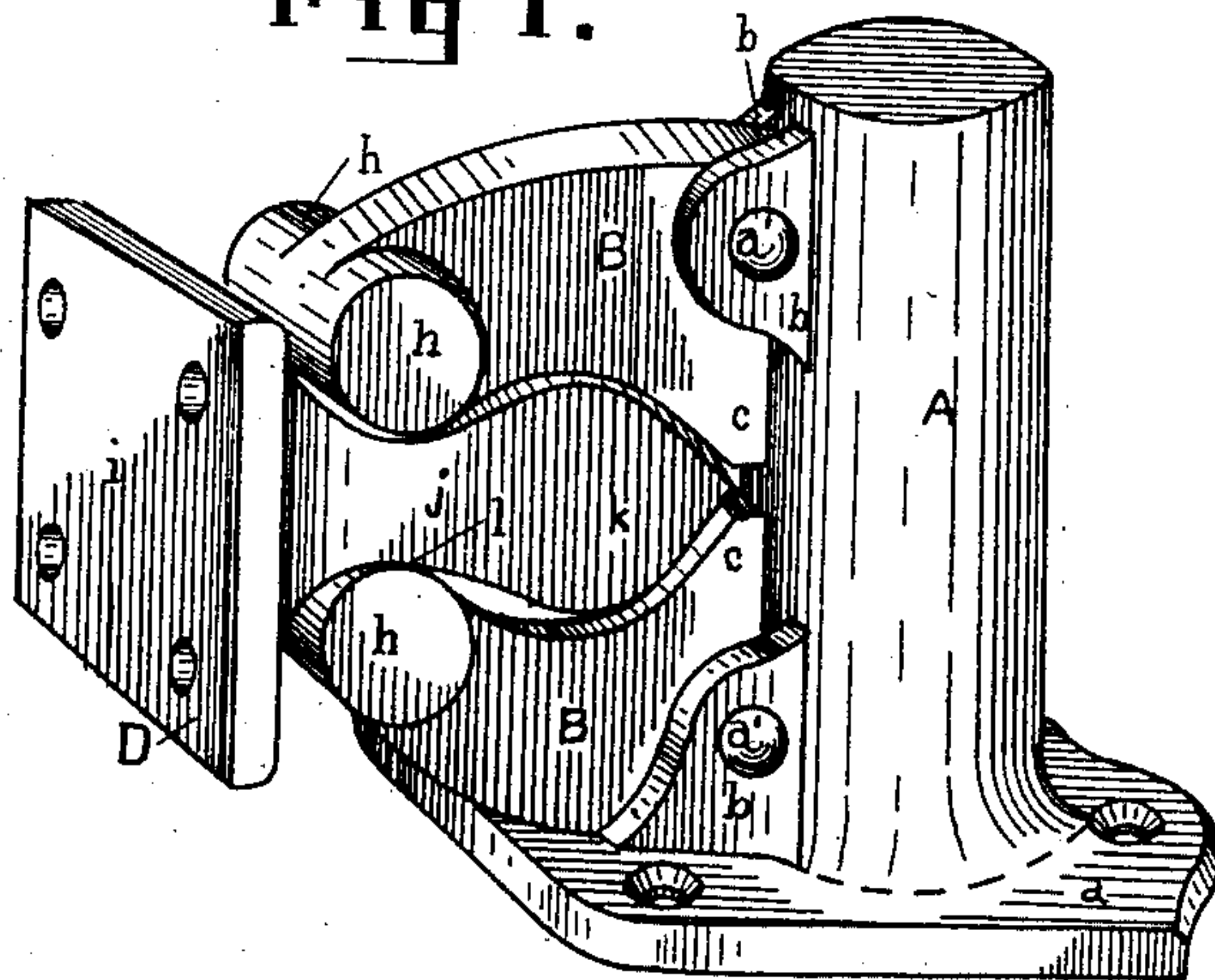


Fig 2.

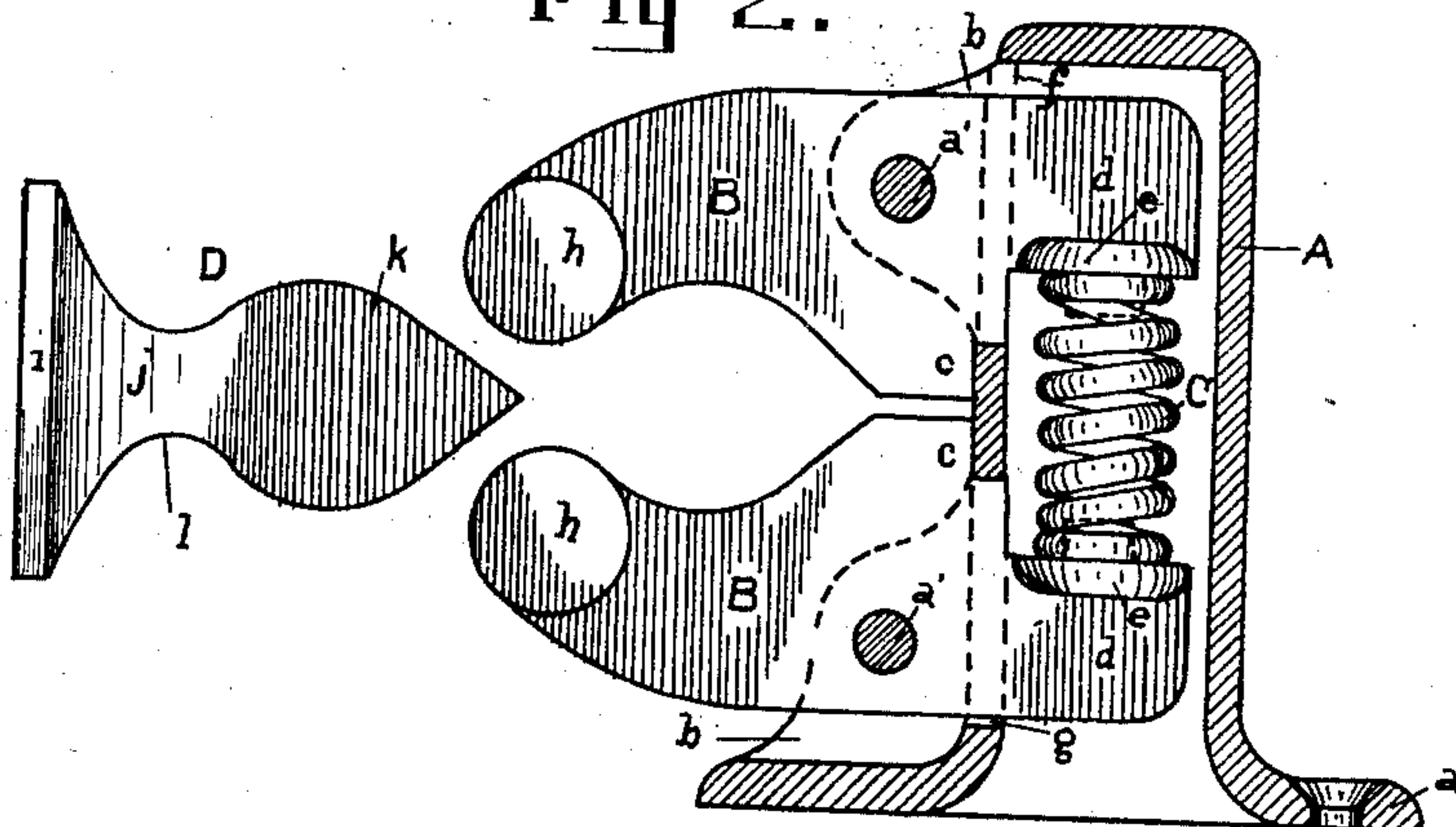
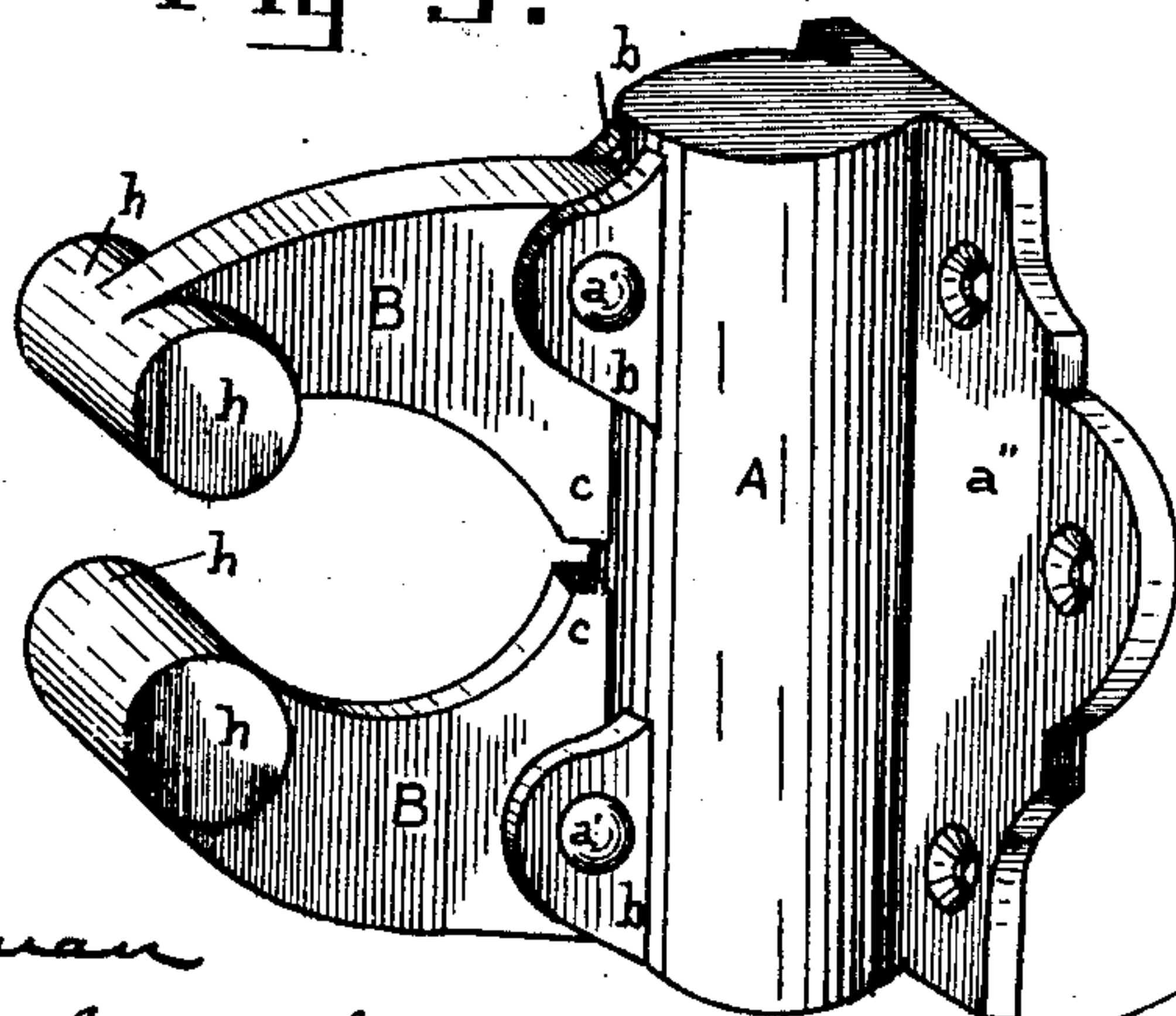


Fig 3.



Attest

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DOOR-HOLDER FIXTURE.

No. 839,876.

Specification of Letters Patent.

Patented Jan. 1, 1907.

Application filed October 14, 1906. Serial No. 282,828.

To all whom it may concern:

Be it known that I, JOHN S. NAERY, a citizen of the United States, and a resident of the city of La Fayette, in the county of Tippecanoe and State of Indiana, have invented certain new and useful Improvements in Door-Holder Fixtures; and I do hereby 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 the letters of reference marked thereon, as forming a part of this specification.

My invention relates to door-holder fixtures, and has reference more particularly to the class of door-holders that are intended for use in holding open the doors of railway-cars, but which are also applicable for use in other places.

The invention has for its object to improve upon the various forms of door-holders now and heretofore employed for the purpose aforesaid; and it consists in the combination and arrangement of parts illustrated in the accompanying drawings and hereinafter fully described and claimed.

In the said drawings, Figure 1 is a perspective view of the fixture with the retainer and holder coupled together. Fig. 2 is a side elevation showing the body in section and the retainer detached from the holder. Fig. 3 is a perspective view of the holder, showing a modification in the form thereof.

Similar letters of reference indicate corresponding parts throughout the drawings.

A represents a hollow (preferably cylindrical) body having a base-plate *a* and two pairs of ears or extensions *b*.

B represents a pair of reciprocating arms having vertical and horizontal extensions or stops *c d*, arranged one above the other and each being pivoted to and between a pair of the said extensions *b* at *a'*, as shown. The said horizontal extensions extend into the body A and are provided with bearing members *e* to receive the ends of a coiled spring C, located within the said body and against which the said spring exerts pressure and force the outer or free ends of the said reciprocating arms toward each other until such movement is arrested by the said extension *c* coming in contact with the body A, in which openings *f g* are provided for the passage and

operation of the arms B, as shown more clearly in Fig. 2.

The free ends of the reciprocating arms are provided with laterally-extending members *h*, the purpose of which is to broaden the said ends of said arms, so as to present a greater bearing-surface, and they are rounded to reduce resistance when engaging and disengaging the retainer, presently to be described.

The part of the fixture above described constitutes what I term the "holder," and the part which I am now about to describe is what I term the "retainer," and the said two parts constitute the complete door-holder fixture. The said retainer consists of a piece D, having a base-plate *i*, from which projects an arm *j*, provided with an enlarged rounded and beveled end *k*, forming a contracted neck *l*, which the rounded ends of the reciprocating arms B engage, as shown in Fig. 1, when the fixture is in use, its operation being as follows: The base-plate *a* is secured to the floor of the car and the base-plate *i* to the door in such relative positions as to permit of their engagement, as shown in Fig. 1, when the door is open, the spring C yielding to the force of the door when reciprocating arms B of the holder come in contact with the arm *j* of the retainer, thus permitting the said arms B to open sufficient to pass over the enlarged head *k* of the same, when the pressure of the spring will close the arms B and cause them to engage the contracted neck *l*, and thereby hold the door in an open position and from which it can be released by a slight pull in the usual manner. It is to be understood, however, that instead of locating the base-plate *a* at the bottom of the cylindrical body A, as shown in Figs. 1 and 2 of the drawings and as hereinbefore described, it may be located as shown at *a''* in Fig. 3, in which case the holder may be secured to the door or to a partition, as may be most convenient; also that it may be otherwise located to suit requirements.

Having thus fully described my invention, I claim—

1. In a door-holder fixture, a holder comprising a base-plate; a hollow cylindrical body connected therewith; a plurality of ears or extensions projecting from the vertical wall of said body and arranged in pairs at or near each end thereof, a pair of reciprocating arms pivoted to said ears or extensions; one of said arms being mounted between each

pair thereof, a coiled spring located within the said hollow body between the inner ends of said reciprocating arms and operating to force the outer ends thereof toward each other, in combination with a retaining device consisting of a base-plate and an arm projecting therefrom having an enlarged head and contracted neck adapted to receive the outer ends of said arms, substantially as and for the purpose set forth.

2. In a door-holder fixture; in combination, a hollow cylindrical body, a plurality of ears or extensions projecting from the vertical wall of said body and arranged in pairs at or near the ends thereof, a pair of reciprocating arms pivoted to said ears or extensions; one of said arms being mounted between each pair thereof and each arm being provided with a stop adapted to engage said body to limit the inward movement of the

arm; and a horizontal extension which projects into the hollow of said body, a coiled spring located within said body between said horizontal extensions and which exerts pressure thereagainst and forces the outer ends of said arms toward each other, means for securing said hollow body to a suitable support, and a retaining device adapted to be secured to a support and to engage said inner ends of said reciprocating arms, substantially as and for the purpose set forth.

In testimony that I claim the foregoing as my own I hereunto sign my name, this 10th day of October, 1905, in the presence of two witnesses.

JOHN S. NAERY.

Witnesses:

GEO. D. PARKS,
CELIA E. KENZLER.