

No. 706,168.

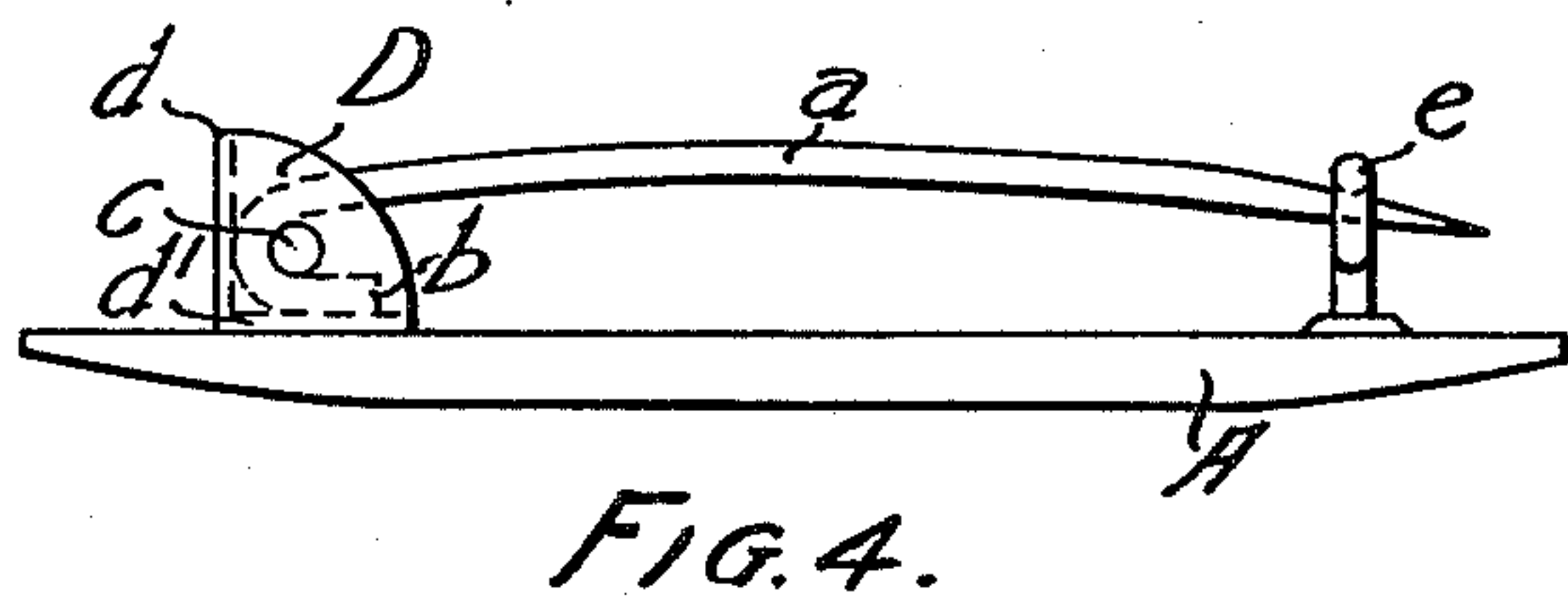
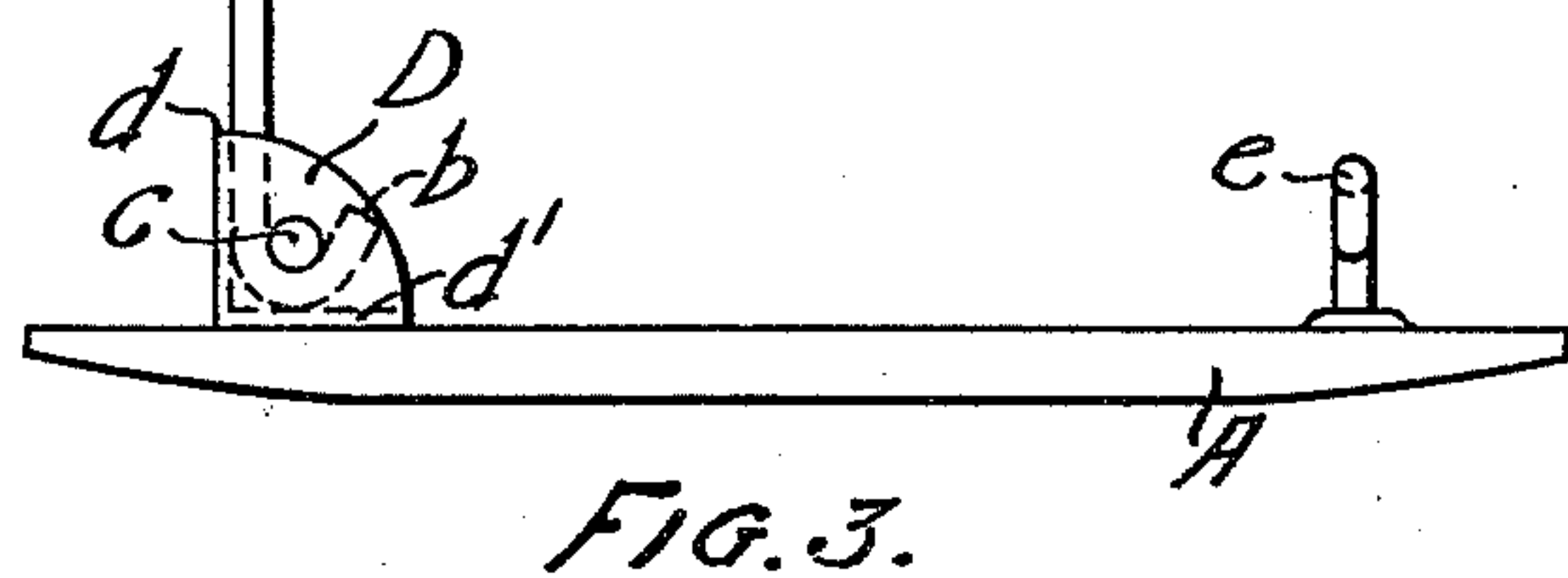
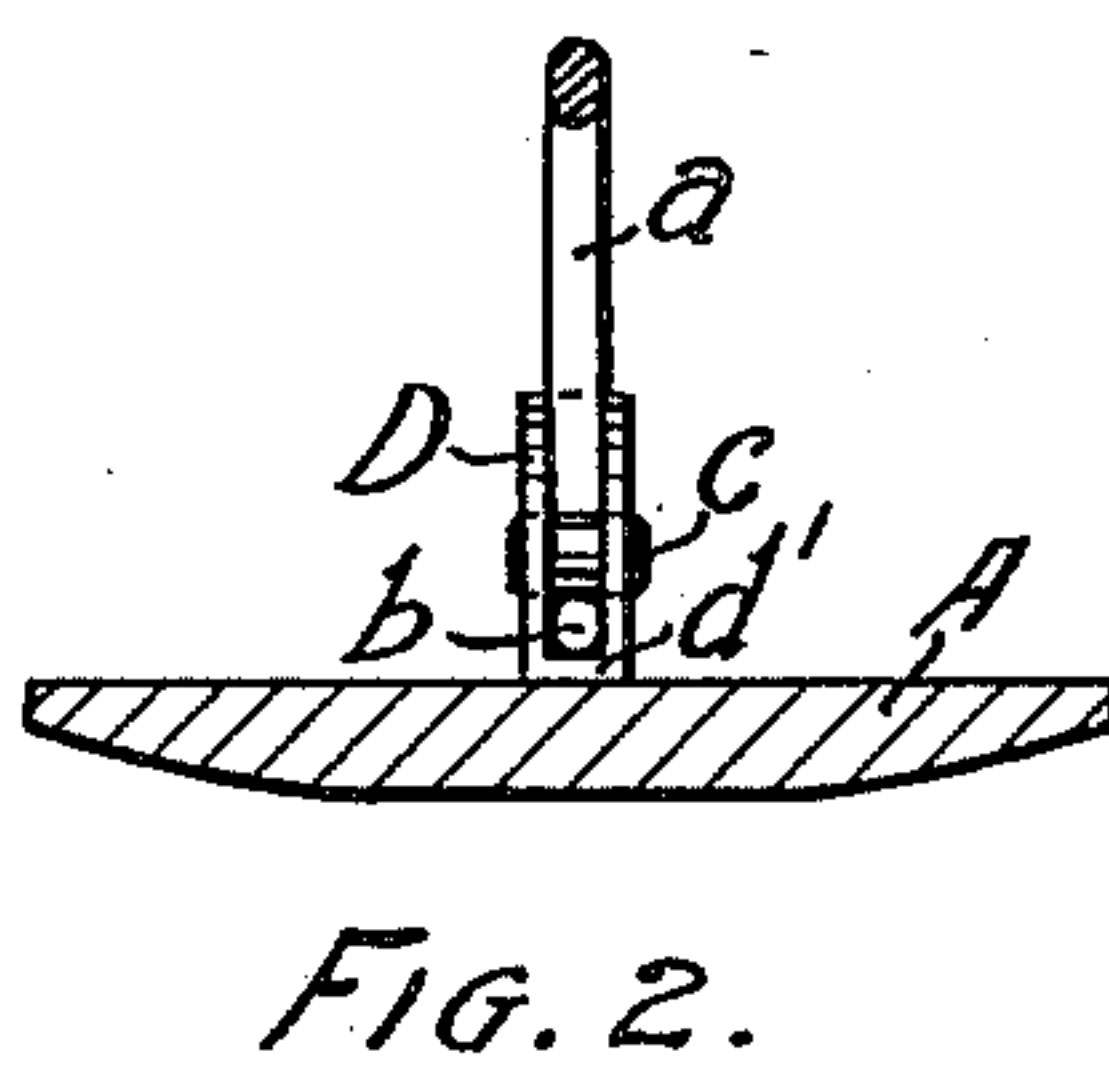
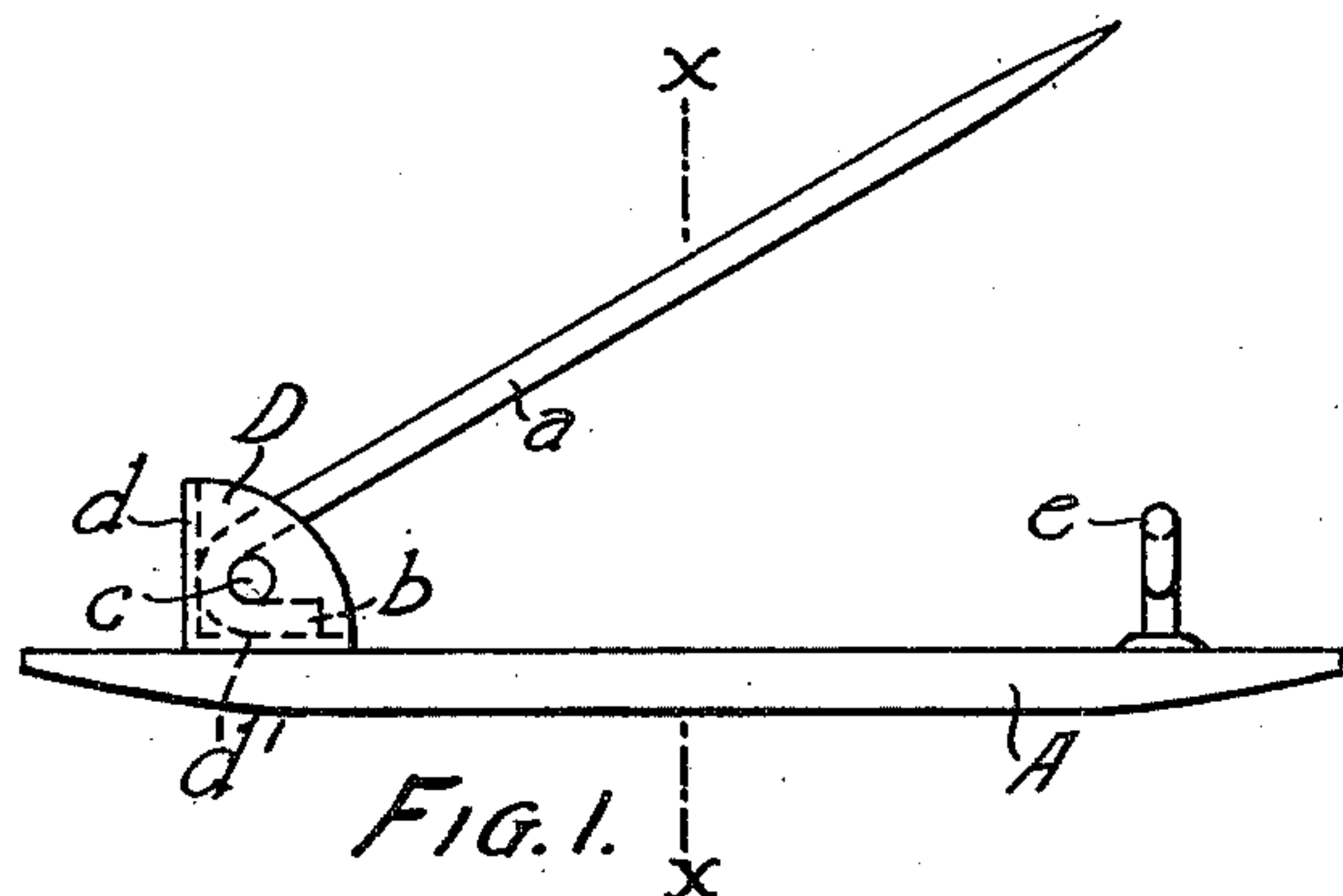
Patented Aug. 5, 1902.

G. W. DOVER.

PIN.

(Application filed Dec. 7, 1901.)

(No Model.)



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PIN.

SPECIFICATION forming part of Letters Patent No. 706,168, dated August 5, 1902.

Application filed December 7, 1901. Serial No. 85,102. (No model.)

To all whom it may concern:

Be it known that I, GEORGE WILLIAM DOVER, a citizen of the United States, residing at Cranston, in the county of Providence and State of Rhode Island, have invented certain new and useful Improvements in Pins, of which the following is a specification.

My invention relates to pin tongues and joints applicable to ornamental brooches and safety-pins, and has for its purposes cheapness and stability.

The invention consists in the novel construction described, and illustrated in the accompanying drawings, wherein—

Figure 1 is a side elevation of my device with disengaged tongue; Fig. 2, a transverse section of same on line *xx* of Fig. 1; Fig. 3, a side elevation of the device with tongue at its opened limit, and Fig. 4 a similar view of the same with the tongue engaged with the catch.

Like letters of reference indicate like parts throughout the views.

In the drawings, A represents the front plate of an ornamental pin, D a quadrant-shaped housing for the pin-joint consisting of two parallel walls—a base *d'* and an upright wall *d*. The housing may have a circumferential measurement of less than a quadrant under some circumstances. A bar *c* transversely traverses the housing D at a predetermined point regulated by the diameter of the stock employed in the pin-tongue—that is, the bar should be sufficiently distant from both the base *d'* and the upright wall *d* of the housing to allow a rotary slide of the pin-tongue without disengagement therewith. This is rendered clearer by reference to the tongue, which consists of a body or pin portion *a*, whose blunt end is bent near its extremity at an angle of less than ninety degrees to itself, forming a bearing or base *b* to furnish tension for the pin-body. An ordinary pin-catch *e* is fixed to ornamented plate A at a point opposite the housing D.

Heretofore pin-tongues have been mounted and rotated upon a pivoting-pin. The tongue-head when solid has been flattened for receiving the bore for the pivoting-pin, thereby

weakening the structure. In other cases a loop has been formed to bear around the pivoting-pin and its free end bent into a projection, which has been both expensive and insecure. It will be noted that my pin-tongue is practically unmounted, but merely bears against the cross-pin in whatever position the tongue may assume. The proximity of the housing-base *d'* and wall *d* to the transverse bar *c* guides and retains the tongue in position.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In an article of the class described, the combination with a plate, of a housing secured thereto having side walls and an end and bottom wall, a pivot secured in the side walls crossing the space between the same, adjacent to the angle of the housing, and a pin comprising a shank portion having an entering end and a recurved pivoted end, the latter describing a curve of less than a half-circle, said curved end being confined between said pivot and the end and bottom walls of the housing, the extreme end thereof coacting with the bottom wall of the housing to limit the movement of the pin in one direction, and the major portion of the pin coacting with the end wall to limit the movement of the pin in an opposite direction.

2. In combination, a housing comprising side walls, and an end and bottom wall, a pin proper having its blunt end recurved, the latter describing a curve of less than a half-circle a pivot finding a bearing in the bail thereof, the end wall coacting with the pin to limit its pivotal movement in one direction and the bottom wall coacting therewith to limit its movement in the opposite direction, the pivoted end of the pin being retained in place by the proximity of the pivot to the side walls of said housing.

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

GEORGE WILLIAM DOVER.

Witnesses:

H. M. MAYS,

HORATIO E. BELLOWES.