

No. 810,692.

PATENTED JAN. 23, 1906.

K. ANDERSON & L. PEDERSON.

DOOR SECURER.

APPLICATION FILED JUNE 23, 1905.

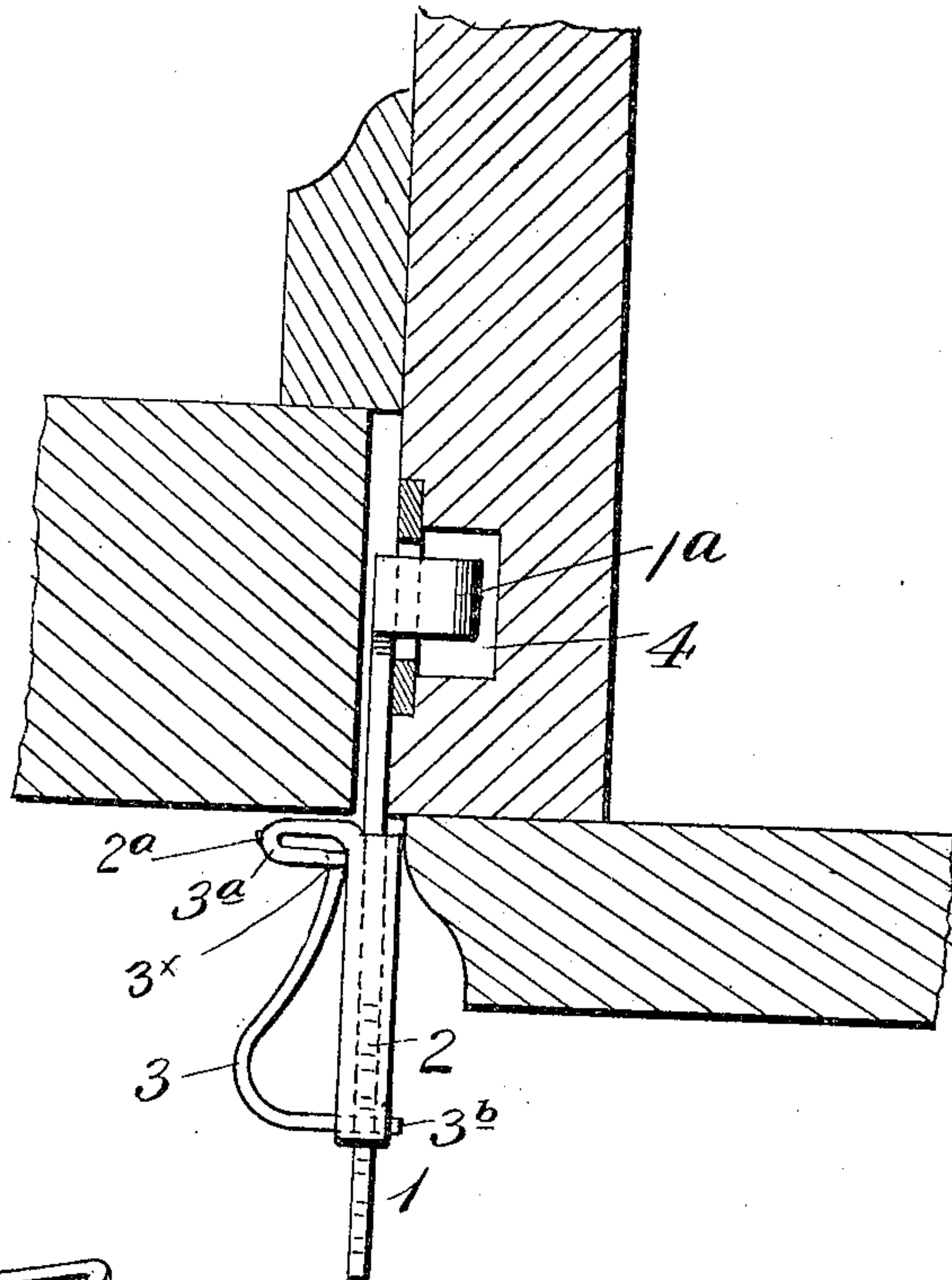


Fig. 1

Fig. 2

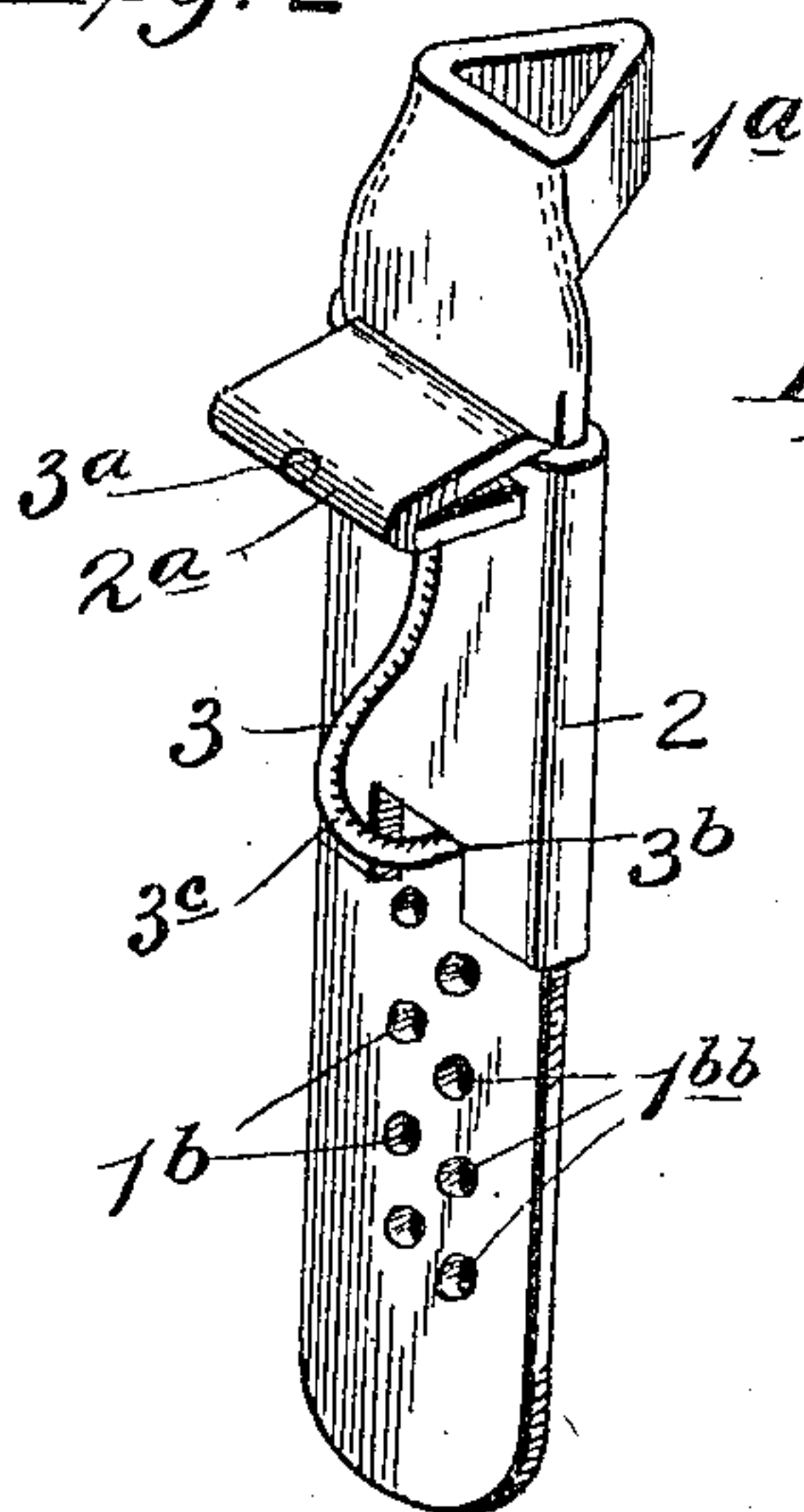


Fig. 4

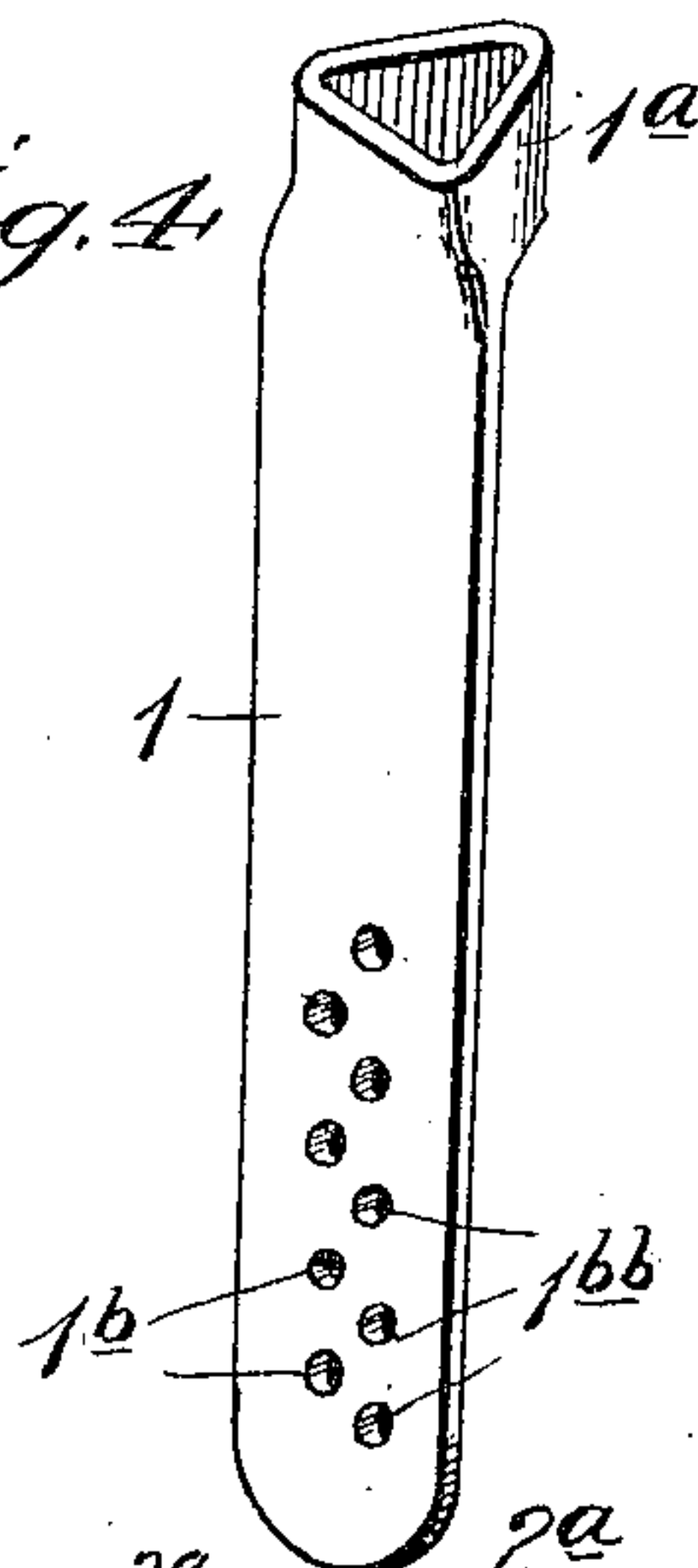


Fig. 3

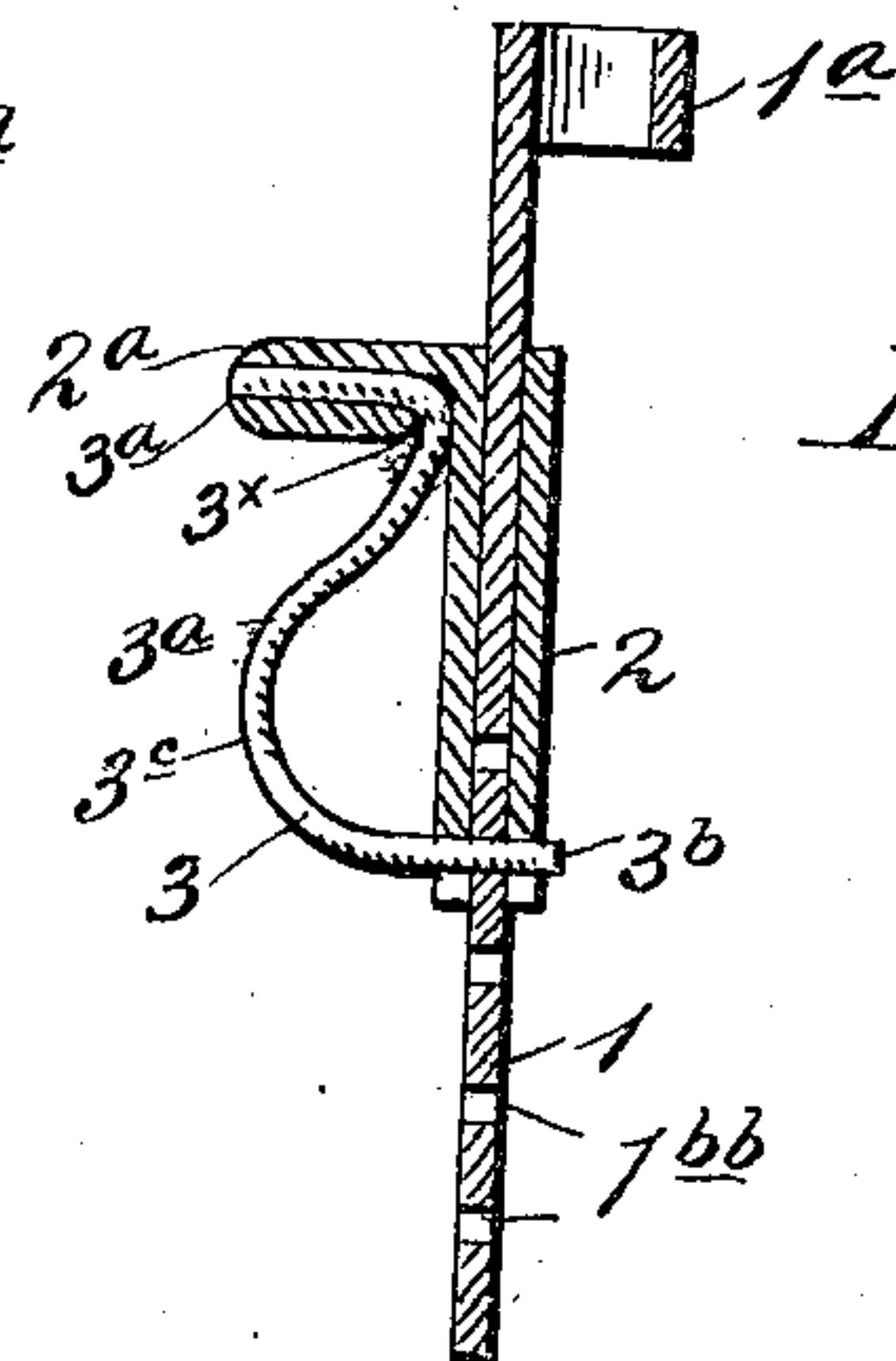
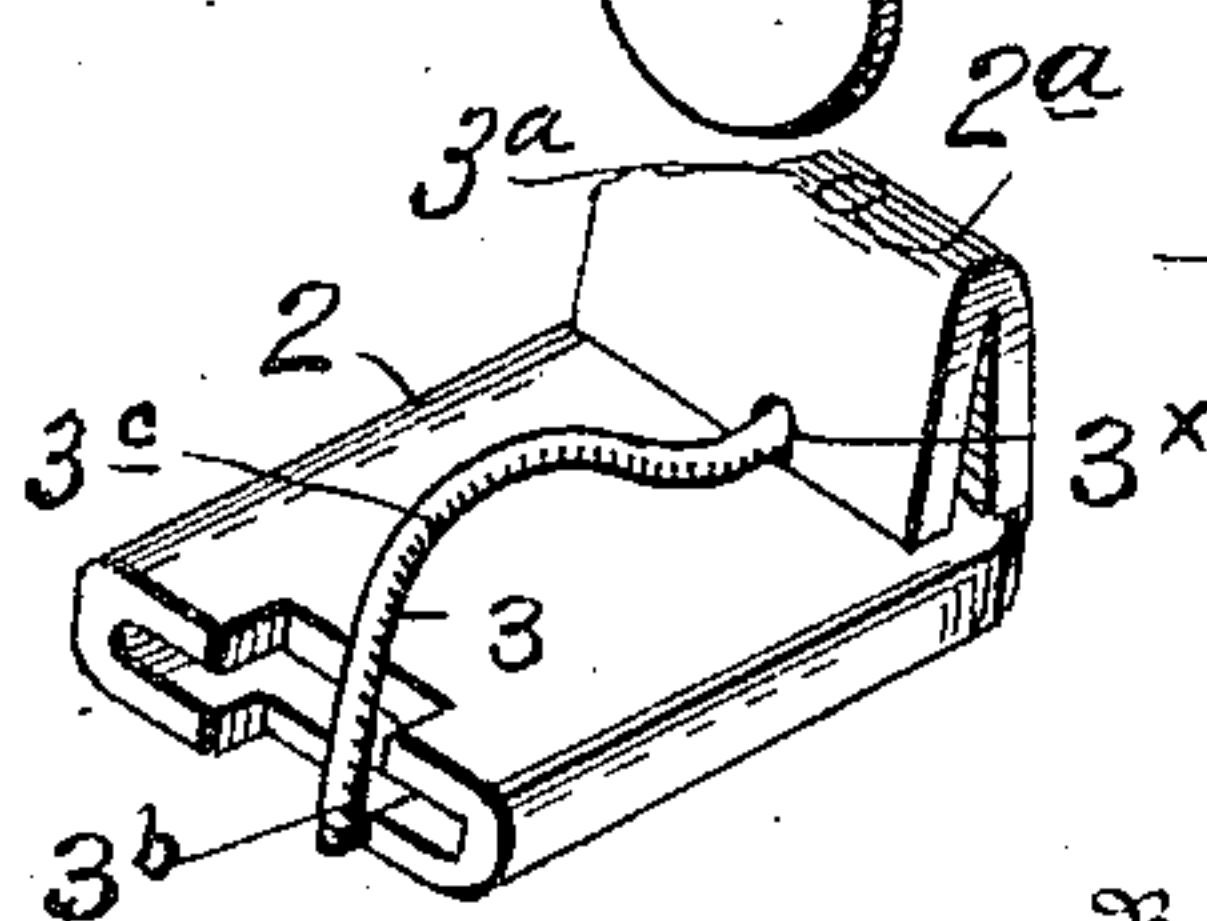


Fig. 5



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KNUD ANDERSON, OF TACOMA, WASHINGTON, AND LARS PEDERSON, OF MANITOWOC, WISCONSIN, ASSIGNORS OF ONE-THIRD TO HANS MEYER, OF MANITOWOC, WISCONSIN.

DOOR-SECURER.

No. 810,692.

Specification of Letters Patent.

Patented Jan. 23, 1906.

Application filed June 23, 1905. Serial No. 266,634.

To all whom it may concern:

Be it known that we, KNUD ANDERSON, residing at Tacoma, in the county of Pierce and State of Washington, and LARS PEDERSON, residing at Manitowoc, in the county of Manitowoc and State of Wisconsin, citizens of the United States, have invented new and useful Improvements in Door-Securors, of which the following is a specification.

Our invention relates to improvements in that class of devices which are known as "door securers" or "fasteners."

Objects of the invention are to provide for the effective locking of the door without the use of the usual key-operated lock or bolt, to do this in an expeditious, simple, and convenient manner, and to provide for readily applying the contrivance or fastening as in effecting the locking operation.

To these ends the invention consists of certain structural features and the combination and arrangement of parts, substantially as hereinafter fully disclosed and particularly pointed out.

In the accompanying drawings, Figure 1 is a horizontal section showing our invention in its preferred embodiment as applied in practical use. Fig. 2 is a detached perspective of the securer or fastener proper. Fig. 3 is a longitudinal or axial section thereof. Fig. 4 is a disassembled perspective view of one member of the fastener, and Fig. 5 is a like view of the other member of said fastener.

In the carrying out of our invention we constitute the same of two parts or members 1 and 2, respectively. The member or part 1 consists of a preferably flat bar of approximately or wholly plate-like dimension as to thickness, it otherwise being narrow and rectangular or oblong and equipped with a lateral lug or tooth-like formation 1^a at one end, the same being preferably stamped up or formed therewith in skeleton form, as it need not be solid in its complete area for the intended purpose. Said bar or plate member 1 is also provided with numerous apertures or holes, constituting, rather, two series 1^b 1^{bb}, arranged in the axial plane of said member and close together, with the apertures or holes of one series alternating those of the companion series, as shown, for a purpose presently made apparent.

The member or part 2 forms principally a sleeve or cuff effective to be slid and held upon the aforesaid member, and which has at one or its inner end a lateral or outstanding projection or lug 2^a. Said lug and the lug 1^a of the bar or plate member 1 are arranged to extend or project in directly opposite directions from and at right angles to their respective members to conjointly effect thereby an interlocking action therebetween and the door and its jamb. The member or part 2 is also armed or equipped with a spring-metal detent or dog 3 of peculiar construction, preferably annular in cross-section and recurved in its axial plane, with one arm 3^a thereof let into the lug 2^a of the sleeve 2 as a preferable way of securing it in place, and its other arm 3^b forming the detent proper sprung through a hole 3^x in said sleeve, and a registering hole of one of the series of holes 1^b 1^{bb} of the detaining or securing plate or bar member 1. The intermediary or hump portion 3^c of the detent or dog 3 is effective to permit the requisite flexing and resilient action of the latter as in manually retracting and projecting the free end or detent proper thereof into the adjusting-holes 1^b 1^{bb}, as will be readily appreciated. The sleeve member 2 has in the forward edges of its walls relatively extended notches 2^b, receiving the projecting or free end of the detent or dog 3, and sufficiently wide to permit the latter to be shifted transversely from one to the other of alternating holes of the two series 1^b 1^{bb} in order to effect the minimum adjustment of said sleeve with its door-holding lug with relation to the door, the purpose of which is obvious.

In the practice of our invention the bar or plate member 1 is interposed or inserted from within, between the door edge and jamb; a mortise or socket 4, suitably metal-faced, if desired, presumably having been produced in the jamb to receive the tooth or lug 1^a of said bar or plate member, as disclosed especially by Fig. 1. Said plate or bar member is of course held with its lug or tooth in said mortise or socket initially until the door is closed, the latter engaging and forcing said lug effectively into said mortise, and thus holding said plate against downward displacement as well as aiding the

securing of the door. The detent-equipped member or sleeve 2 is inserted upon the projecting portion of the plate or bar member 1 with its lug or projection 2^a presented toward the door, the detent or dog 3 being grasped and sprung or forced outward sufficiently to permit it to clear the near edge or end of said plate member, and the same still held by the grasp of the fingers, while the sleeve member is continued to be moved inward until the lug 2^a contacts with the door. At this juncture the detent 3 will automatically spring into the registering hole of one of the two series of holes in the plate member 1, thus securing said sleeve member, with its door-engaging lug 2^a, together with said plate member, and its holding tooth or lug 1^a let into the jamb-mortise, all in effective locked position.

It will be noted that the aforesaid door-securing contrivance is simple of application, readily actuated, and effective in its securing action.

We claim—

1. A device of the character described, comprising a plate or bar effective for engagement with the door-jamb and having two series of adjusting-holes, and a sleeve or cuff slidable upon said bar or plate and effective for engagement with the door, and

equipped with a shiftable spring-detent for coaction with said holes.

2. A device of the character described, comprising a lug-equipped plate or bar member having two series of adjusting-holes alternating each other, and a lug-equipped sleeve member arranged for insertion thereon and having a spring-detent for engagement with either of said series of holes.

3. A device of the character described, comprising a lug-equipped plate or bar having adjusting-holes therein alternating one with the other, and a lug-equipped sleeve or cuff member having in its forward edges extended notches or recesses, and equipped with a spring detent or dog sprung through a hole in said sleeve member and effective to be laterally shifted in said notches from one to the other of said series of adjusting-holes.

In testimony whereof we affix our signatures each in the presence of two subscribing witnesses.

KNUD ANDERSON.
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Witnesses to Knud Anderson:

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