

No. 805,753.

PATENTED NOV. 28, 1905.

F. P. RICHARDS.
STOVEPIPE FASTENER.
APPLICATION FILED MAY 3, 1905.

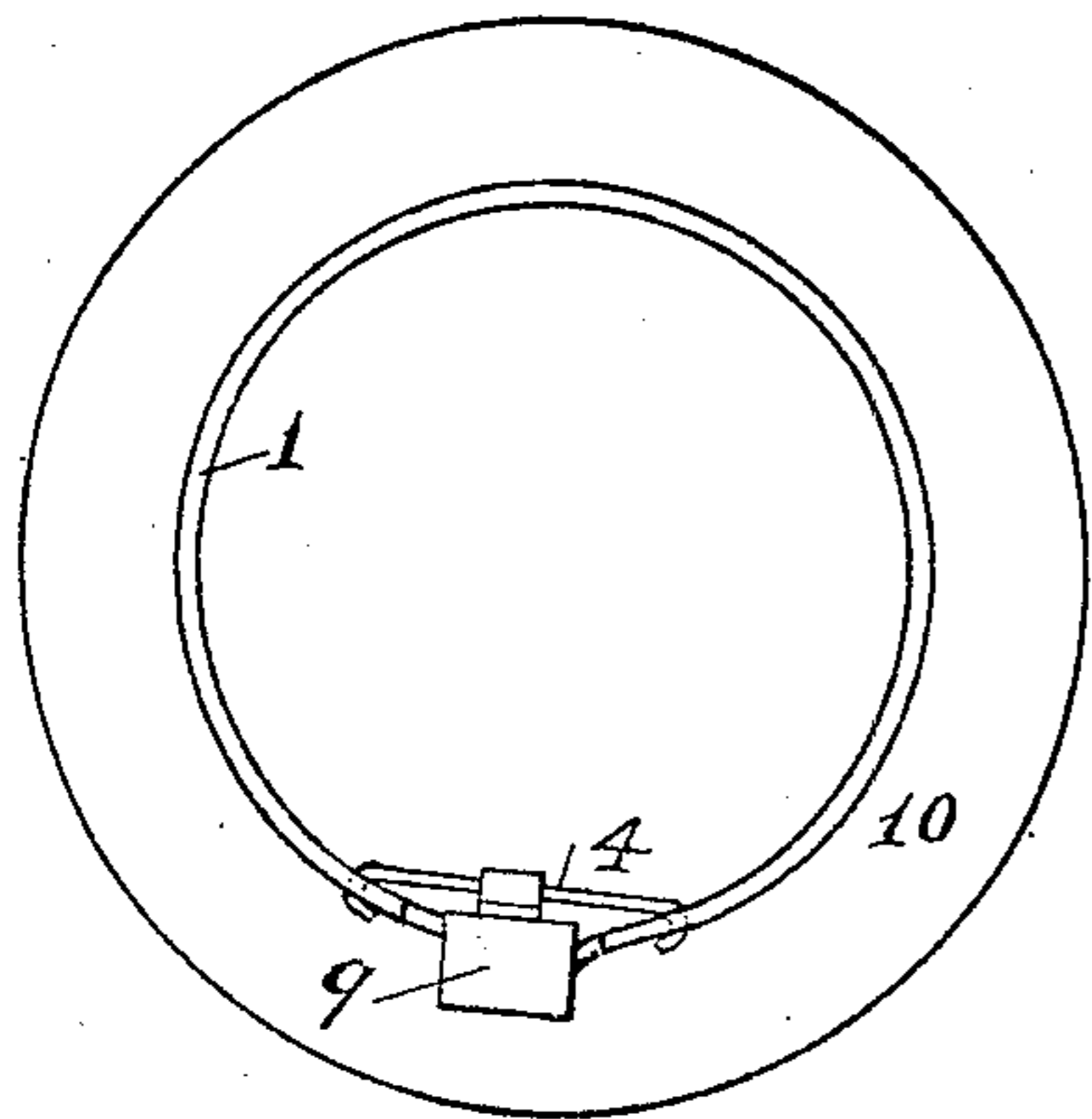


FIG. 3.

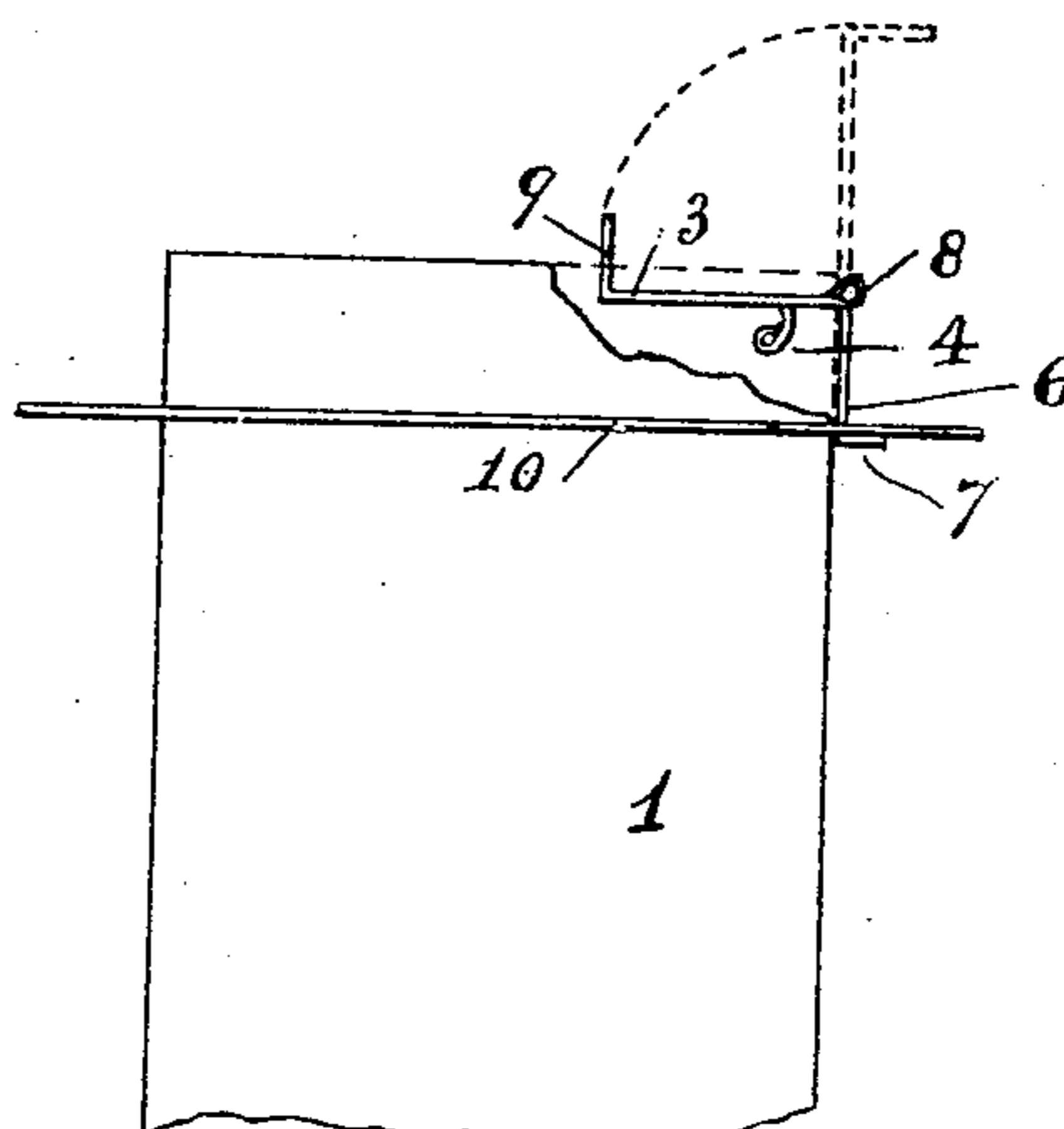


FIG. 4.

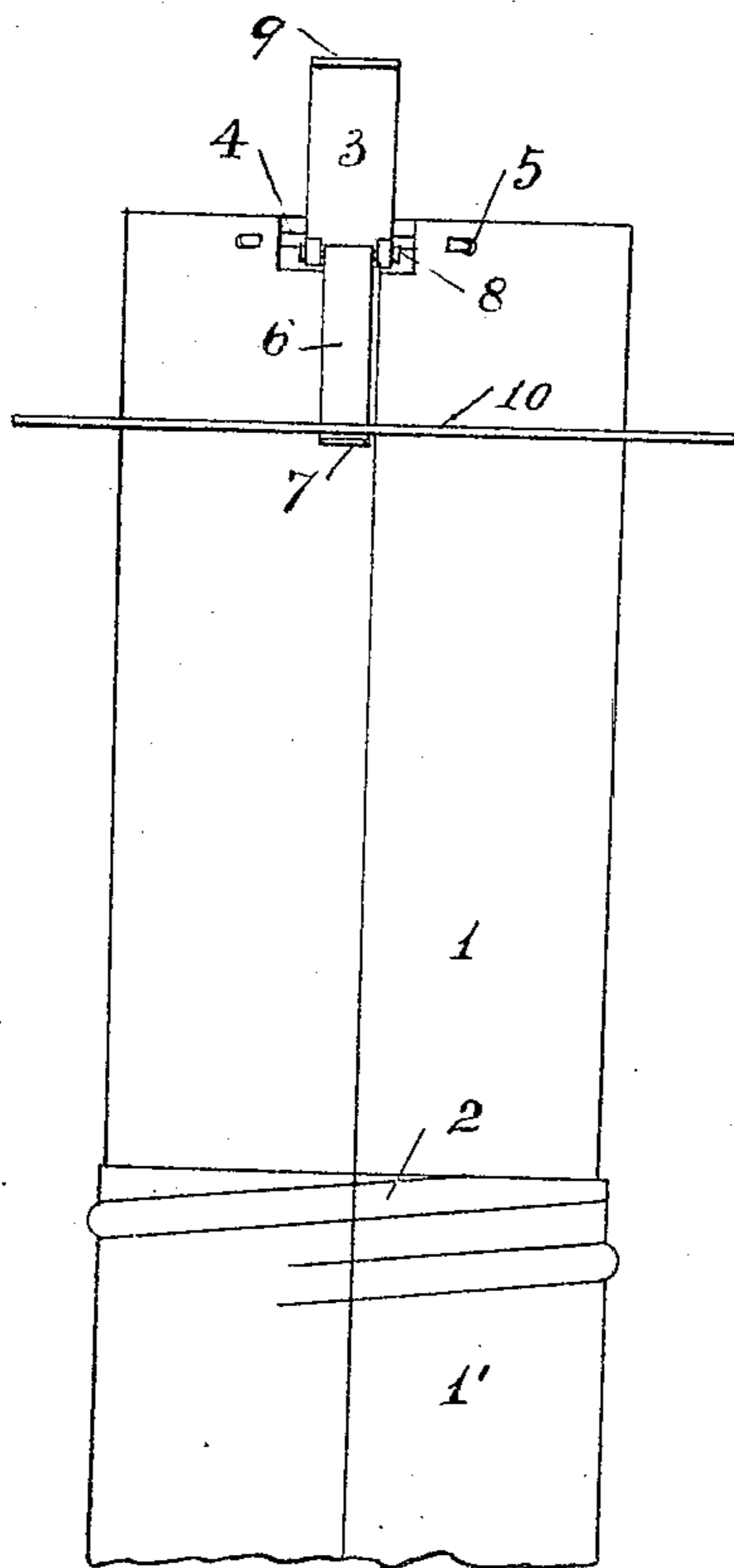


FIG. 1.

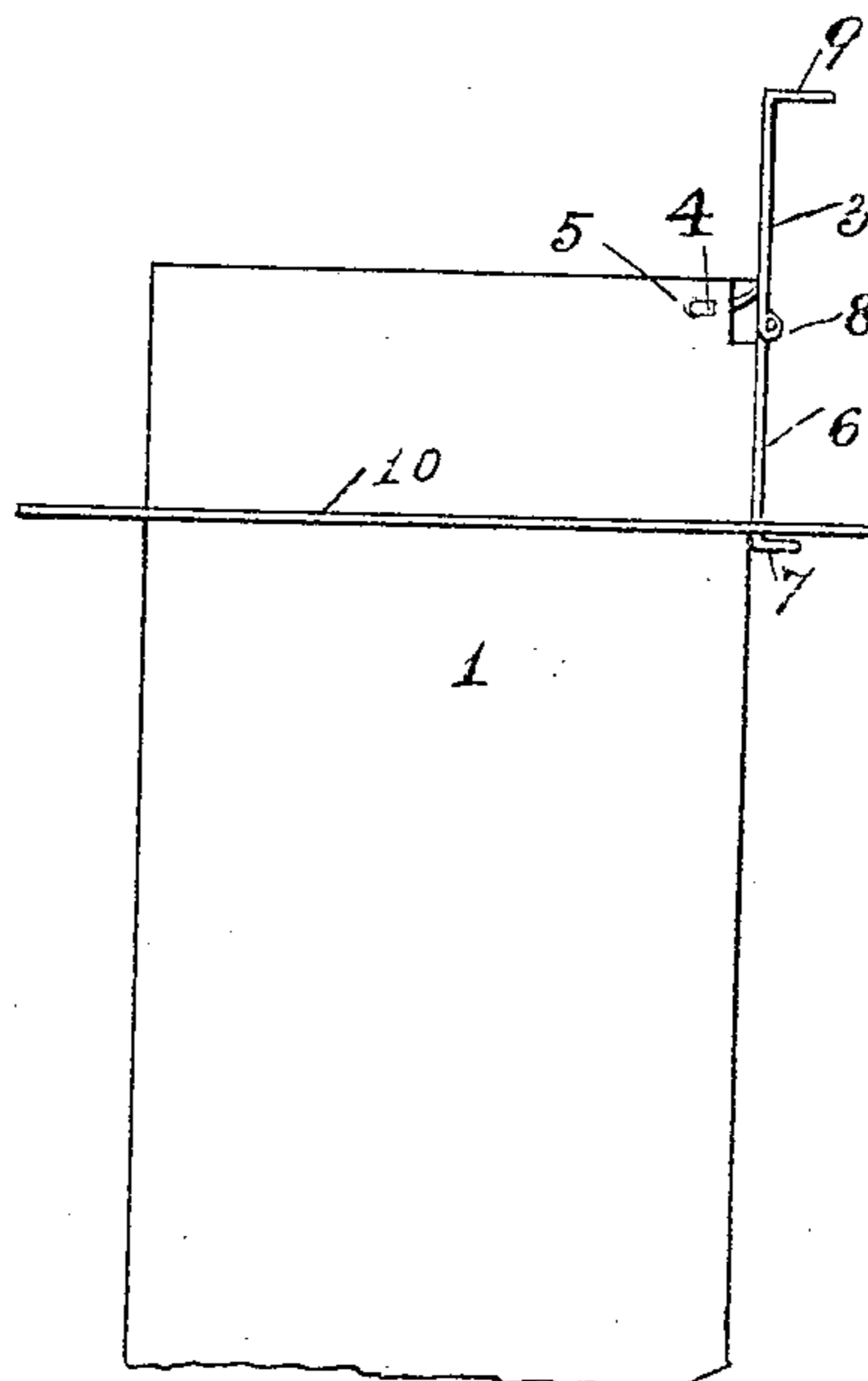


FIG. 2.

Witnesses.
Victor H. H. H.
Jas E. Caldwell.

Inventor.
FRANK P. RICHARDS.
By Atty N. DuBois.

UNITED STATES PATENT OFFICE.

FRANK P. RICHARDS, OF SPRINGFIELD, ILLINOIS.

STOVEPIPE-FASTENER.

No. 805,753.

Specification of Letters Patent.

Patented Nov. 28, 1905.

Application filed May 3, 1905. Serial No. 258,732.

To all whom it may concern:

Be it known that I, FRANK P. RICHARDS, a citizen of the United States, residing at Springfield, in the county of Sangamon and State of Illinois, have invented certain new and useful Improvements in Stovepipe - Fasteners, of which the following is such a full, clear, and exact description as will enable others skilled in the art to which it appertains to make and use my said invention.

My invention relates to means for retaining stovepipes in position in the flue-openings in which the pipes are used.

The purposes of my invention are to provide a device adapted to retain the pipe in the flue-opening and to provide means for operating the retaining device by the movement of the pipe.

With these ends in view my invention consists in the novel features of construction and combinations of parts shown in the annexed drawings, to which reference is hereby made, and hereinafter particularly described and finally recited in the claims.

Referring to the drawings, in which similar numerals designate like parts in the several views, Figure 1 is a plan of the complete device. Fig. 2 is a side elevation of the device with the latch extended. Fig. 3 is an end elevation, and Fig. 4 is a side elevation, of the device with the latch withdrawn, part being broken away to expose inclosed parts.

The pipe-sections 1 and 1' are preferably connected by beaded screw-threads 2, fitting in each other, so that by holding one of the sections stationary and turning the other section to the right the sections may be screwed together or by holding one section stationary and turning the other section to the left the sections may be unscrewed and separated. An L-shaped latch 3 is mounted to turn on a rod 4, which fits in holes 5 in the wall of the pipe-section. A plate 6 has an extension 7 at right angles thereto and is pivotally connected with the latch 3 by a hinge connection 8. The latch 3 has an extension 9 at right angles thereto. A collar 10 fits around the pipe-section 1, and the member 7 of the plate 6 engages with the face of the collar. The collar slides freely on the pipe-section.

In assembling the parts the collar is first placed on the pipe-section. The plate 6 is then inserted between the collar and the pipe-section with the part 7 adjacent to the side of

the collar, as shown. The parts 3 and 6 are then connected, as shown, and the rod 4 is then passed through the hole 5 and through the hole in the latch 3, and the ends of the rods are turned back on themselves to secure the rod on the pipe-section.

The parts being assembled as described, the device is ready for use. To insert the pipe in the flue-opening, the collar 10 is slid toward the end of the pipe-section on which the latch is mounted until the parts occupy the relative positions shown in Fig. 4. The latch is then within the pipe. The pipe is then inserted in the flue-opening and pushed inward, and the inward movement of the pipe causes the latch 3 to turn to the position indicated by dotted lines in Fig. 4, and when in that position the part 9 of the latch 3 lies adjacent to the inner wall of the flue and prevents withdrawal of the pipe. In order to withdraw the pipe, it will be pulled outward to the slight extent that the play of the parts will permit. The collar 10 will then be moved a slight distance toward the flue-opening, and the plate 6 will slightly be moved inward by pushing on the part 7, so as to cause slight downward movement of the part 9 of the latch 3, and the pipe, the collar, and the plate 6 will be thus repeatedly manipulated until the latch 3 is moved sufficiently inward to permit the withdrawal of the pipe.

It will be observed that the latch may be operated to move it into position to hold the pipe merely by pushing the pipe inward and causing the collar 10 to engage with the part 7 of the plate 6. This automatic action of the latch is a valuable feature of my invention.

The operation of the latch by alternate movement of the collar and the plate 7, as described, whereby the latch is released by stages, is also a valuable feature of my invention, inasmuch as the construction and arrangement of the parts permit the withdrawal of the pipe by design, but prevents accidental withdrawal of the pipe.

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

1. The combination of a pipe, a latch oscillative on the pipe and adapted to engage the wall of a flue, a plate connected with said latch and a collar slidable on the pipe and coöperating with said plate to move said latch.

2. The combination of a pipe, a collar slid-

able on said pipe, a rod mounted on said pipe,
a latch mounted on said rod and having a
member turned outwardly with respect to the
pipe and a plate pivotally connected with said
5 latch and having an outwardly-turned part
with which said collar engages to operate the
latch by the sliding of the collar on the pipe.

In witness whereof I have hereunto sub-
scribed my name, at Springfield, Illinois, this
25th day of April, 1905.

FRANK P. RICHARDS.

Witnesses:

JOHN A. BOYCE,
MARGARET McDONALD.