(No Model.)

G. D. BATEMAN.

STOVEPIPE COUPLING.

No. 556,174. Patented Mar. 10, 1896.

Fig. 1.

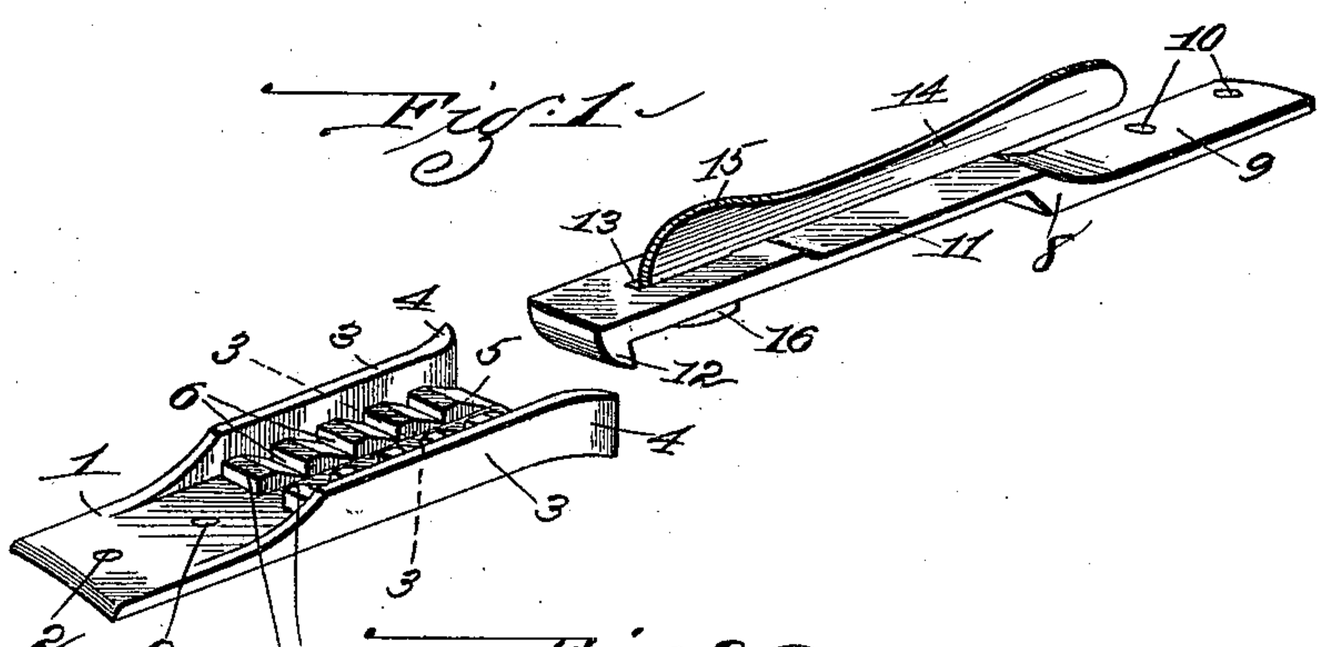


Fig. 2.

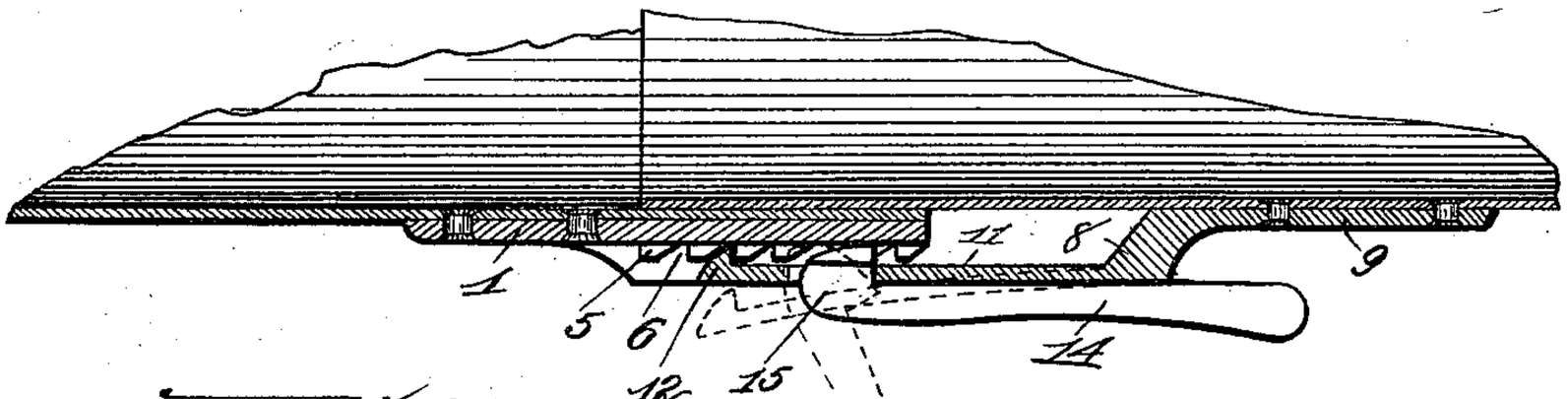


Fig. 3.

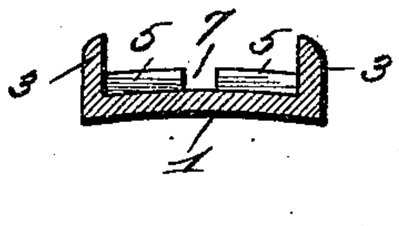


Fig. 4.

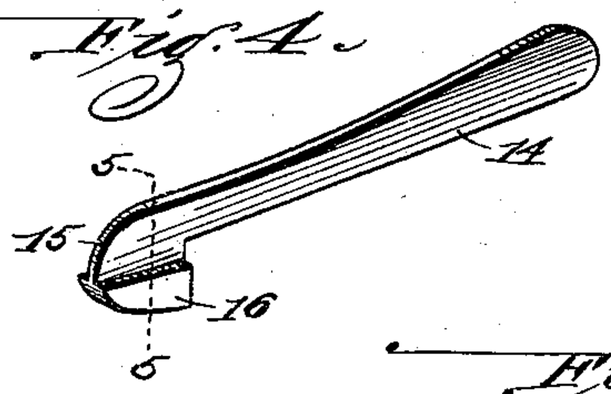


Fig. 5.

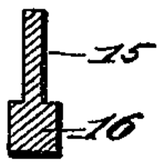
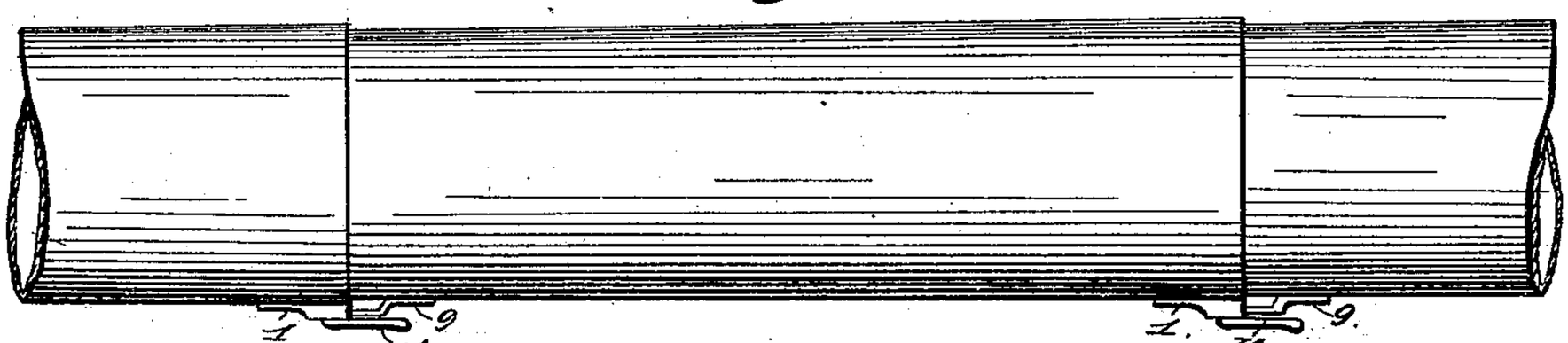


Fig. 6.



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UNITED STATES PATENT OFFICE.

GEORGE D. BATEMAN, OF PINCKNEYVILLE, ILLINOIS.

STOVEPIPE-COUPLING.

SPECIFICATION forming part of Letters Patent No. 556,174, dated March 10, 1896.

Application filed July 22, 1895. Serial No. 556,697. (No model.)

To all whom it may concern:

Be it known that I, GEORGE D. BATEMAN, of the city of Pinckneyville, Perry county, State of Illinois, have invented certain new and useful Improvements in Stovepipe-Couplings, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention relates to a stovepipe-coupling, and is an improvement on a stovepipe-coupling shown and described in my application, Serial No. 526,552, filed October 22, 1894; and it consists in the novel construction, combination and arrangement of parts hereinafter described and claimed.

In the drawings, Figure 1 is a view in perspective of my complete device. Fig. 2 is a longitudinal sectional view of my improved device, the same being in position upon the meeting ends of two lengths of stovepipe. Fig. 3 is a cross-sectional view taken approximately on the indicated line 3 3 of Fig. 1. Fig. 4 is a view in perspective of a lever of which I make use in carrying out my invention. Fig. 5 is an enlarged sectional view taken approximately on the indicated line 5 5 of Fig. 4. Fig. 6 is a side elevation showing the device in practical use upon the meeting ends of stovepipe-lengths.

Referring by numerals to the accompanying drawings, 1 indicates the body portion of a ratchet-plate of which I make use, the same being preferably cast in rectangular form and provided near one end with one or more apertures 2, suitable for the reception of rivets used in securing said plate upon the receiving end of a length of stovepipe. Formed integral with and extending upwardly from the side edges of the plate 1 are the walls 3, the same having outwardly-turned forward ends 4. On the face of the plate 1, between these side walls 3, is formed integral a series of teeth 5, between which are formed notches 6. Running longitudinally through the center of this series of teeth is a groove 7. The ratchet-plate 1 is necessarily transversely curved in order to fit the curved surface of the length of stovepipe on which it is located.

8 indicates the latch, comprising the base 9, having therein one or more rivet-holes 10, and formed integral with said base 9 but in a plane above the same is a spring-body 11, the outer end of which is constructed with a hook 12 of such a size as that it will engage in any one of the notches 6. Passing through the spring-body 11 adjacent said hook 12 is a slot 13.

14 indicates a lever, the same being provided with a head 15, a portion 16 of which is made considerably wider than is the body portion, and the same is also wider than the slot 13 in the spring-body 11. This lever 14 is so located as that the handle or body portion thereof extends along the outer face of the spring-body 11, while the head 15 passes through the slot 13 and the widened portion 16 of said head is located on the inner face of said spring-body.

When stovepipe-lengths have been properly fitted with the ratchet-plates 1 and latches, and said stovepipe-lengths are fitted together, the hooks 12 of the spring-bodies 11 will engage in the notches 6 between the teeth 5. When the hook is so engaged, the widened portion 16 of the head 15 lies directly in the groove or passage-way 7. As side walls 3 are formed on the plate 1, and as said side walls are such a distance apart as that the spring-body 11 will just enter between said sides, all lateral movement of the meeting ends of the stovepipe is entirely prevented, and as the body 11 is made of resilient material the hook 12 on the end thereof will always remain in engagement with one of the notches until it is desired to unfasten the device to separate the lengths of stovepipe.

It is intended that the couplings, as shown and described, be placed upon the under sides of the lengths of horizontally-arranged stovepipe, and when this is done it will readily be seen that although there be weight applied on the pipe said couplings will hold said pipe in a perfectly horizontal plane, and the ends thereof will be efficiently locked together.

When it is desired to separate lengths of stovepipe having my coupling applied thereto, the operator engages the end of the lever 14 and draws the same downwardly and into the position shown by dotted lines in Fig. 2. In so doing the squared edge of the widened portion 16 will engage against the inner face of the body 11 adjacent the slot 13, and the end of the head 15 acting as a cam against

the outer face of the plate 1 will draw the outer end of the body 11 downwardly into the position shown by dotted lines in Fig. 2, or sufficiently far to disengage the hook 12 from the notch 6 in which it has been located. The lengths of pipe may now be disengaged, and when so done the body 11 and lever 14 will resume their normal positions.

A pipe-coupling of my improved construction is extremely simple, durable, and inexpensive, is self-adjusting, may be easily manipulated while separating the lengths of stovepipe, and rivets, or suspending-wires ordinarily used in hanging and making connections in stovepipes are dispensed with.

I claim—

1. In a stovepipe-coupling, a ratchet-plate fixed upon the receiving end of a length of stovepipe, a spring-plate having a hooked end fixed upon the inserting end of the length of stovepipe, and a lever arranged in the spring-plate to disengage the hook on the end thereof from between the teeth of the ratchet-plate.

2. In a stovepipe-coupling, a spring-plate having a central slot 13, a hook at one end of said plate and the opposite end of said plate constructed to be fixed upon the inserting end of a length of stovepipe, a ratchet-plate constructed to be fixed upon the receiving end of a length of stovepipe, and a lever secured to the said spring-plate and adapted to pass through the said slot for the purpose of disengaging the hooked end of said spring-plate from said ratchet-plate, substantially as herein specified.

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

GEORGE D. BATEMAN.

Witnesses:
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