

(No Model.)

W. BIERMANN.
STOVEPIPE THIMBLE.

No. 528,139.

Patented Oct. 30, 1894.

FIG. 1.

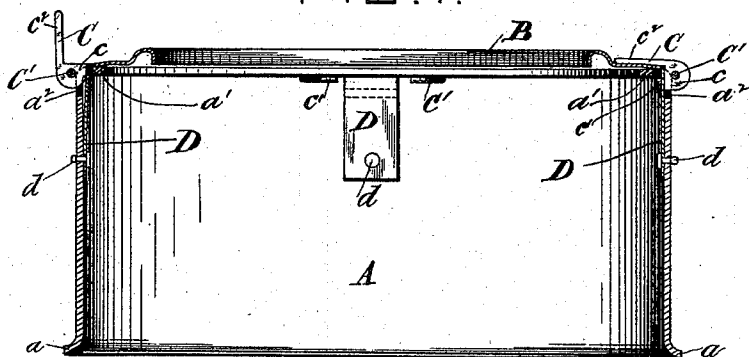
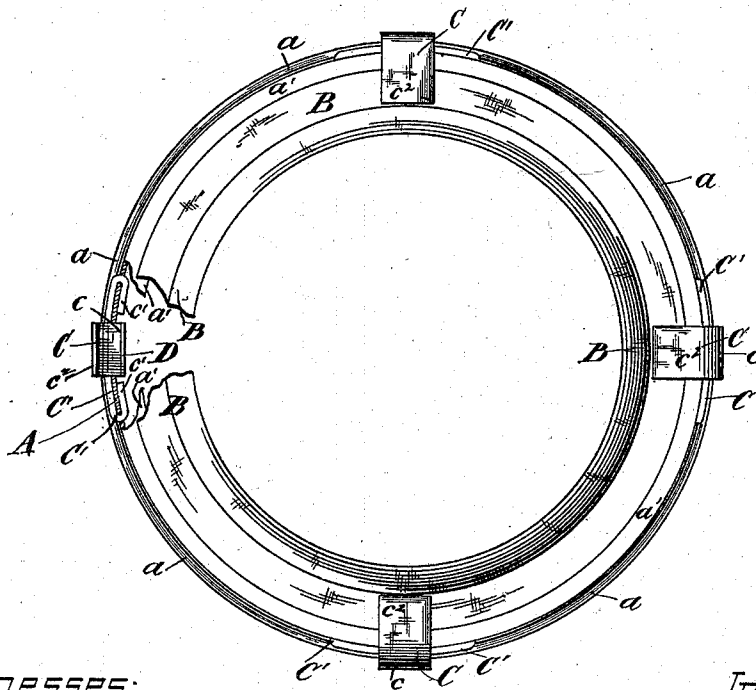


FIG. 2.



Witnesses:

Frank Davis
Emma Lyford

Inventor:

William Biemann
By his Attorney
Geo. J. Murray

UNITED STATES PATENT OFFICE

WILLIAM BIERMANN, OF CINCINNATI, OHIO.

STOVEPIPE-THIMBLE.

SPECIFICATION forming part of Letters Patent No. 528,139, dated October 30, 1894.

Application filed February 5, 1894. Serial No. 499,103. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM BIERMANN, a citizen of the United States, and a resident of Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Stovepipe-Thimbles, of which the following is a specification.

My invention is an improved stove pipe thimble. Its object is to provide a cheap and simple device which may be readily inserted in a flue opening and which is provided with easily operated fastenings to clamp and hold the stove pipe collar or cap, said collar being readily removed and replaced by a cap when the pipe is removed. Its objects I attain by the means illustrated in the accompanying drawings, in which like parts are indicated by similar reference letters wherever they occur throughout the various views, and in which—

Figure 1 is a diametrical section of a device embodying my improvements. Fig. 2 is a plan or front elevation of the same, with a portion of the parts broken away to expose the parts back of them.

The thimble A is a sheet metal cylinder having an outwardly turned flange, *a*, at its inner end to interlock with the mortar when the thimble is set for use and to hold it firmly in place. It has also an inwardly turned flange, *a'*, at its outer end to provide a seat for the outer rim of the collar B which may have its center opening of a size to fit the size of the pipe desired to be used.

The outer end of the thimble is slotted at *a*², the slots extending partly through the inturned flange *a'* to permit the enlarged or cam shaped ends, *c*, of the locking catches C, to play through said slots when turned to lock or release the collar. The catches, C, are journaled upon bearings C'. These bearings are preferably formed of short wire rods. The rods are first passed through the perforations in the enlarged ends of the catches. The opposite ends of the rods are then turned at substantially right angles to the body in the form of staples. The legs *c'* are passed through perforations in the wall of the thimble and then turned against the inside wall of the thimble to hold the bearings firmly in

place, as clearly shown on the left side of the plan or elevation view Fig. 2.

To the inside of the thimble A, are secured by rivets, *d*, flat metal springs D. The free ends of these springs project through the notches or slots in the inturned flange *a'* of the thimble and bear against the enlarged ends of the catches C. It will be seen that when these catches are thrown to the locking position, as shown at the right hand side of Fig. 1, the springs bear against the flat cam faces of the catches and press the arms *c*² firmly upon the rim of the collar B and hold it with sufficient pressure upon its seat (the inturned flange *a'*) to make a close joint.

Instead of the outwardly turned flange *a*, any external projection from the body A may be employed to accomplish the same result, and it is obvious that there may be other merely mechanical changes made in the structure without departing from the spirit or scope of my invention.

I have shown what I believe to be the best form of embodying my invention and, without limiting myself to the specific details of construction shown,

What I claim, and desire to secure by Letters Patent, is—

1. In a stove pipe thimble, the combination of the cylinder having an inturned flange at its outer end and the outer end slotted, bearings secured to the thimble and crossing said slots, a collar to rest upon the inturned flange of the thimble, catches journaled upon said bearings, having a long arm adapted to overlap the edge of the collar, and springs secured to the thimble to hold said catches in the locked position, substantially as shown and described.

2. The combination of the thimble A having inturned flange *a'*, said inturned flange and the outer end of the thimble being slotted, the collar seated upon the inturned flange, the catch bearings secured to the thimble, the catches having cam ends journaled upon said bearings opposite said slots, and the springs secured to the inside of the thimble, and pressing upon said cam ends, substantially as set forth.

3. The combination of the cylinder A hav-

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ing inturned flange a' , and slotted at a^2 , the
springs D secured to the inside of the thim-
ble and having their free ends projecting op-
posite said slots, the bearings C' secured to
5 the thimble across the slots, the latches C
having cam ends, c , journaled on said bear-
ings and having their cam ends bearing
against said springs, and the collar B resting

upon the inturned flange a' and removably
confined to said flange by said latches, sub- ro
stantially as shown and described.

WILLIAM BIERMANN.

Witnesses:

EMMA LYFORD,
GEO. J. MURRAY.