

No. 864,980.

PATENTED SEPT. 3, 1907.

C. T. McCARROLL.
STOVEPIPE THIMBLE.
APPLICATION FILED APR. 23, 1906.

Fig. 1.

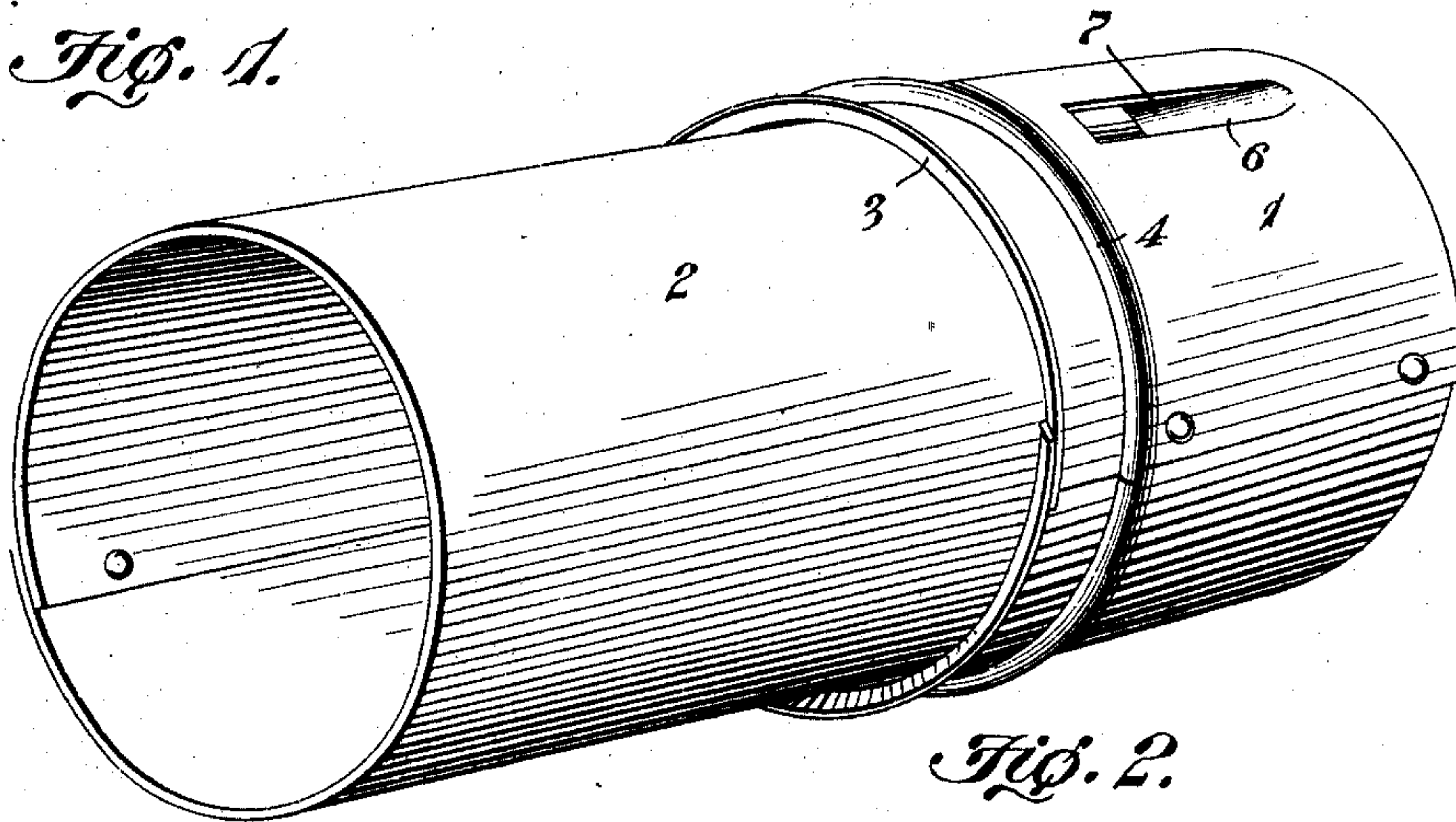


Fig. 2.

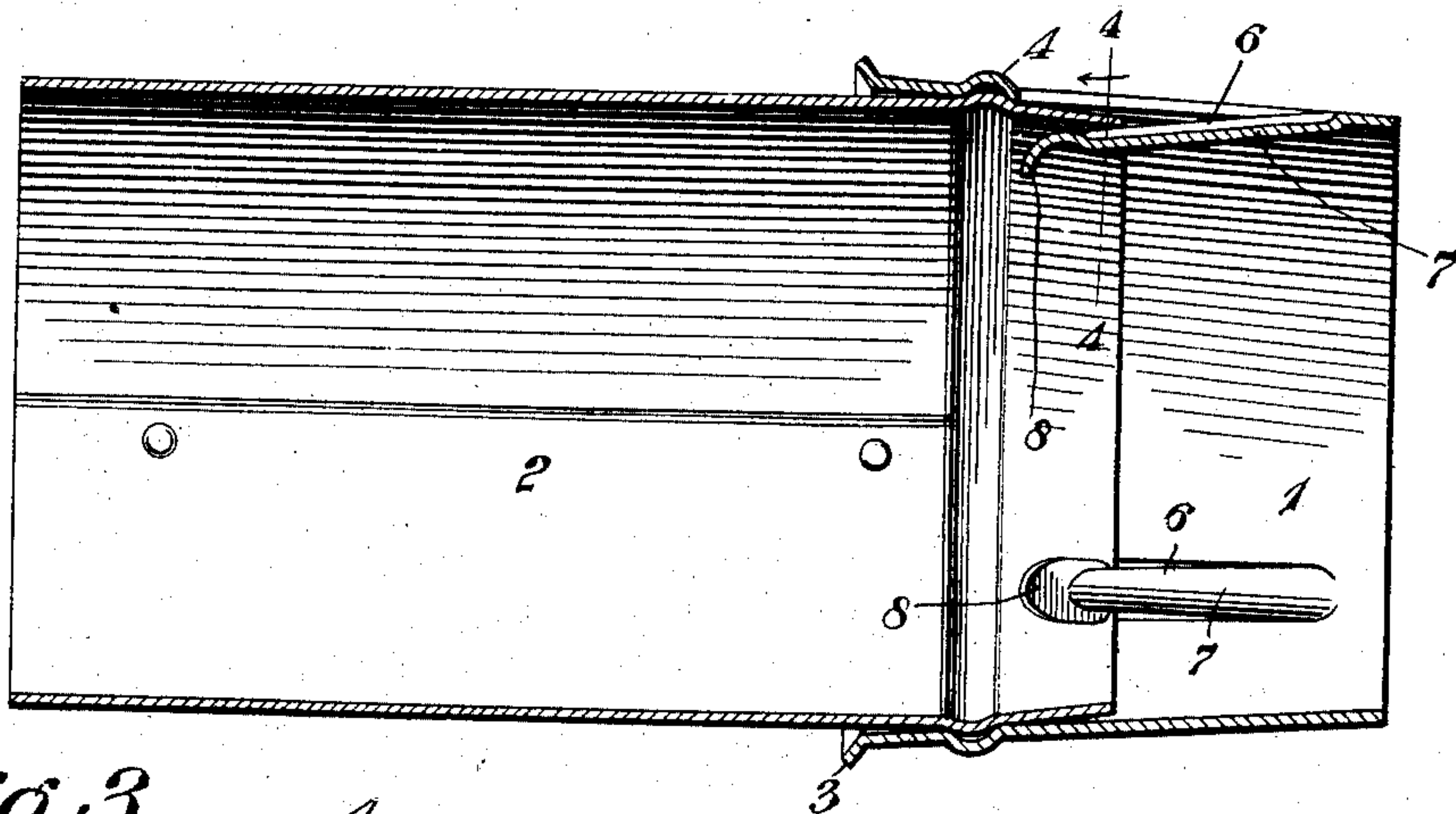


Fig. 3.

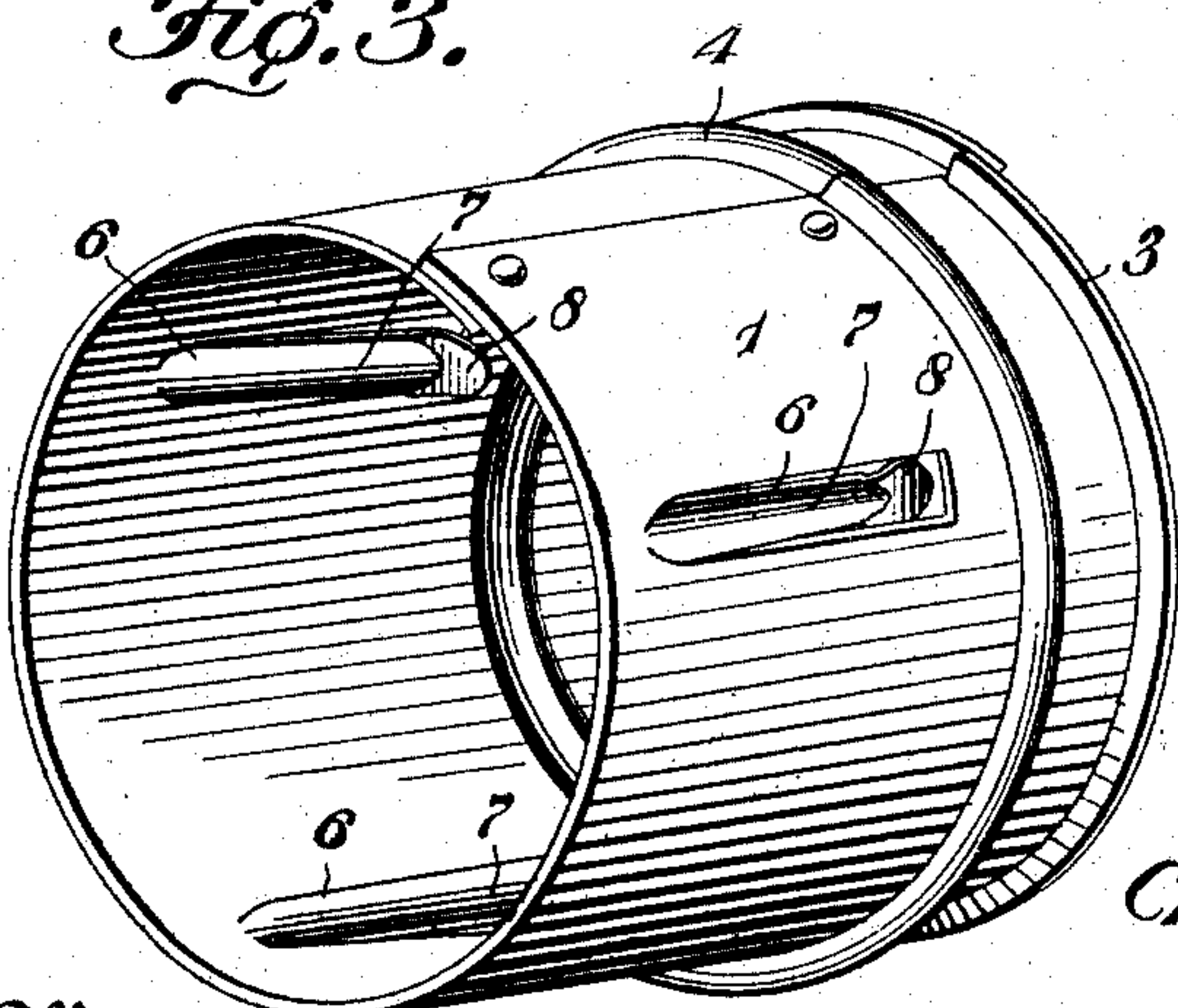
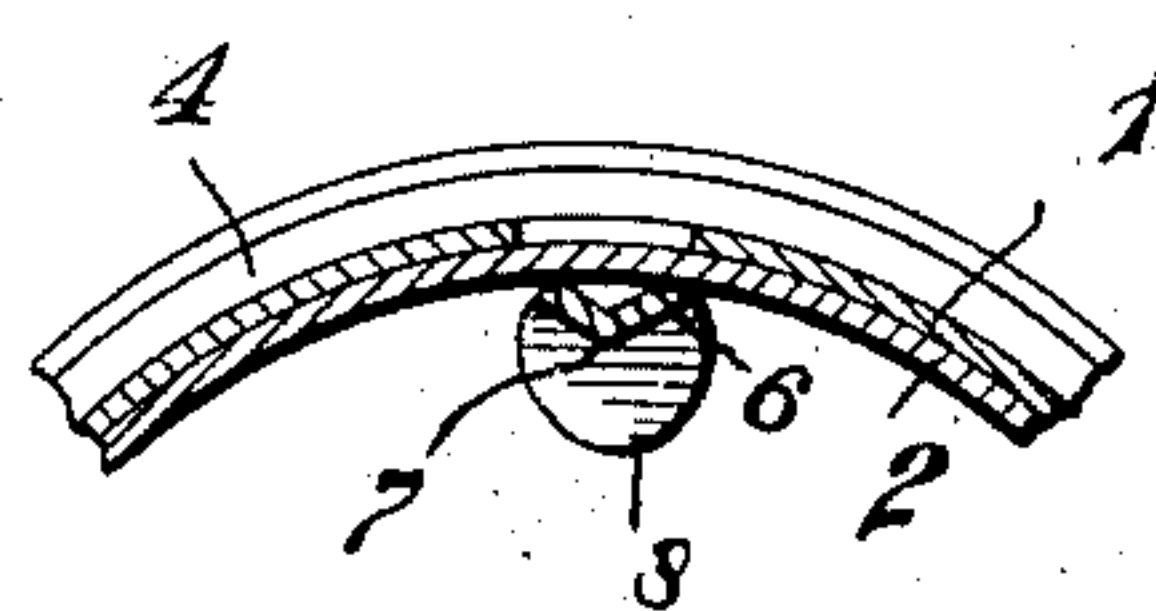


Fig. 4.



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UNITED STATES PATENT OFFICE.

CHARLES T. MCCARROLL, OF OTTUMWA, IOWA.

STOVEPIPE-THIMBLE.

No. 864,980.

Specification of Letters Patent.

Patented Sept. 3, 1907.

Application filed April 23, 1906. Serial No. 313,235.

To all whom it may concern:

Be it known that I, CHARLES T. MCCARROLL, a citizen of the United States, residing at Ottumwa, in the county of Wapello and State of Iowa, have invented a new and useful Stovepipe-Thimble, of which the following is a specification.

The invention relates to improvements in stove pipe thimbles.

The object of the present invention is to improve the construction of stove pipe thimbles, and to provide a simple and inexpensive thimble adapted to prevent soot from blowing into a room and capable also of preventing a stove pipe from being pushed too far into a stove pipe hole, and thereby interfering with the draft through a chimney or flue.

A further object of the invention is to provide a thimble for stove pipe holes adapted to be embedded in the mortar and capable of securely holding a stove pipe when either end of the same is placed within it.

Another object of the invention is to provide a stove pipe thimble, having means for positively engaging and clamping either end of a stove pipe, and capable of being compactly nested either on the shelves of a store, or for shipment.

With these and other objects in view, the invention consists in the construction and novel combination of parts, hereinafter fully described, illustrated in the accompanying drawing, and pointed out in the claims hereto appended; it being understood that various changes in the form, proportion, size and minor details of construction, within the scope of the claims, may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawing:—Figure 1 is a perspective view of a portion of a stove pipe and a thimble constructed in accordance with this invention. Fig. 2 is a longitudinal sectional view of the same. Fig. 3 is a perspective view of the thimble. Fig. 4 is a detail sectional view on the line 4—4 of Fig. 2.

Like numerals of reference designate corresponding parts throughout the several figures of the drawing.

1 designates a stove pipe thimble, designed to be arranged in a stove pipe opening of a chimney or flue with its outer end flush with the wall, and constructed of suitable sheet metal. The thimble is tapered inwardly, the outer or large end being adapted to receive either end of a stove pipe 2. The outer or large end of the thimble has its edge bent outwardly at an angle to provide a projecting annular flange 3, and the sheet metal of the thimble is also bent outwardly or grooved at the inner face to provide one or more exteriorly projecting annular beads 4. The projecting bead or beads 4 are adapted to be embedded in the mortar of a chimney or flue, whereby the thimble is rigidly held in the stove pipe opening after the mortar has set.

The thimble is provided on its interior with a plu-

rality of clamping tongues 6, which extend longitudinally of the thimble and which are adapted to engage and clamp the stove pipe 2. In manufacturing the thimble, the cheapest way to make the tongues, is to cut the same from the thimble by partially severing the metal. But, if desired, separate strips or pieces can be riveted, or otherwise secured to the thimble without affecting the result. The tongues 6, which are arranged at an acute angle to the contiguous portions of the thimble, are substantially oblong, and are provided with longitudinal stiffening beads 7, terminating short of the free ends of the tongues and preferably formed by grooving the tongues, and adapted to stiffen the same and providing two bearing edges for engaging the inner face of the stove pipe, as clearly illustrated in Fig. 4 of the drawing, to enable the tongues to engage and firmly grip either end of the stove pipe. The clamping tongues form between them and the thimble, tapering spaces, which have their large open ends facing the outer end of the thimble. The free ends 8 of the tongue are bent slightly at an angle to form guide portions for directing the stove pipe into engagement with the tongues. The stiffening beads or ribs of the tongues may be formed in any other desired manner to prevent the tongues from bending at an intermediate point, and any desired number of tongues may be provided.

It will be seen that the thimble is exceedingly simple and inexpensive in construction, that it costs very little more than an ordinary thimble and that the clamping means for engaging a stove pipe would not interfere with the nesting of the thimbles. By nesting the thimbles, their shape is preserved, and they occupy less space on the shelves of a store, and the freight or cost of shipping the thimbles is materially reduced.

The clamping tongues are adapted to grip either the crimped or uncrimped end of a stove pipe, and when the parts are assembled there will be no liability of soot being blown into the room or apartment. It will also be seen that the longitudinal bead or rib of the clamping tongue provides the necessary stiffness and rigidity to enable the tongue to grip and securely clamp the stove pipe.

The stove pipe does not have to be wired to retain it in engagement with the thimble, and a pipe collar is unnecessary except for ornamentation, as the stove pipe snugly fits the thimble, and there is no danger of air entering the stove pipe hole at the outer end thereof.

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

1. The combination with a stove pipe, of a stove pipe thimble provided with a clamping tongue extending longitudinally of the thimble and having means for stiffening it, said tongue being arranged at an acute angle to the thimble and forming an intervening tapering space, which has its large end facing the outer end of the thimble, said

stove pipe being wedged in the tapering space between the outer face of the tongue and the inner face of the thimble.

2. The combination with a stove pipe, of a stove pipe thimble provided with a clamping tongue grooved longitudinally to form a stiffening bead and to provide two bearing edges for engaging the inner face of the stove pipe, said tongue being arranged at an acute angle to the thimble to form an intervening tapering space in which the stove pipe is wedged.
3. The combination with a stove pipe, of a stove pipe thimble provided with an integral clamping tongue formed by slitting the sheet metal and bending the partially severed portion inwardly, said tongue being grooved longitudinally to provide a stiffening bead and arranged at an acute angle to the inner face of the thimble to form an intervening tapering space in which the stove pipe is wedged.
4. A device of the class described, provided with an angularly disposed clamping tongue having a stiffening

rib or bead formed by grooving or bending the tongue longitudinally, the outer end of the tongue being bent at an angle to form a guide.

5. A stove pipe thimble provided with an interiorly arranged clamping tongue connected at one end to the stove pipe thimble and arranged at an acute angle to the inner face of the same to provide an intervening tapering space, said tongue being grooved longitudinally to form a stiffening bead, which terminates short of the free end of the tongue, and the said free end being deflected for guiding a stove pipe into the tapering space between the tongue and the inner face of the thimble.

In testimony, that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

CHARLES T. MCCARROLL.

Witnesses:

JOHN H. SPRY,
W. H. H. ASBURY.