

(No Model.)

C. F. TEW.

THIMBLE OR COLLAR FOR STEAM OR OTHER PIPES.

No. 463,781.

Patented Nov. 24, 1891.

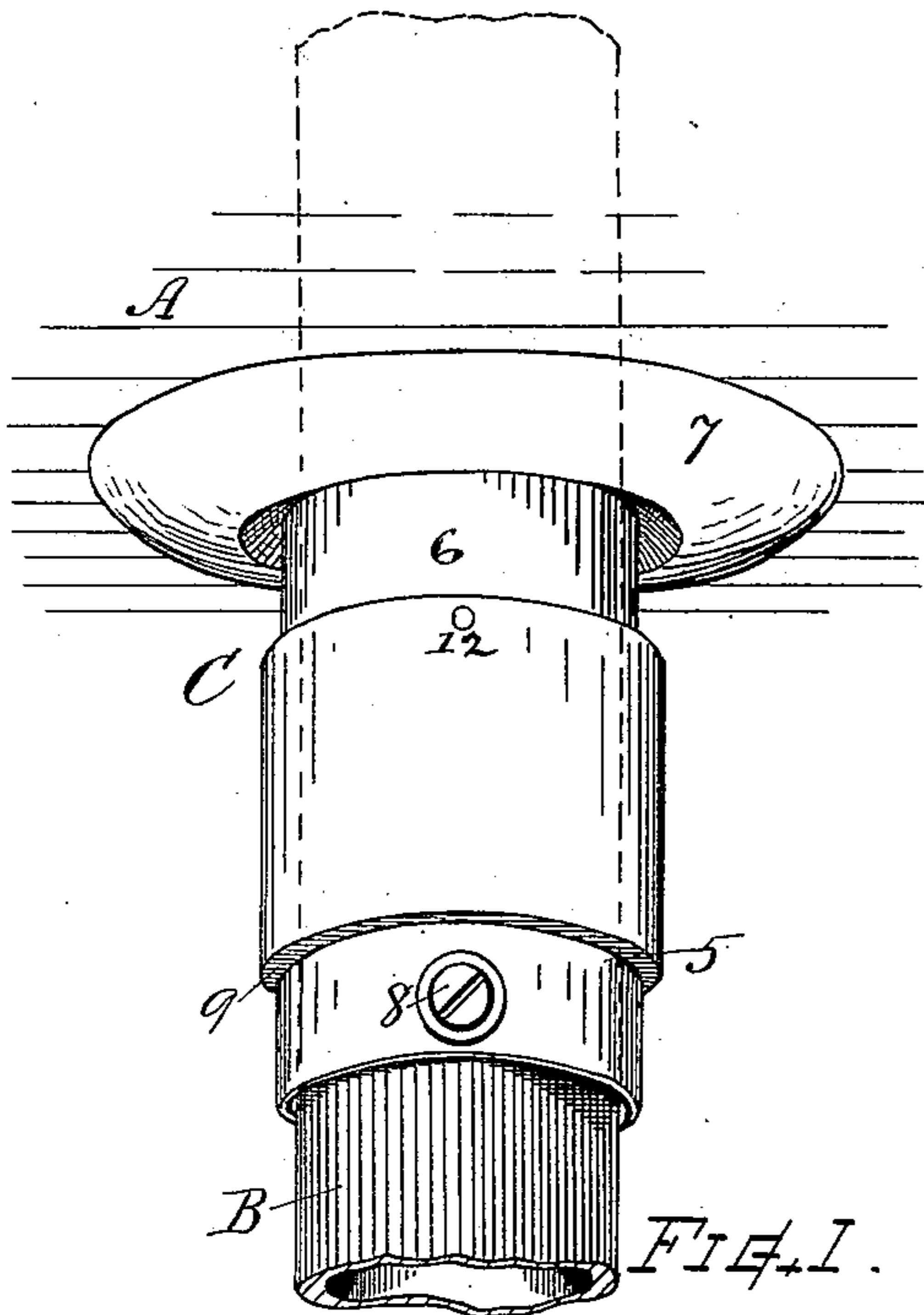


FIG. 1.

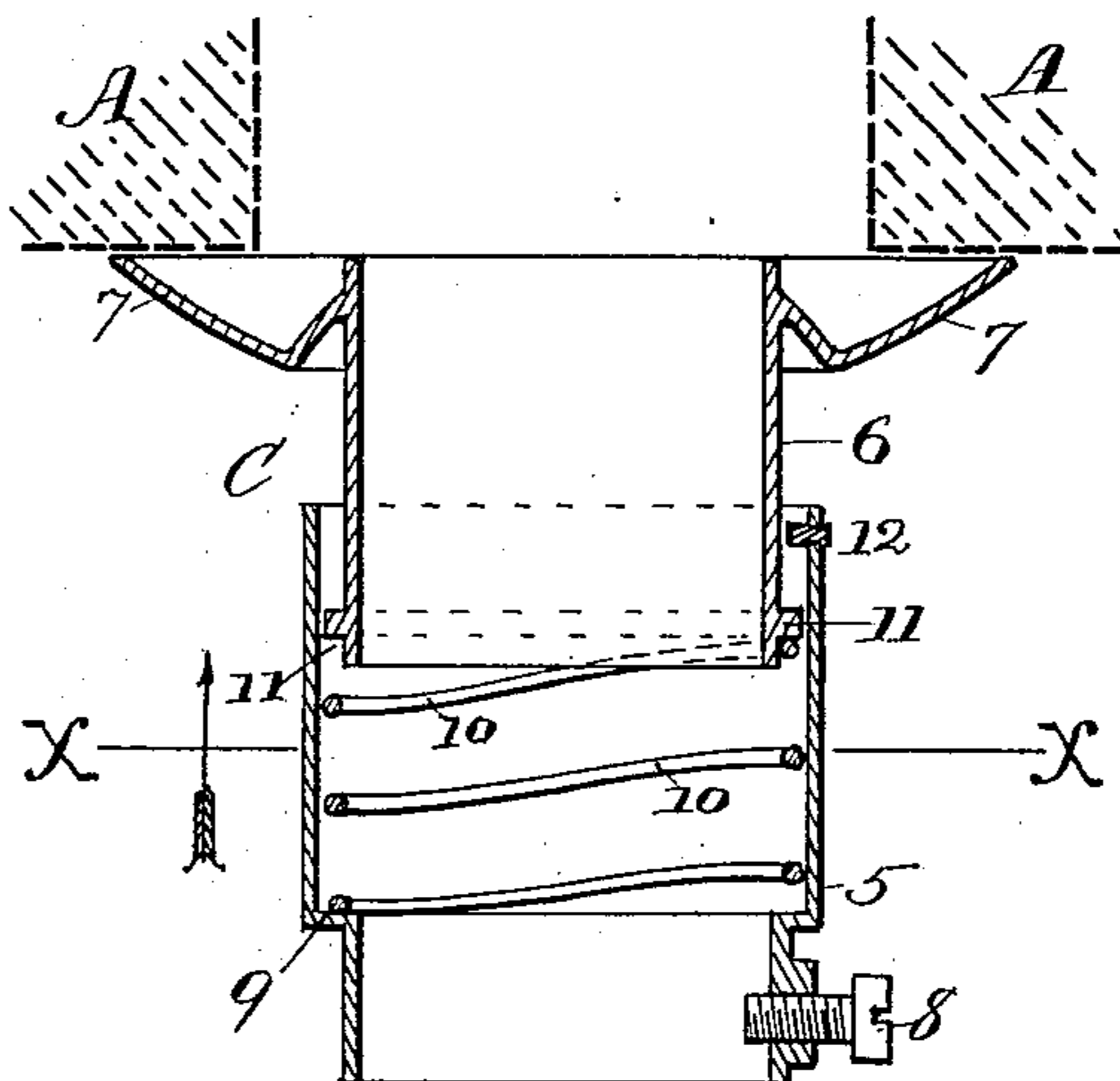


FIG. 2.

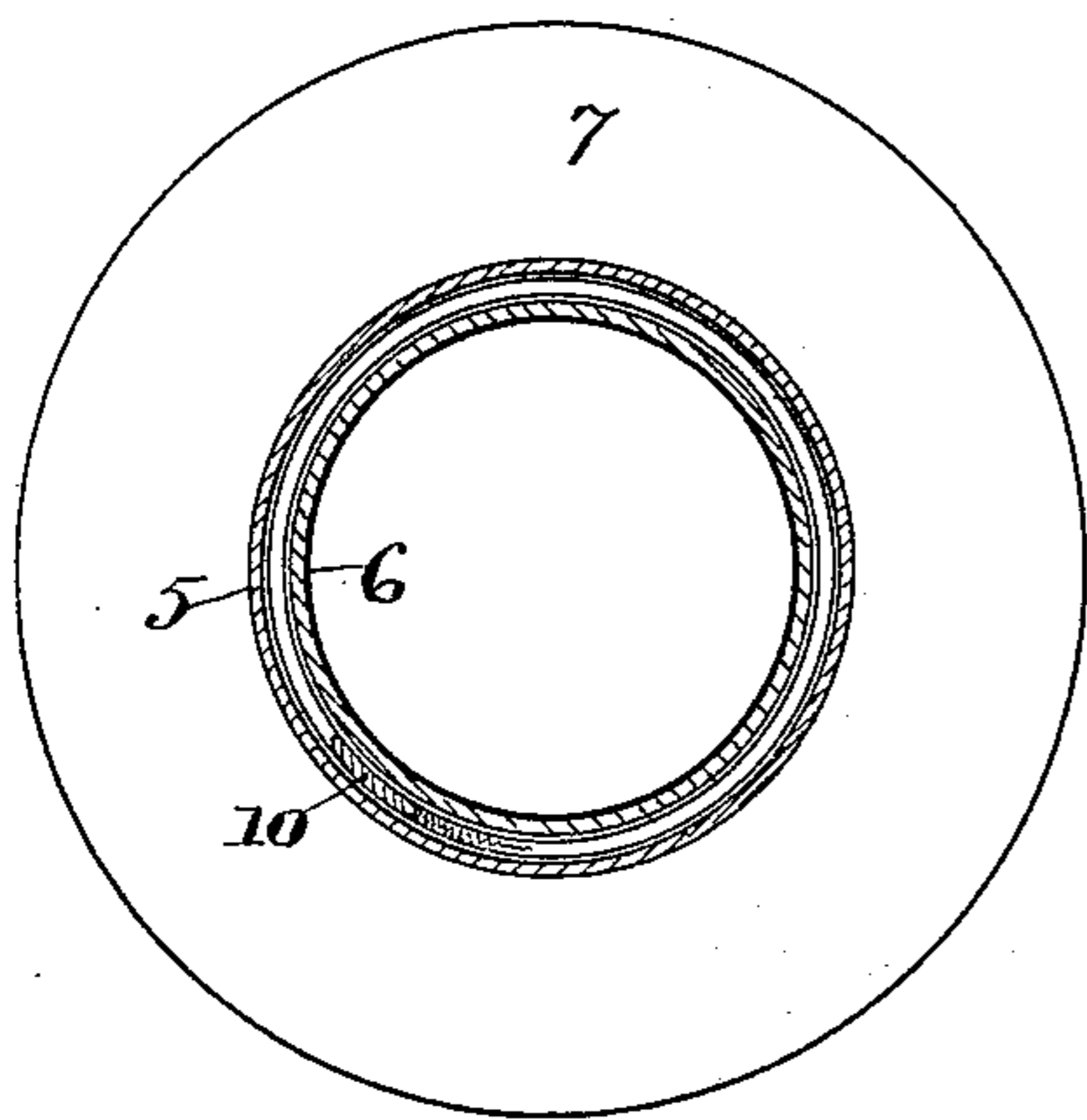


FIG. 3.

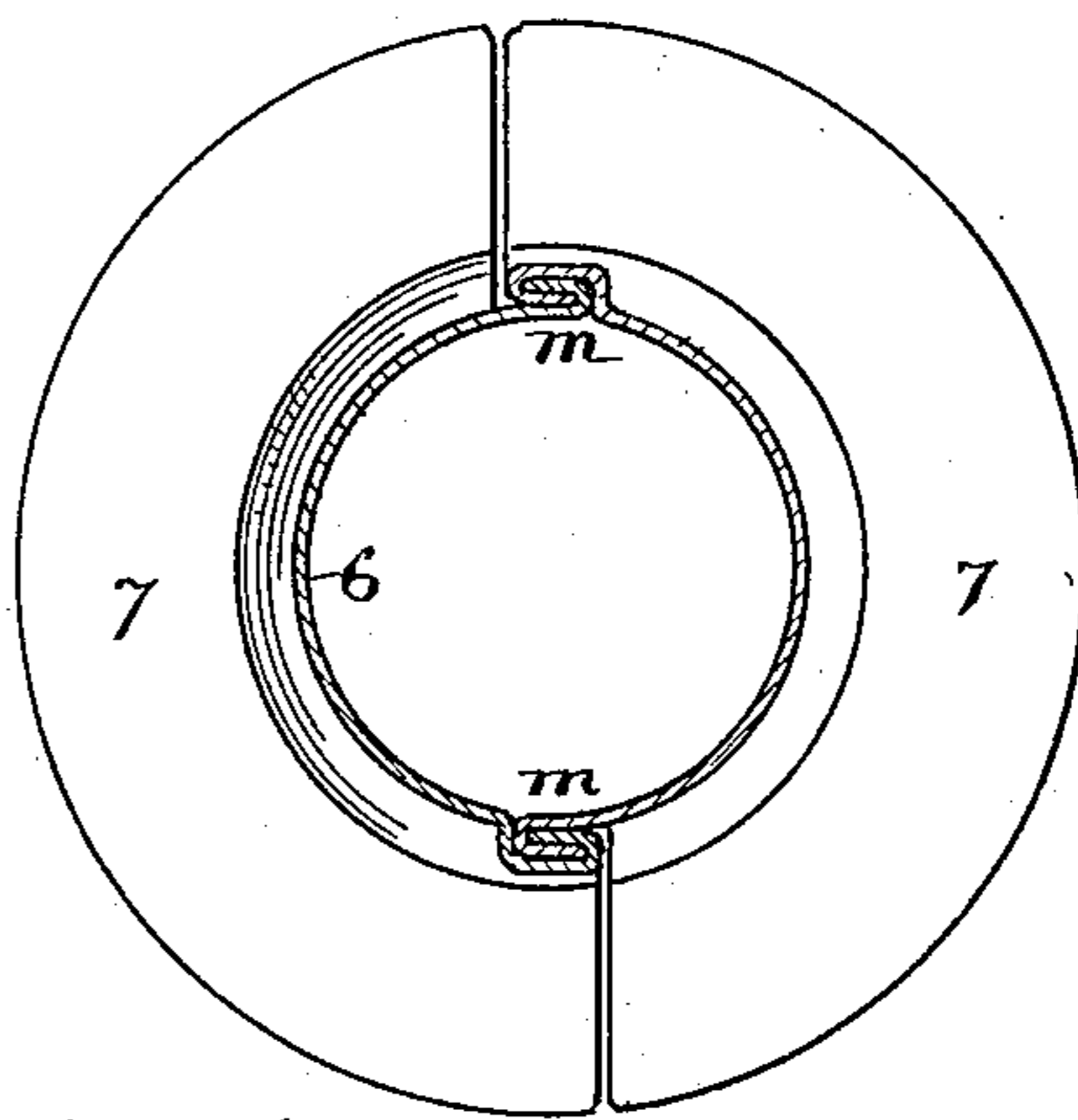


FIG. 4.

Witnesses.

Ella P. Blinn.  
Simon E. King

Inventor

Charles H. Tew  
By Charles H. Puleigh  
His Attorney

# UNITED STATES PATENT OFFICE.

CHARLES F. TEW, OF WORCESTER, MASSACHUSETTS.

## THIMBLE OR COLLAR FOR STEAM OR OTHER PIPES.

SPECIFICATION forming part of Letters Patent No. 463,781, dated November 24, 1891.

Application filed February 19, 1891. Serial No. 382,074. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES F. TEW, a citizen of the United States, residing at Worcester, in the county of Worcester and State of Massachusetts, have invented a new and useful Thimble or Collar for Steam or other Pipes, of which the following, together with the accompanying drawings, is a specification sufficiently full, clear, and exact to enable persons skilled in the art to which this invention appertains to make and use the same.

The object of my present invention is to provide a thimble or collar for making the finish around steam-heating or other pipes where they pass through ceilings, floors, or walls, which thimble or collar is adapted to be supported upon the pipe and provided with a flanged portion that fits against the ceiling closely without being fastened thereto and which is arranged for yielding, so that the flange will not be drawn away or forced into the ceiling by the contraction and expansion of the steam-pipe, but in which the flange will retain its position on the ceiling without injury to the same. These objects I attain by the collar or pipe-thimble herein shown and described, the particular subject-matter claimed being hereinafter definitely specified.

In the drawings, Figure 1 is a perspective view of my improved finish-collar for steam-pipes. Fig. 2 is a vertical section of the same. Fig. 3 is a transverse section at line  $x x$ , Fig. 2; and Fig. 4 shows a modification whereby the collar can be made separable longitudinally in halves.

My improved thimble or collar consists of a hub or cylindrical portion adapted to be secured upon the steam-pipe by a set-screw or in other equivalent manner and a tube or part having the annular finish-flange fixed thereon, which part is confined to said hub in a manner to have longitudinal movement or to telescope with said hub, and a spring is combined therewith to press the tube and flange upward against the ceiling or wall surface and afford a yielding action between the parts, while the hub is fixed to the pipe.

In referring to parts, A denotes the ceiling, and B the steam-pipe, which passes through an opening in the ceiling.

C denotes the thimble or collar, which is composed of the hub or cylindrical portion 5

and the telescoping tube or part 6, carrying the laterally-extended annular ceiling-flange 7, that covers the opening in the ceiling. The hub is provided with a fastener or set-screw 8, by which it can be secured or firmly attached to the steam-pipe B, and it is also fitted with a chamber and a shoulder 9 for containing and supporting the spring 10, which is preferably of coiled wire. The telescoping tube 6 is provided with a shoulder or flange 11, that engages the spring which is interposed between the parts and exerts its force in such manner that the tube 6, with the flange 7, is pressed upward with a yielding force. A stop lug or pin 12 is inserted in the end of the hub-cylinder to prevent the escape of the movable part therefrom.

The collar is put onto the steam-pipe with the flange 7 resting against the ceiling A, and, with the spring 10 partially compressed, the hub is fastened to the pipe by its screw 8, sufficient space being left between the flange and top end of the hub to allow the full expansion of the steam-pipe when heated. The flange will thus be held against the surface of the ceiling by the yielding pressure, the action of the spring 10 keeping it in position irrespective of the contraction and expansion of the pipe, thus obviating any necessity of fastening the flange to the ceiling and also avoiding any liability of the ceiling being broken or damaged around the opening or the tearing out of fastening devices by the action of the pipe due to the expansion and contraction as the pipes are heated and cooled.

If in any instance it is desired to have collars that can be put onto the pipes after the pipes have been connected for service, then these collars or thimbles can be made separated or in halves, with interlocking joints  $m$  at their sides, to be put together by sliding the joints longitudinally into each other, as indicated in Fig. 4. In this latter construction the spring, instead of being a complete coil, can be made in two parts or so as to press at opposite sides of the movable portion or flange-carrying tube.

I am aware that collars of different kinds have been heretofore made divided in halves, and I do not therefore claim the feature of a divided collar, broadly, as an essential part of my invention.

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

1. A finishing-collar for steam-heating or other pipes, composed of a hub or part having means for securing it to the pipe, a tube or part telescoping therewith and carrying the laterally-extended ceiling-flange, and a spring disposed between the parts that sustains said flange from the hub and affords a yielding support therefor, substantially as and for the purpose set forth.

2. The combination, with the steam-pipe B, of the cylindrical hub 5, having the set-screw 8 fitted therein, the tube 6, telescoping with

said hub and carrying the ceiling-flange 7, and the spring 10, arranged within the hub and engaging with shoulders 9 and 11, formed on the hub and tube, respectively, for supporting said flange against the ceiling and affording a yielding action, substantially as and for the purpose set forth.

Witness my hand this 17th day of February, A. D. 1891.

CHARLES F. TEW.

Witnesses:

CHAS. H. BURLEIGH,  
ELLA P. BLENUS.