

No. 838,593.

PATENTED DEC. 18, 1906.

A. SPEIRS.
PIPE COVER AND ASH RETAINER.

APPLICATION FILED APR. 19, 1906.

Fig. 1.

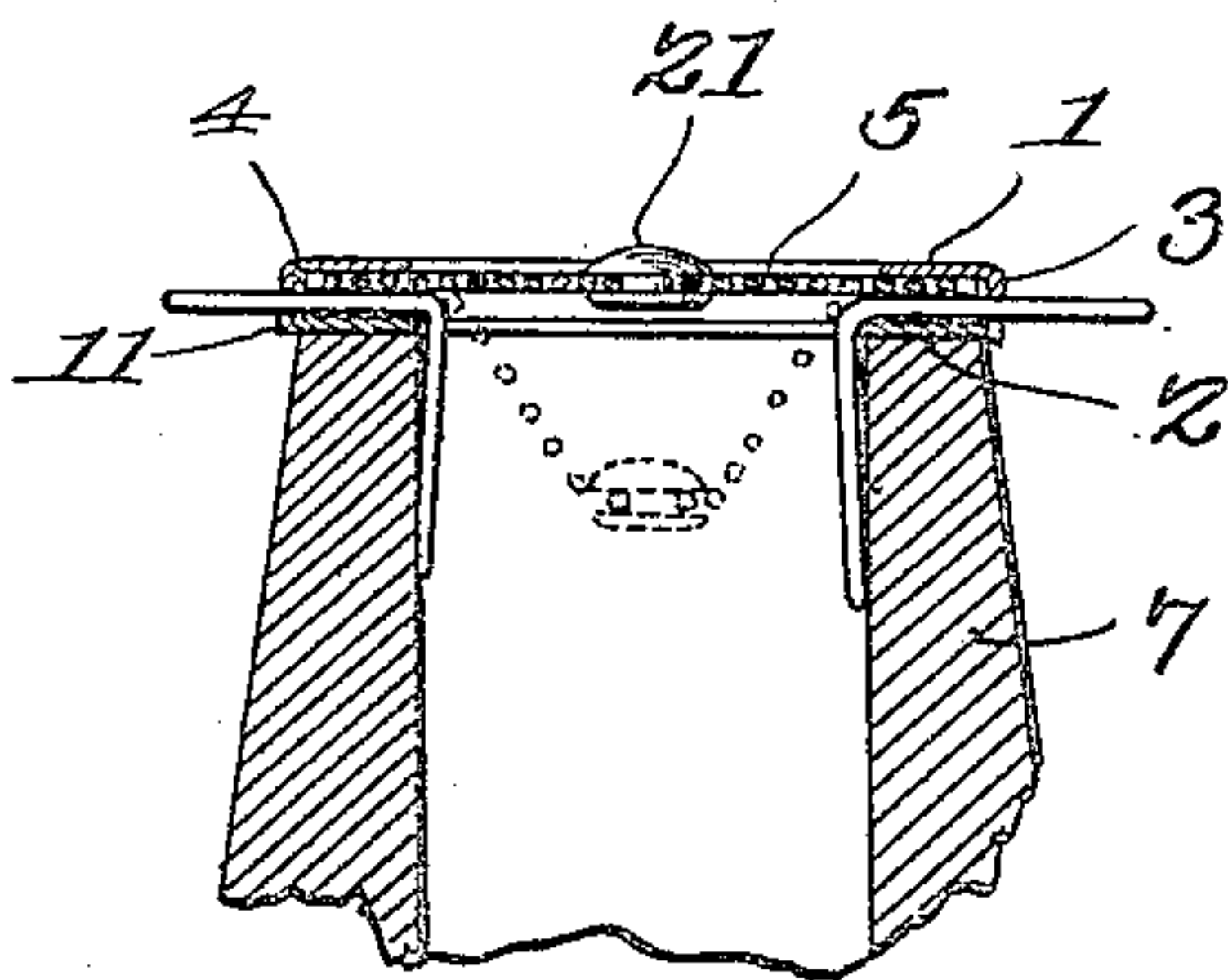


Fig. 5.

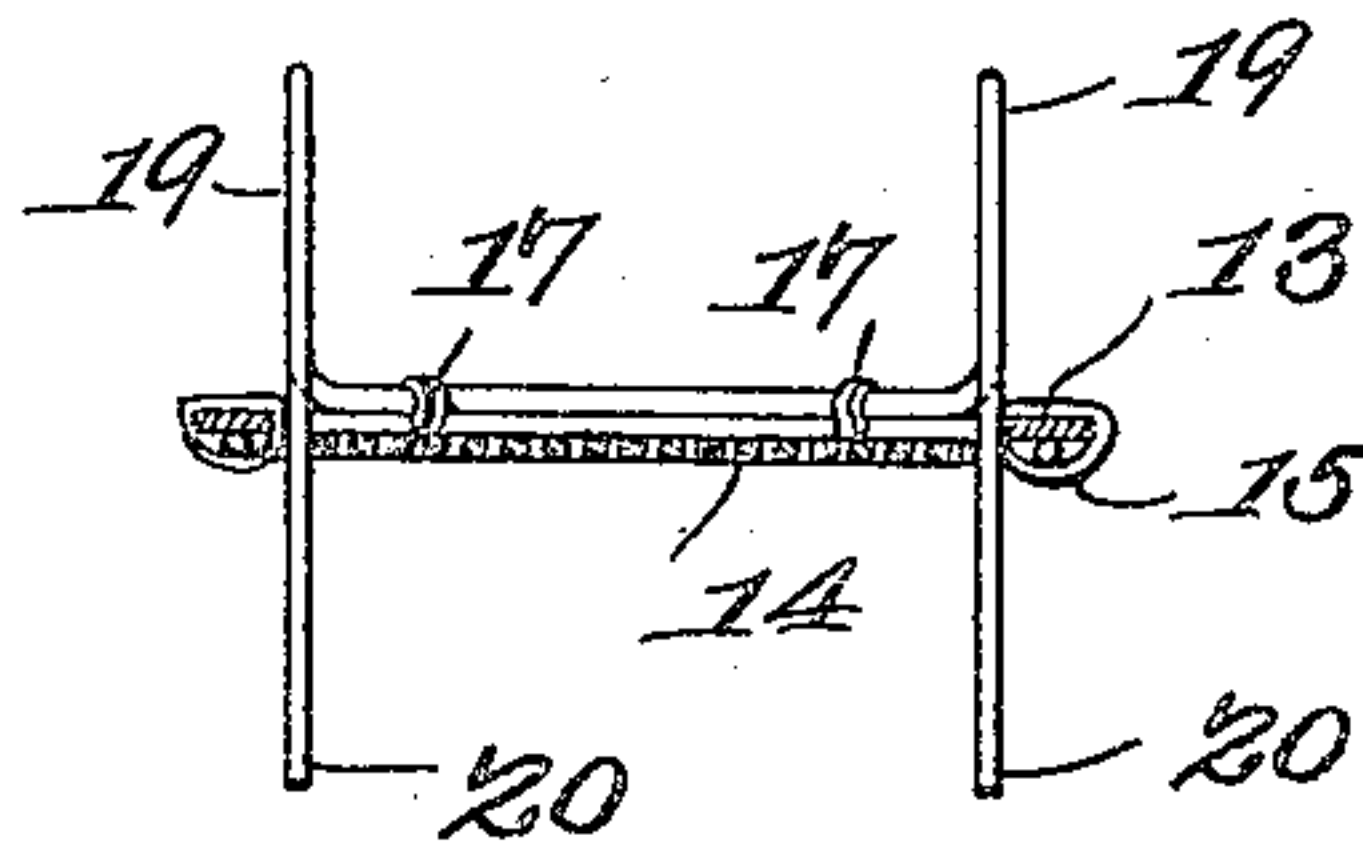


Fig. 2.

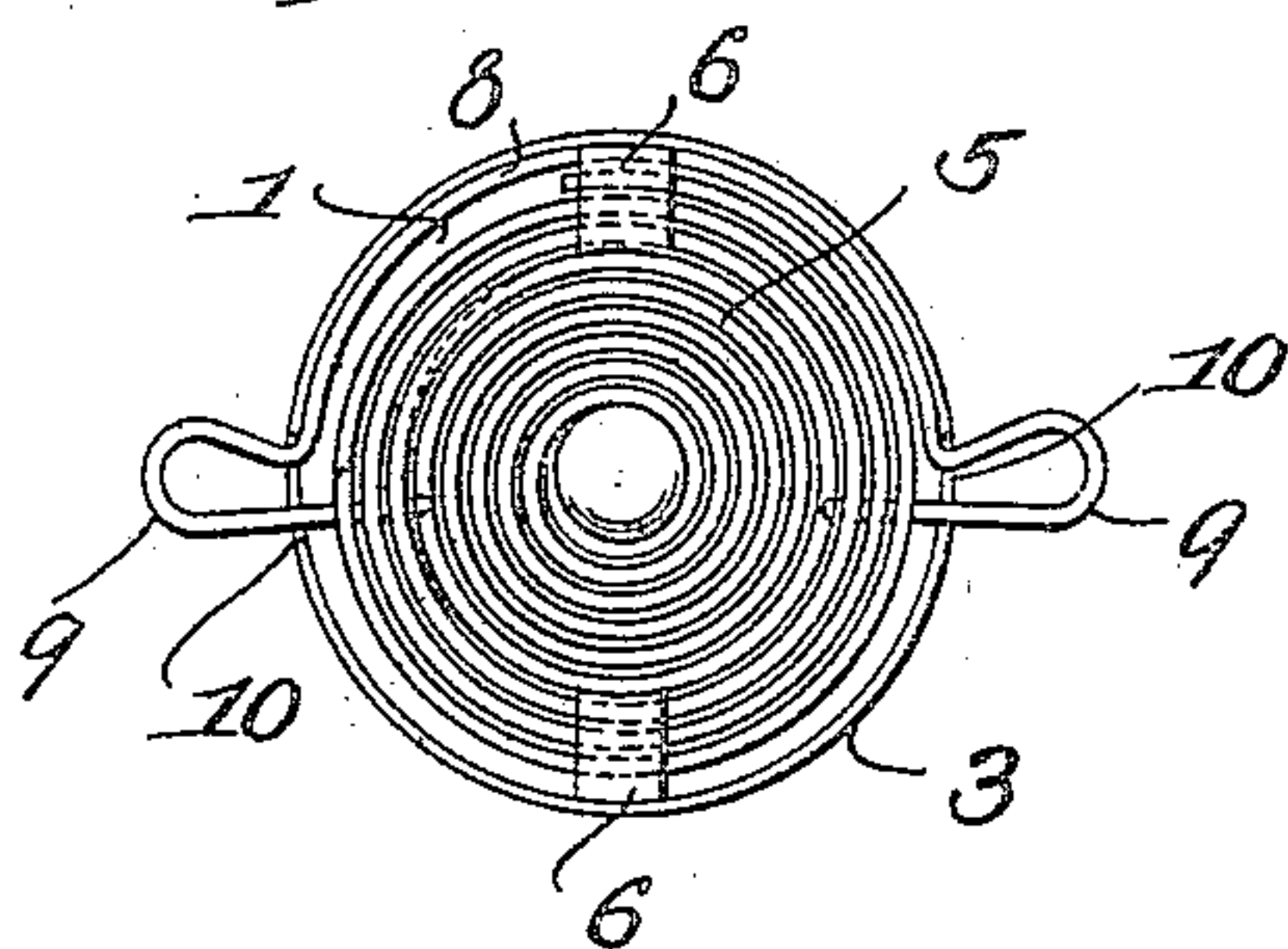


Fig. 4.

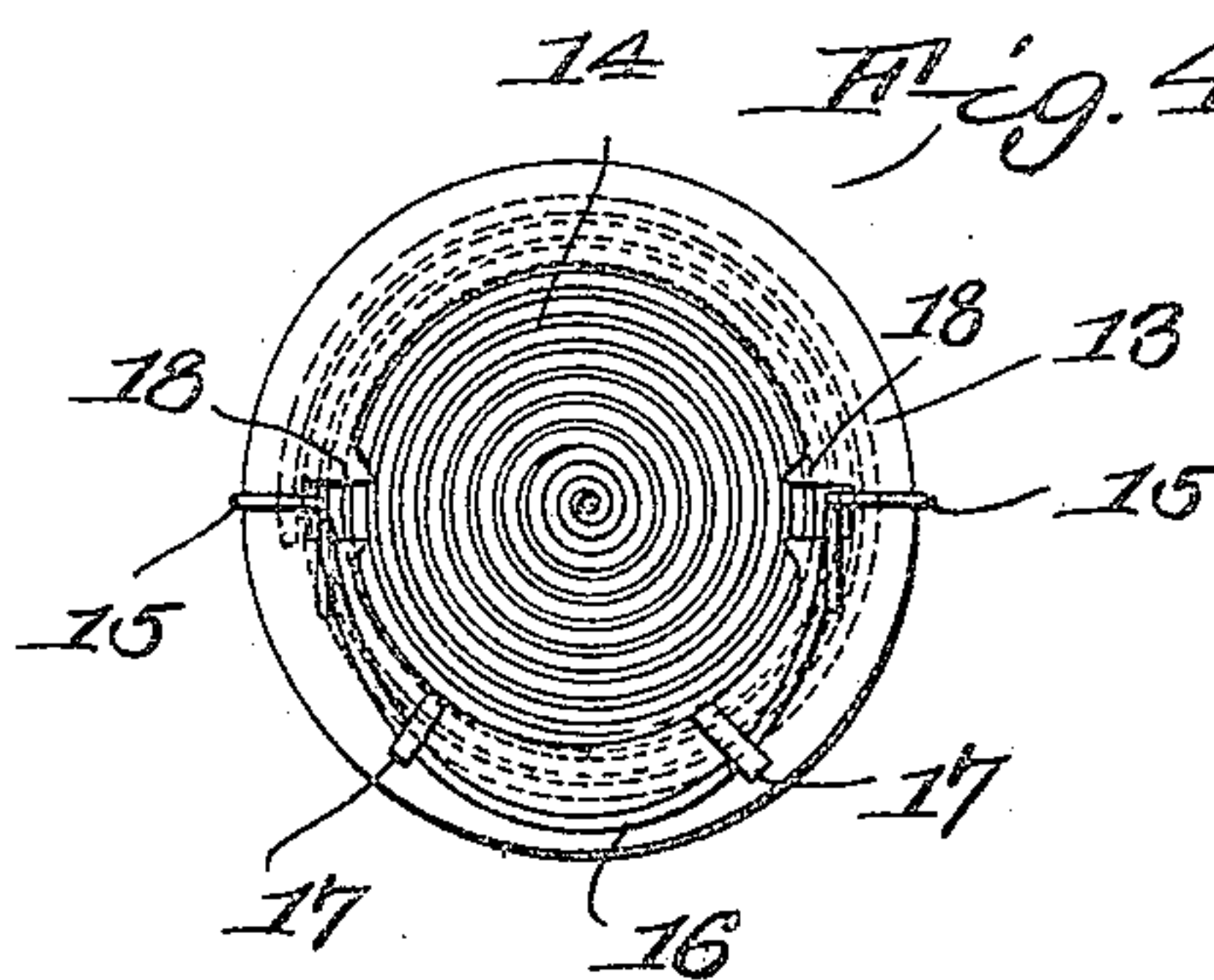


Fig. 3.

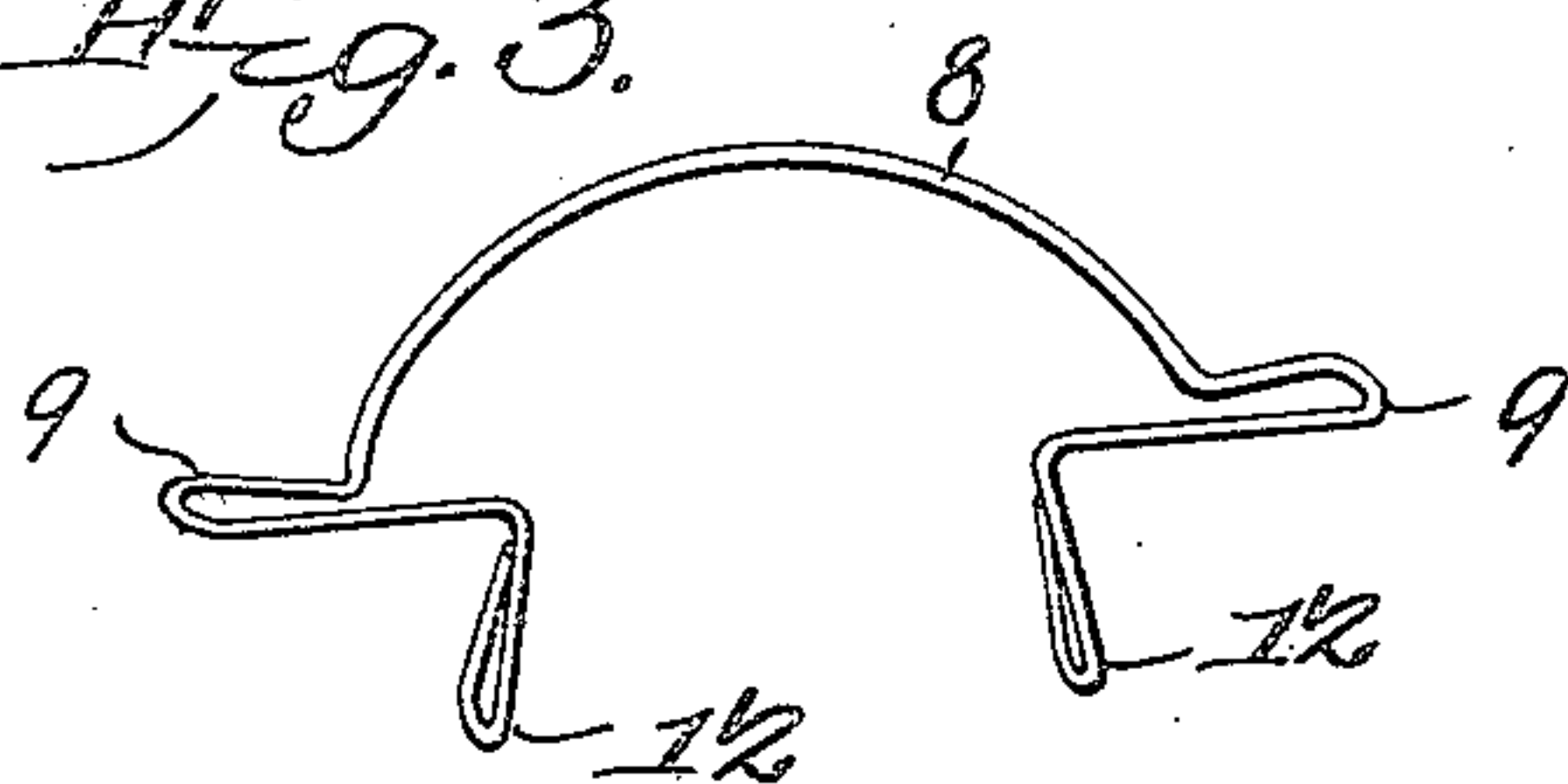
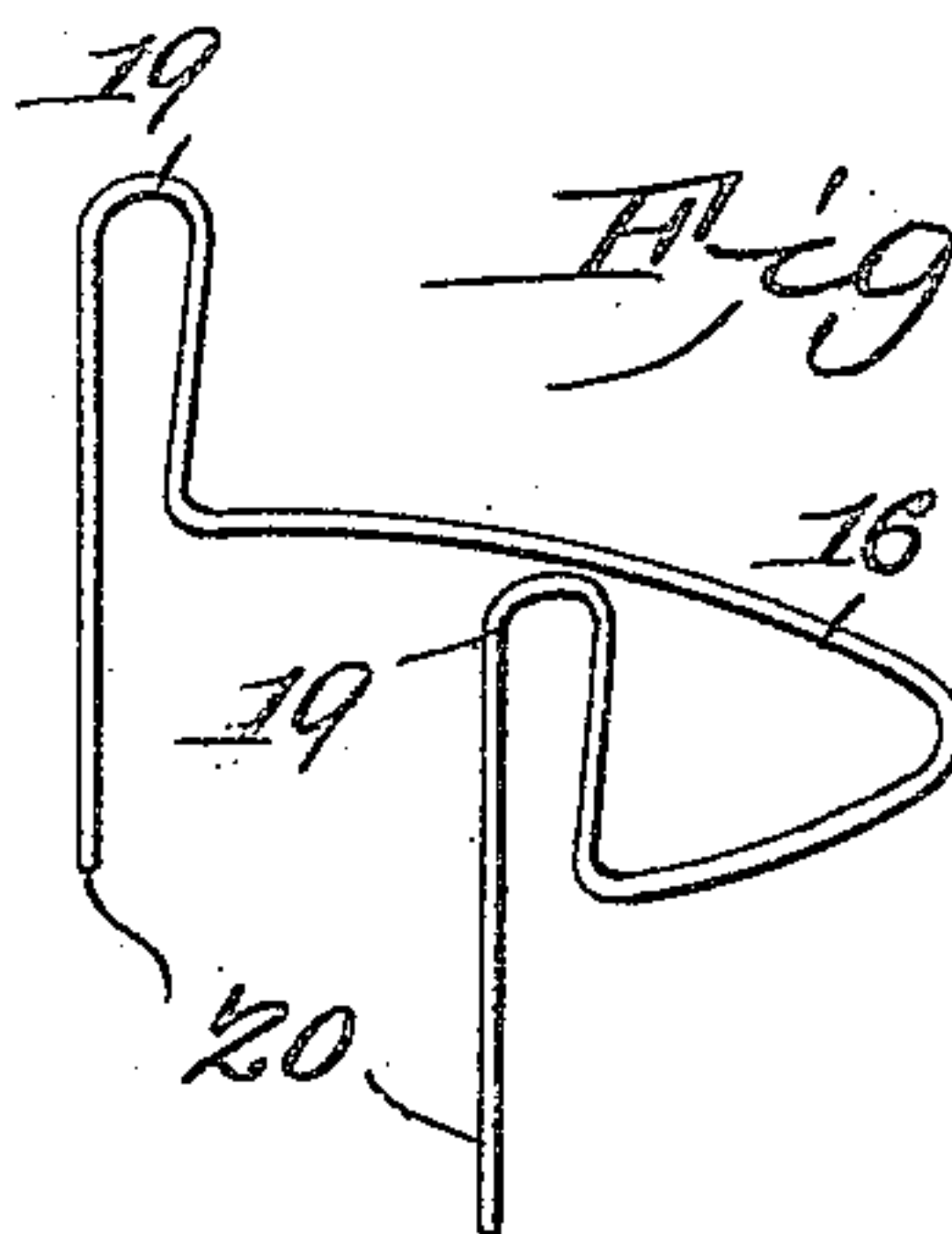


Fig. 6.



WITNESSES:

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PIPE-COVER AND ASH-RETAINER.

No. 838,593.

Specification of Letters Patent.

Patented Dec. 18, 1906.

Application filed April 19, 1906. Serial No. 312,627.

To all whom it may concern:

Be it known that I, ALBERT SPEIRS, a citizen of the United States, residing at 123-125 Liberty street, New York city, in the county of New York and State of New York, have invented a new and useful Pipe-Cover and Ash-Retainer, of which the following is a specification.

This invention is an improved cover and ash-retainer for tobacco-pipes, and has for its object to embody the invention in the nature of an attachment capable of being readily applied to the bowl of any ordinary pipe without making any changes in the bowl. The device is constructed so as to prevent ashes from being blown out of the bowl without in any manner interfering with the necessary draft.

A further object of the invention is to give the cover sufficient flexibility to permit the same being forced down into the bowl of the pipe for packing the tobacco therein, whereby the cover constitutes a shield to prevent burning and soiling of the finger when packing the tobacco.

With these and other objects in view, the present invention consists in the combination and arrangement of parts, as will be hereinafter more fully described, shown in the accompanying drawings, and particularly pointed out in the appended claims, it being understood that changes in form, proportion, size, and minor details may be made within the scope of the claims without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawings, Figure 1 is a sectional view of one embodiment of the invention applied to the bowl of a tobacco-pipe. Fig. 2 is an inverted plan view of the device with the lower frame member removed. Fig. 3 is a detail perspective view of the wire-clamp for attaching the device to a pipe. Fig. 4 is a plan view of a modified form of the invention. Fig. 5 is a sectional view thereof. Fig. 6 is a detail perspective view of the form of attaching-clamp employed in Figs. 4 and 5.

Like characters of reference designate corresponding parts in all of the figures of the drawings.

As embodied in Figs. 1 to 3, inclusive, the present invention includes an annular frame made up of upper and lower rings 1 and 2, the upper ring having an annular flange 3 depending from its outer edge, and the lower ring having an upstanding annular flange 4

at its outer edge, the two flanges being telescoped and rigidly connected in some suitable manner. By preference the flange 3 is sprung upon the flange 4, so as to connect the frame members in a simple and inexpensive manner. Clamped between the frame members is an elastic diaphragm 5, formed by a wire coil having its whirls in close proximity, but not in contact except at the middle of the coil, where the whirls may be in contact and connected, say, by being soldered. Two or more of the outer whirls of the coil are clamped between the frame members and are secured to the lower ring by means of clips 6, bent over said outer whirls from the inner peripheral edge of the ring, thereby to prevent undue looseness and creeping of the diaphragm. For the purpose of attaching the cover to the bowl of a tobacco-pipe, a conventional form of which has been shown at 7 in the drawings, there is provided a clamp formed from a single length of wire, having a bowed intermediate portion 8 to fit within the rings. At the ends of the bowed portion the wire is bent into substantially radial loops 9, constituting finger-pieces. The flanges of the rings are provided with registered openings 10 and 11, through which the finger-pieces project and work in endwise directions. Each free extremity of the wire is bent downwardly across the inner edge of the lower ring 2, and is then rebent into a loop 12, constituting a jaw to engage the adjacent inner wall of the bowl of the pipe.

In practice the cover is applied to the pipe by inserting the jaws 12 within the bowl, with the frame of the cover resting upon the top edge of the bowl. Preparatory to fitting the cover to the bowl the finger-pieces are pressed inwardly, so as to draw together the jaws 12 in order that the latter may be freely entered through the open top of the bowl, after which the finger-pieces are released to permit of the jaws springing out into frictional engagement with the inner walls of the bowl. When the cover is thus applied, the diaphragm effectually retains the ashes and tobacco within the pipe and at the same time does not interfere with the necessary draft. To pack the tobacco, a finger of the hand is pressed against the diaphragm, so as to force the same into the bowl of the pipe, whereby the ashes and tobacco will be packed, as in the ordinary manner of packing the same directly with a finger, the advantage being that the finger is neither soiled nor burned by the hot ashes.

Another embodiment of the invention has been shown in Figs. 4 to 6, inclusive, and includes an annular frame or ring 13 and a diaphragm 14, formed of a wire coil having several of its outermost whirls connected to the ring by means of clips 15, embracing the said whirls and the frame. For attaching the cover to the bowl of the pipe there is provided a clamp formed of a single length of wire having an intermediate bowed portion 16 applied to the upper face of the ring and secured thereto by clips 17, bent across the wire from one edge of the ring. The ends of the bowed portion lie adjacent notches 18, formed in the inner edge of the ring, and said end portions are bent upwardly and then downwardly through the notches, so as to form looped upstanding finger-pieces 19, while the free extremities of the wire project below the ring and constitute jaws 20. In fitting this embodiment of the invention to the bowl of a tobacco-pipe the finger-pieces 19 are pressed inwardly to permit of the jaws 20 being readily entered into the bowl, after which the finger-pieces are released to permit of the jaws springing outward into engagement with the bowl, so as to hold the cover in place.

If desired, each embodiment of the invention may be provided with a button or the like, such as shown at 21 in Figs. 1 and 2 of the drawings, to form a shield for the finger when packing the tobacco.

Having thus described my invention, what is claimed is—

1. A tobacco-pipe cover having an annular frame, a diaphragm formed of a spiral coil of wire, the outer coils of which are rigidly secured to the frame, the inner end of the coil being connected to an adjacent turn of the wire, and a spring-clamp for attaching the cover to the pipe-bowl.

2. The combination with a tobacco-pipe cover including a frame and a yieldable diaphragm, an attaching-clamp having its in-

intermediate portion connected to the frame and its ends being arranged to engage with the inner wall of the bowl, portions of the wire being bent to form finger-pieces to permit contraction of the clamp when the cover is to be removed or inserted.

3. A cover for tobacco-pipes comprising a frame, an open-work diaphragm carried by the frame, and a wire-clamp having its intermediate portion connected to the frame and its free end portions extending downwardly from the frame to form spring-jaws for engagement with a pipe-bowl, the free sides of the wire being formed into outwardly-directed finger-pieces projecting externally of the frame.

4. A cover for tobacco-pipes comprising a frame made up of upper and lower rings, an open-work diaphragm clamped between the rings, and a spring-clamp having its intermediate portion held between the rings and its free end portions projecting downwardly through the inner periphery of the frame to form spring-jaws, the sides of the wire being bent to form lateral finger-pieces projecting outwardly beyond the frame.

5. A cover for tobacco-pipes comprising a frame made up of upper and lower rings having telescoped flanges, said flanges having registered diametrically opposite openings, an open-work diaphragm clamped between the rings, and a wire-clamp having an intermediate portion clamped between the rings with its free end portions extending downwardly from the inner periphery of the frame to form spring-jaws, the free sides of the wire being bent into finger-pieces projecting outwardly through the openings in the flanges.

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

ALBERT SPEIRS.

Witnesses:

CHAS. E. MOSHER,
JOHN J. BOLAND.