C. A. ROSELAND.

FLUE STOPPER.

APPLICATION FILED FEB. 10, 1910.

999,401. Patented Aug. 1, 1911.

Fig. 1.

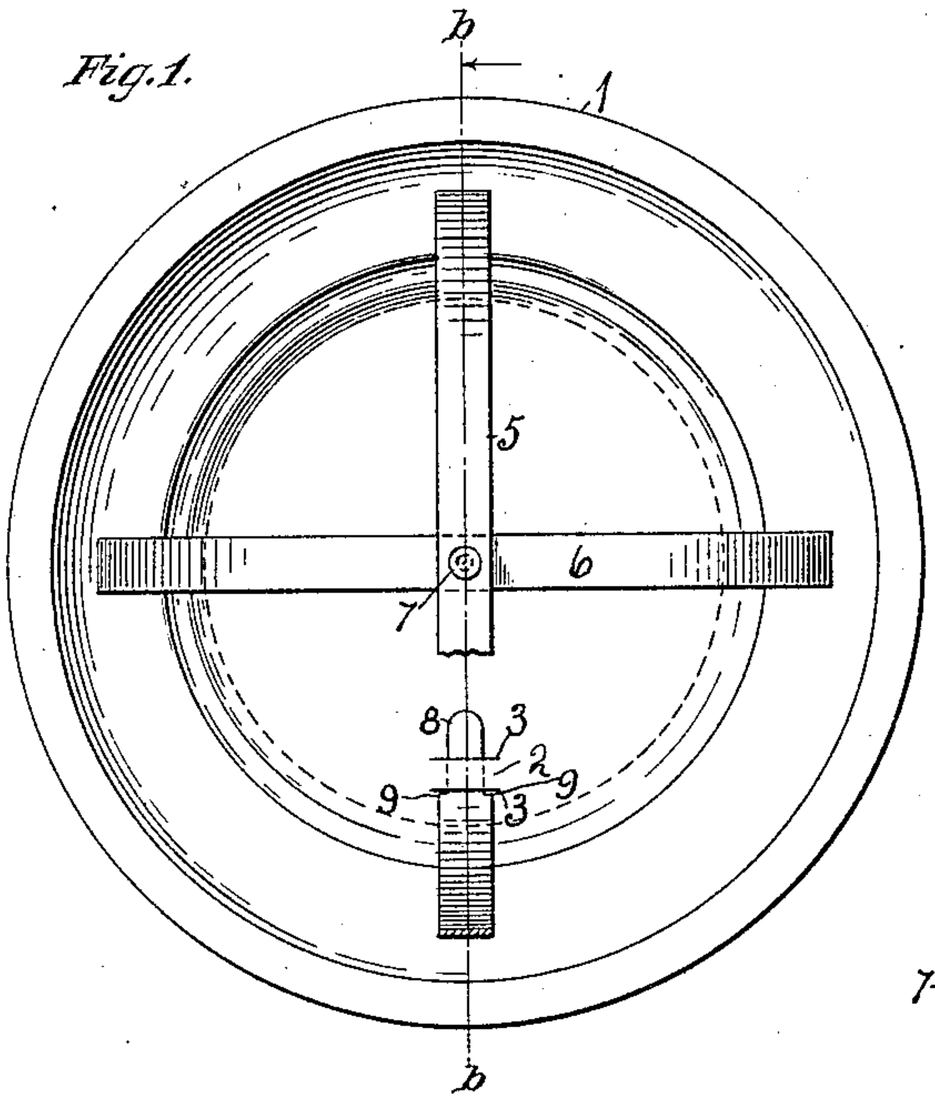

Fig. 2.

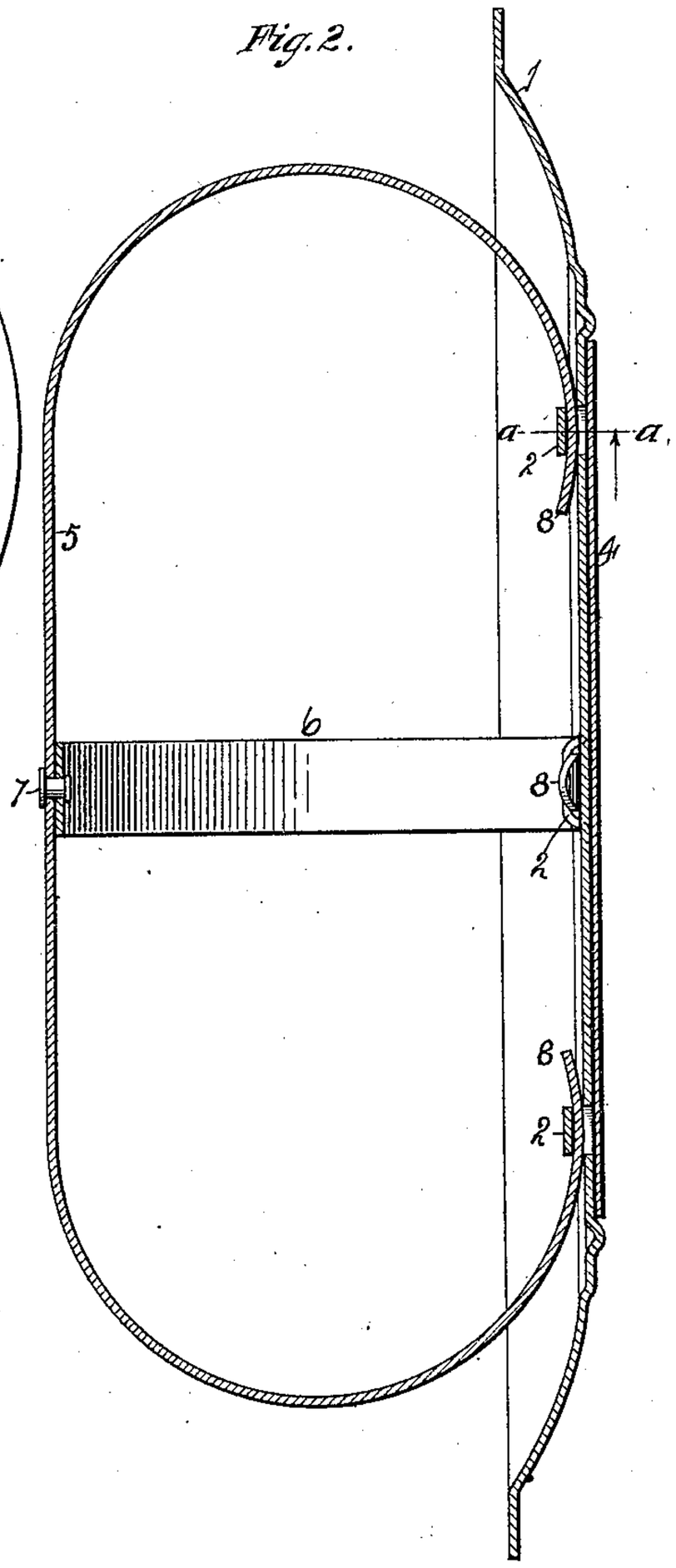

Fig. 3.

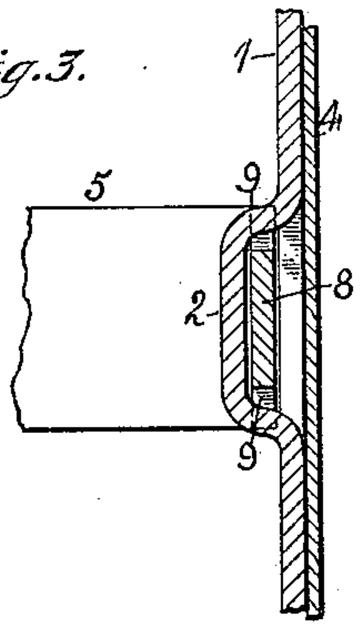

Fig. 4.

Witnesses:
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CARL A. ROSELAND, OF ROCKFORD, ILLINOIS.

FLUE-STOPPER.

999,401. Specification of Letters Patent. **Patented Aug. 1, 1911.**

Application filed February 10, 1910. Serial No. 543,185.

To all whom it may concern:

Be it known that I, CARL A. ROSELAND, a citizen of the United States, residing at Rockford, in the county of Winnebago and State of Illinois, have invented certain new and useful Improvements in Flue-Stoppers, of which the following is a specification.

The object of this invention is to construct a flue stopper in which a bail of flat material is used, in this instance of flat steel, the bail having its ends reduced and normally curved in order that it will readily enter an inwardly formed section of the plate of the stopper thereby preventing the puncturing of the label or picture placed on the face of the plate.

In the accompanying drawings, Figure 1 is an innerface representation of my improved flue stopper, in which a portion of one of the bails is broken away. Fig. 2 is a section on dotted line *b b* Fig. 1. Fig. 3 is a section on dotted line *a a* Fig. 2. Fig. 4 is an edge view of the bails in their detached and folded position.

The plate 1 is circular in outline, and is formed with four inwardly extending sections 2, made by punching slits 3, and forcing the sections 2 inward. The center of the face of the plate 1 is covered with a picture or other ornamental paper design 4. Two bails 5 and 6 are pivotally connected by the rivet 7 and the end 8 of each bail is curved toward the main portion of the bail as shown at Fig. 2, of the drawings. This end portion is also reduced in width as shown in Figs. 1 and 3, thereby forming shoulders 9.

The flue stopper is shipped in a knockdown condition, the bails folding within one another as shown at Fig. 4. As the plate 1 has a paper ornamental design 4 pasted to its outerface great care has heretofore been necessary in placing the bails in connection with the plate in order not to puncture the paper design. In order to overcome this objection, I have normally curved the ends of the bails so that they will not contact with the paper design. The shoulders 9 contact with the sections 2, thereby preventing these ends of the bails from extending too far through the sections 2. In further explanation, it may be stated that inasmuch as the bails are of steel, or other resilient material, they will of course spring back as far as possible to their normal position, after being spread apart, so as to be introduced into the sections or loops 2, and consequently when so introduced and the shoulders 9 abut against the loops 2, as explained above, a firm structure is provided, and the face plate will not move with respect to the bails. This rigid interlocking action is assisted by the central connection between the bails, and as the said connection permits the relative pivotal movement of said bails when disconnected from the face plate, these bails can be nested so that the parts will occupy but little space and yet can be readily arranged and assembled without the use of tools and the like.

I claim as my invention:

In a flue stopper, the combination with a face plate having oppositely spaced inwardly stamped loops on its inner side, of a facing sheet attached to the outer side of the plate, curved bails of spring sheet metal pivotally connected at their centers and having their end portions reduced to provide stop shoulders, said end portions being curved inwardly toward the main portions of the bails, said bails being capable of nesting one within the other and having their terminal portions normally disposed closer together than the space between the loops, whereby the shoulders will abut against the loops and the terminal portions may be introduced into and removed from the loops without puncturing the facing sheet.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

CARL A. ROSELAND.

Witnesses:
A. D. BEHEL,
E. D. E. N. BEHEL.