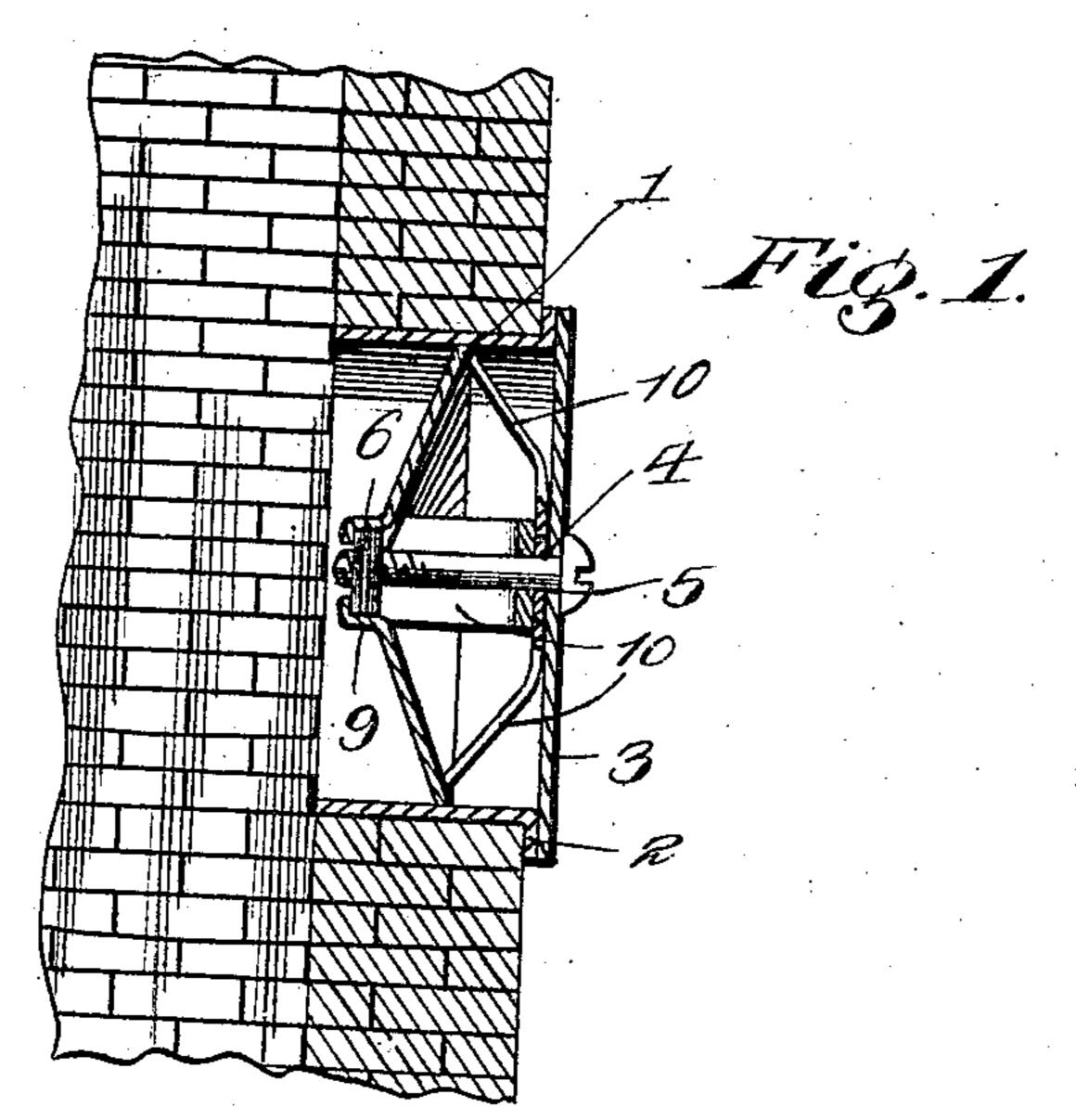
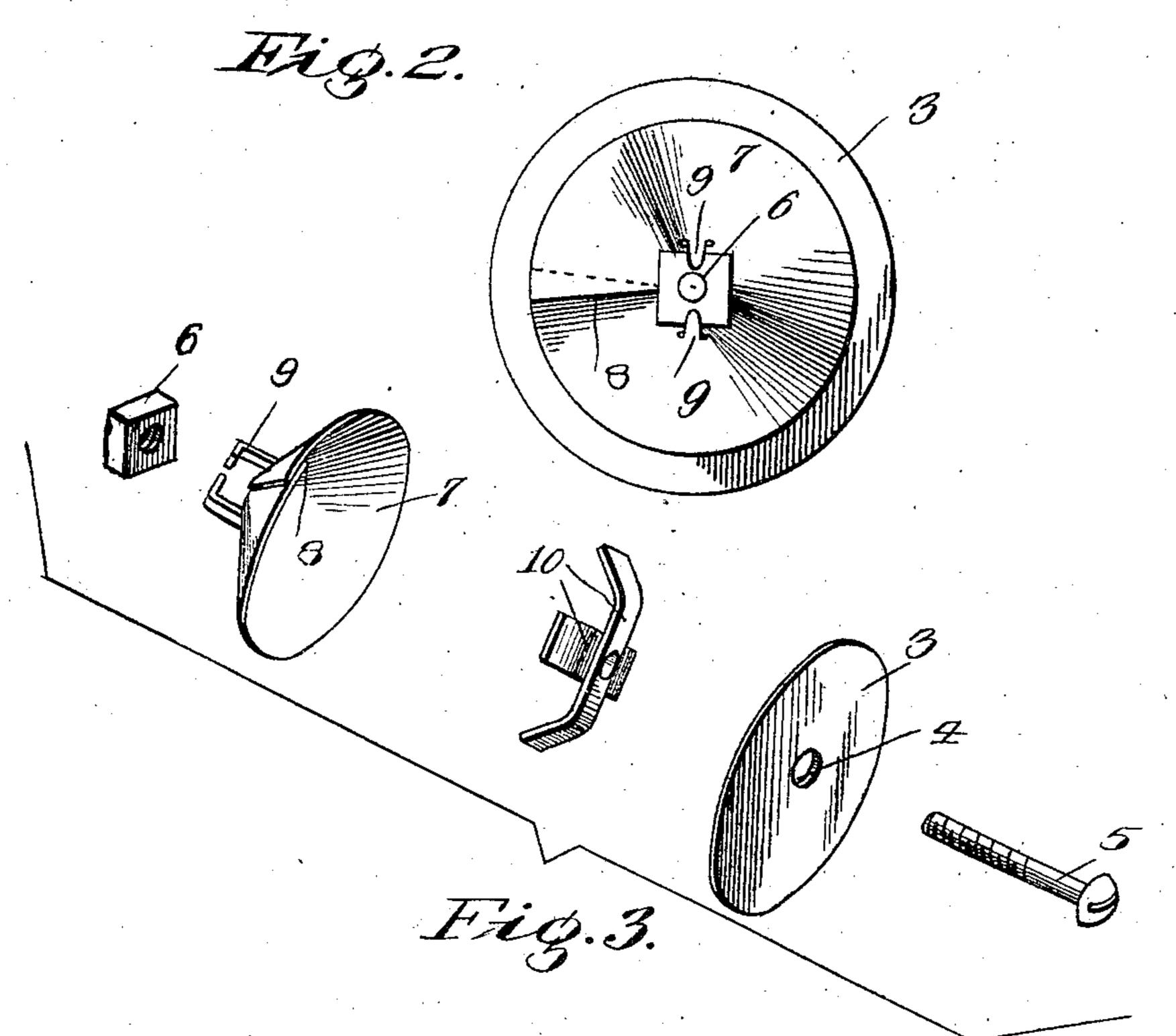
No. 843,855.

PATENTED FEB. 12, 1907.

W. WELLER.
FLUE STOP.
APPLICATION FILED FEB. 21, 1906.





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CED STATES PATENT OFFICE.

WILLIAM WELLER, OF MINERAL CITY, OHIO.

FLUE-STOP.

No. 843,855.

Specification of Letters Patent.

Patented Feb. 12, 1907.

Application filed February 21, 1906. Serial No. 302,301.

To all whom it may concern:

Be it known that I, WILLIAM WELLER, citizen of the United States, residing at Mineral City, in the county of Tuscarawas and 5 State of Ohio, have invented certain new and useful Improvements in Flue-Stops, of which the following is a specification.

The object of the present invention is to provide an improved flue-stop which will 10 form an absolutely soot and fire proof closure for the flue and which is so designed as to be very cheaply and economically manufac-

tured.

A further object is to provide a device of 15 this character which can be easily and quickly placed in position or removed therefrom without in any manner working any in-

jury to the flue.

To this end the invention comprises, essen-20 tially, a cover-plate fitting over the end of the flue, a peculiarly-constructed clamping member fitting within the flue and held spaced from the cover-plate, and a clamping-bolt passing through the cover-plate and coöper-25 ating with the clamping member.

For a full description of the invention and the merits thereof and also to acquire a knowledge of the details of construction of the means for effecting the result reference is 30 to be had to the following description and

accompanying drawings, in which—

Figure 1 is a sectional view showing the application of the device. Fig. 2 is a plan view of the device, and Fig. 3 is a detail per-35 spective view showing the various parts sepa-

rated. Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same

40 reference characters.

The numeral 1 designates a flue-thimble in which the edges thereof are bent outwardly, so as to form a flange 2, and 3 is the coverplate, which preferably conforms to the shape of the flue and fits against the flanges 2. This cover-plate 3 is provided at its middle point with an opening 4, through which the clamping-bolt 5 is passed. The inner end of the clamping-bolt engages with a nut 6, which is 50 carried by the clamping member 7. The clamping member is preferably formed out of a piece of sheet material of a size somewhat larger than the interior of the flue and provided with a radial cut 8. This piece of 55 sheet material is bent so as to cause the edges of the radial cut 8 to overlap each other and 1

form an approximately conical-shaped clamping member the concave side of which faces the cover-plate.

It will be readily understood that the size 60 of the base of the clamping member will depend entirely upon the amount these edges overlap each other and that by expanding the base after the clamping member has been placed within the flue the same will be given 65

a secure engagement therewith.

The inner end of the bolt 5 passes through the opening at the apex of the conical-shaped clamping member, and the nut 6 is held in position at the apex by means of tongues 9, 70 which are cut in the sheet material and bent outwardly. Arms 10 are provided to hold the clamping member spaced from the coverplate, and these arms are preferably formed of intersecting strips of material having open- 75 ings at their middle points, through which the clamping-bolt 5 is passed, and having their ends bent outwardly, so as to engage with the base of the clamping member. It will thus be seen that the arms hold the base 80 of the clamping member a fixed distance from the cover-plate and that when the clamping-bolt 5 is tightened the clamping member is flattened out, so as to throw the edges thereof into a close engagement with 85 the interior of the flue.

From the foregoing description it will be apparent that in the application of the device the clamping member is simply placed within the flue so as to throw the cover-plate 90 against the end thereof and is then expanded

by means of the clamping-bolt.

Having thus described the invention, what

is claimed as new is—

The combination of a flue, a cover-plate 95 fitting over the mouth of the flue, a clamping member spaced from the cover-plate and fitting within the flue, the said clamping member being formed from a piece of sheet material having a radial cut therein and bent to 100 cause the edges of the radial cut to overlap each other and give the clamping member an approximately conical formation, the hollow side of the clamping member facing the coverplate, intersecting strips of material inter- 105 posed between the clamping member and the cover-plate, the intermediate portions of the intersecting strips bearing against the coverplate, while the ends thereof are bent outwardly to form arms which engage with the 110 base of the clamping member and hold the same a fixed distance from the cover-plate, a

nut located at the apex of the clamping member and held in position by means of tongues bent outwardly therefrom, and a clampingbolt passing through the cover-plate and in-tersecting strips and engaging with the be-fore-mentioned nut whereby the apex of the clamping member can be drawn inwardly toward the cover-plate and the base of the

clamping member expanded and thrown into a close engagement with the flue.

In testimony whereof I affix my signature

in presence of two witnesses.
WILLIAM WELLER.

Witnesses:

J. D. Heinlein, THOS. C. FERRELL.