

No. 791,602.

PATENTED JUNE 6, 1905.

C. W. BAKER.

FLUE STOP.

APPLICATION FILED MAR. 23, 1904.

Fig. 1.

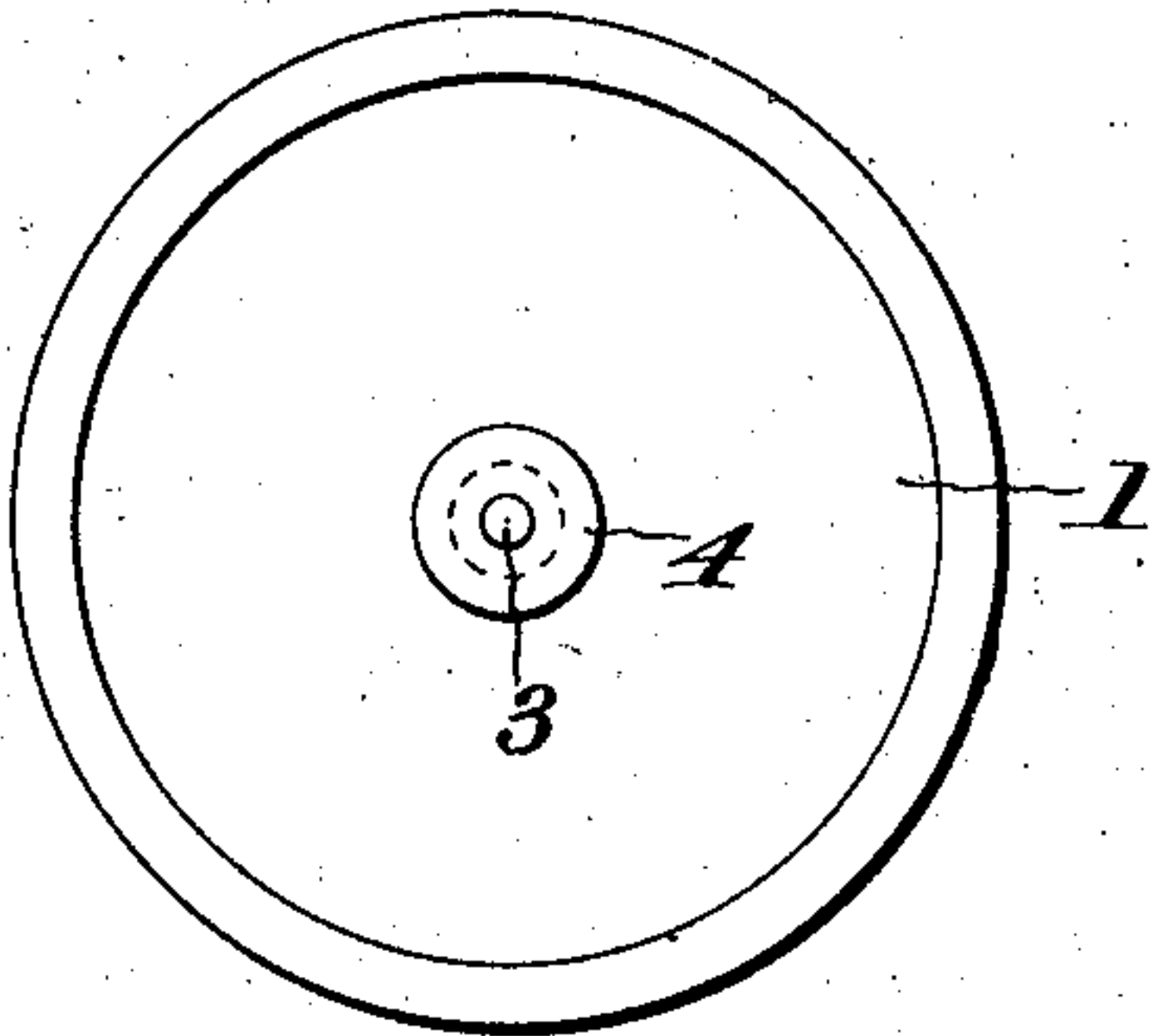


Fig. 2.

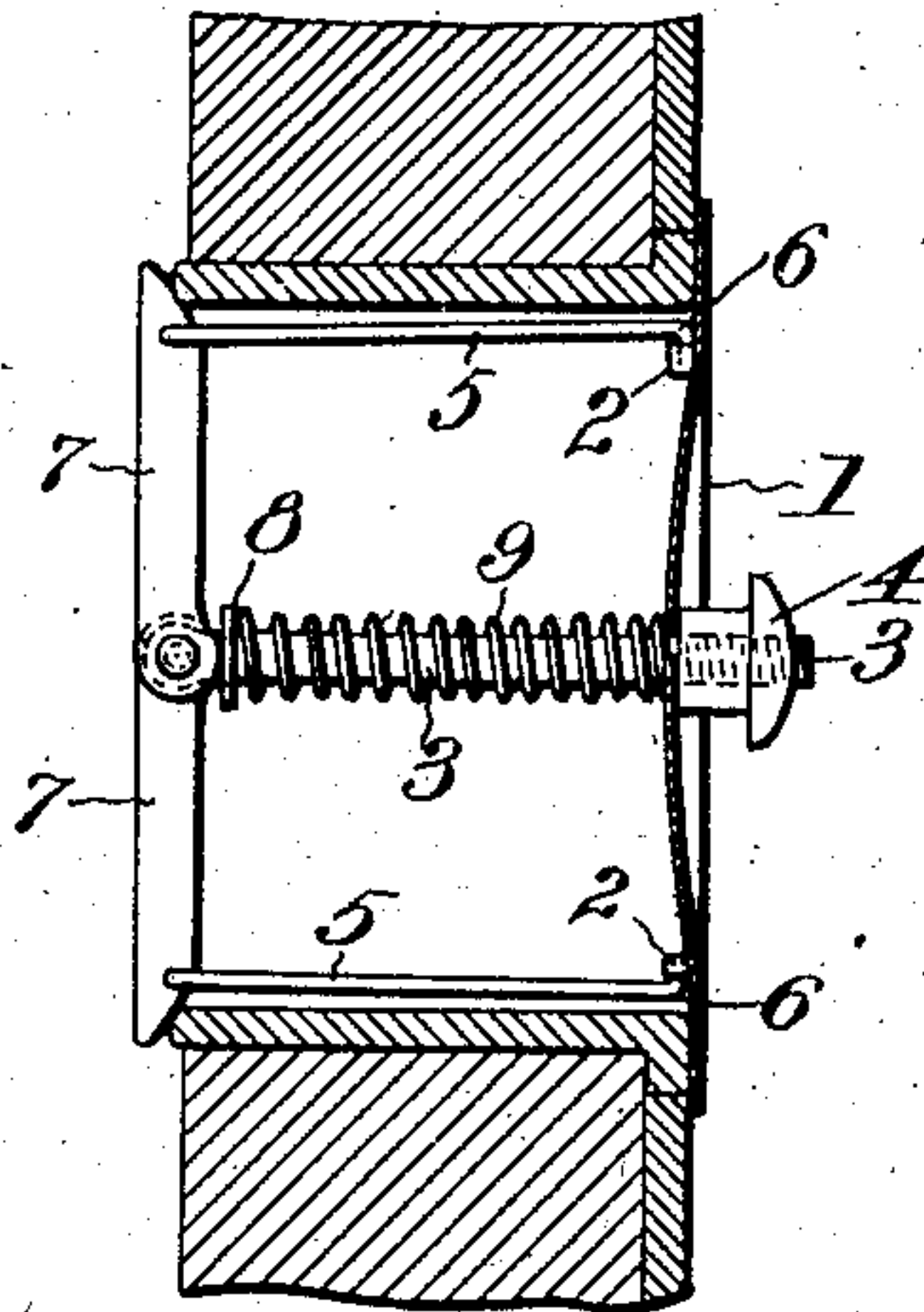


Fig. 3.

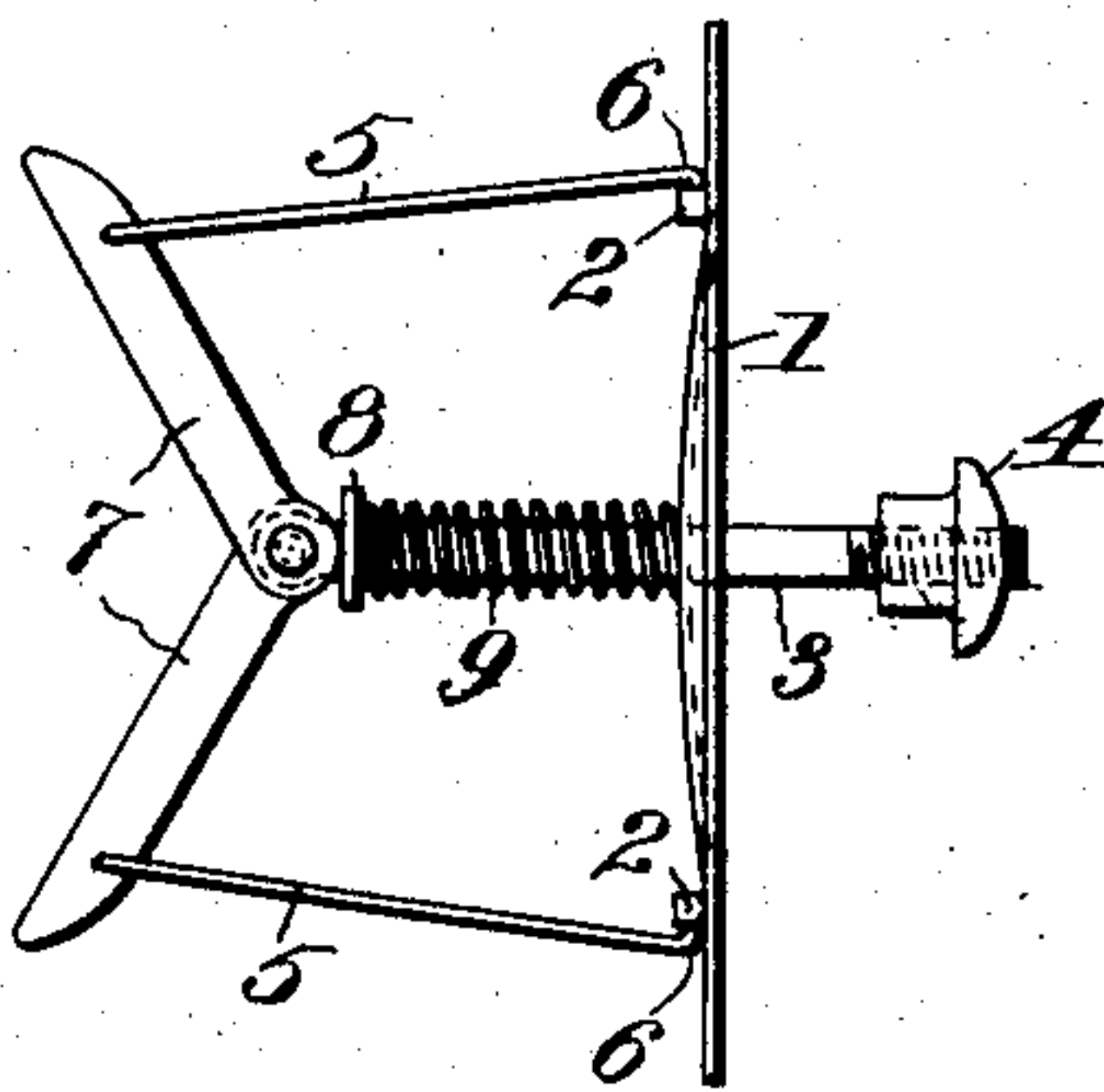
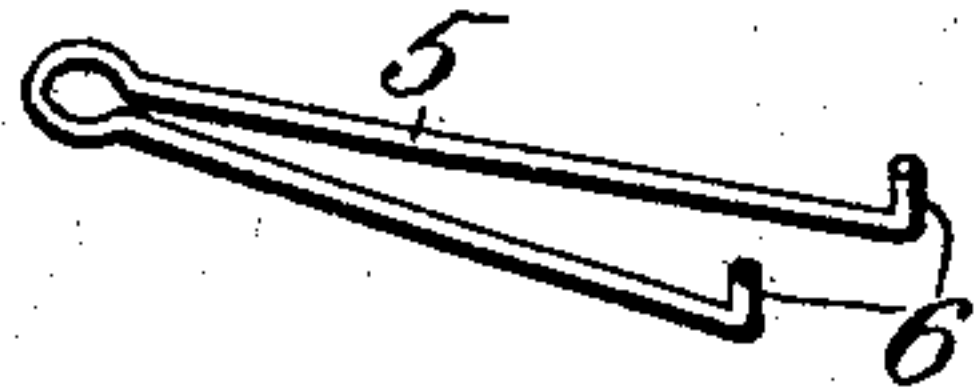


Fig. 4.



WITNESSES:

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UNITED STATES PATENT OFFICE.

CARSON W. BAKER, OF STAFFORD, KANSAS, ASSIGNOR OF ONE-HALF TO
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FLUE-STOP.

SPECIFICATION forming part of Letters Patent No. 791,602, dated June 6, 1905.

Application filed March 23, 1904. Serial No. 199,591.

To all whom it may concern:

Be it known that I, CARSON W. BAKER, a citizen of the United States, residing at Stafford, in the county of Stafford and State of Kansas, have invented new and useful Improvements in Flue-Stops, of which the following is a specification.

This invention relates to improvements in flue-stops.

The object of the invention is to provide a flue-stop which may be adjusted to fit thimble and stovepipe holes of different diameters and of different lengths.

Furthermore, the object of the invention is to provide a flue-stop having spring-actuating arms which will draw the flue-cap tightly over the thimble or stovepipe hole, thus preventing the escape of dust or soot into the interior of the house.

Furthermore, the object of the invention is to provide a simple, inexpensive, and effective device for the stoppage of a stovepipe-hole and which may be easily secured or removed from a stovepipe-hole, as desired.

With the foregoing and other objects in view the invention consists in the details of construction and in the arrangement and combination of parts to be hereinafter more fully set forth and claimed.

In describing the invention in detail reference will be had to the accompanying drawings, forming part of the specification, wherein like characters denote corresponding parts, and in which—

Figure 1 is a front elevation. Fig. 2 is a section through the cap and thimble, showing the spring-actuating means for holding the cap over the thimble. Fig. 3 is a side elevation. Fig. 4 is a view of one of the connecting-rods removed.

In the drawings, 1 indicates the cap. This is stamped or otherwise cut from sheet metal in the accustomed manner and may have a plain or ornamental outer surface. On the inner surface of the cap 1 are provided sockets 2 2 2 2, which are formed by turning a strip of sheet metal back on itself and soldering the meeting ends to the cap. The sock-

ets are secured on the inner surface of the cap near its peripheral edge, so that the wall of the flue-hole will prevent the accidental disengagement of the feet of the connecting-rods after the same are inserted within a thimble or flue-hole. The central portion of the cap is provided with an aperture through which a manipulating-rod 3 extends, said rod having a thumb-nut 4 threaded on one end and an aperture in its opposite end. Connecting-rods 5 5 of approximately V shape, each having a loop at one end and its opposite ends bent at a right angle to the horizontal portion of the connecting-rods, thus forming feet 6 6 6 6, said feet adapted to enter the sockets 2 2 2 2, are employed.

Pivoted to the end of the manipulating-rod are two arms 7 7. These arms extend in opposite directions, and each is supported by a connecting-rod by having the connecting-rod run through an aperture in its outer end. The ends of the arms have the corners rounded off, so that the ends will not engage the thimble or stovepipe hole in such a manner that it will be difficult to remove the cap.

A washer 8 is secured on the manipulating-rod and rests against the pivoted ends of the arms 7 7, a coiled spring 9 surrounding the rod, having one end bearing against the washer 8 and the opposite end bearing against the inner surface of the flue-stop cap. The tension of the spring is regulated by the thumb-nut 4 on the outer end of the manipulating-rod.

The operation of my device is as follows: The thumb-nut is drawn away from the cap, and this motion, through the medium of the manipulating-rod, draws the end of the arms inwardly and permits said arms to be inserted within the thimble or flue-hole. When the cap is seated over the flue-hole or thimble, the thumb-nut is released, and the spring forces the ends of the arms over the inner edge of the thimble or the wall of the flue-hole, thereby securing the flue-stop in its proper position.

The construction, operation, and advantages, it is thought, will be understood from the foregoing description, it being noted that various

changes may be made in the proportions and details of construction without departing from the scope of the invention.

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

1. In a flue-stop, a cap having a central aperture, and provided with sockets on its inner surface, a manipulating-rod provided with
10 a thumb-nut, slidable in the aperture of the cap, connecting-rods of approximately V shape having their ends bent at an angle to the body portion, said ends being inserted in said sockets arms pivoted at one end to the
15 manipulating-rod and supported at their opposite ends by the connecting-rods and a spring encircling the manipulating-rod as and for the purpose set forth.

2. In a flue-stop, a cap having a central
20 aperture and provided with sockets secured on its inner surface, inwardly-extending con-

necting-rods having bent portions engaging the sockets secured on the inner surface of the cap, a manipulating-rod slidable through the central aperture of the cap, arms pivoted
25 at their inner ends to the manipulating-rod and at their outer ends to the connecting-rods, said arms having rounded corners, a spring encircling the manipulating-rod and adapted by its expansion to bring the arms into locking po-
30 sition and an adjusting thumb-nut on the outer end of the manipulating-rod whereby the tension of the spring may be increased or diminished as and for the purpose described.

In testimony whereof I have signed my name
35 to this specification in the presence of two subscribing witnesses.

CARSON W. BAKER.

Witnesses:

A. E. ASHER,
S. C. TURNER.