

No. 886,366.

PATENTED MAY 5, 1908.

H. K. HANSEN.
EXTENSION STOVEPIPE.
APPLICATION FILED AUG. 5, 1907.

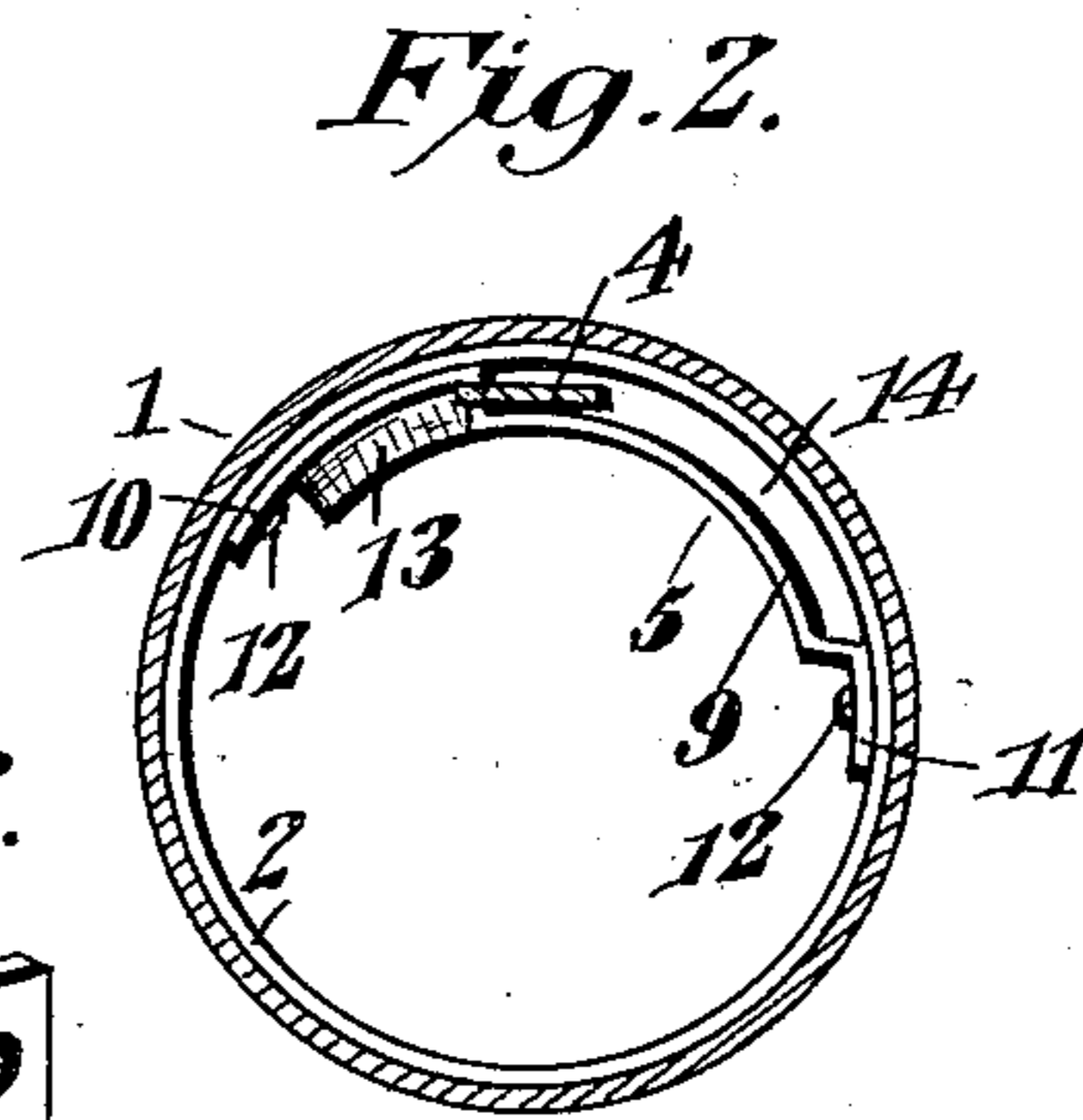
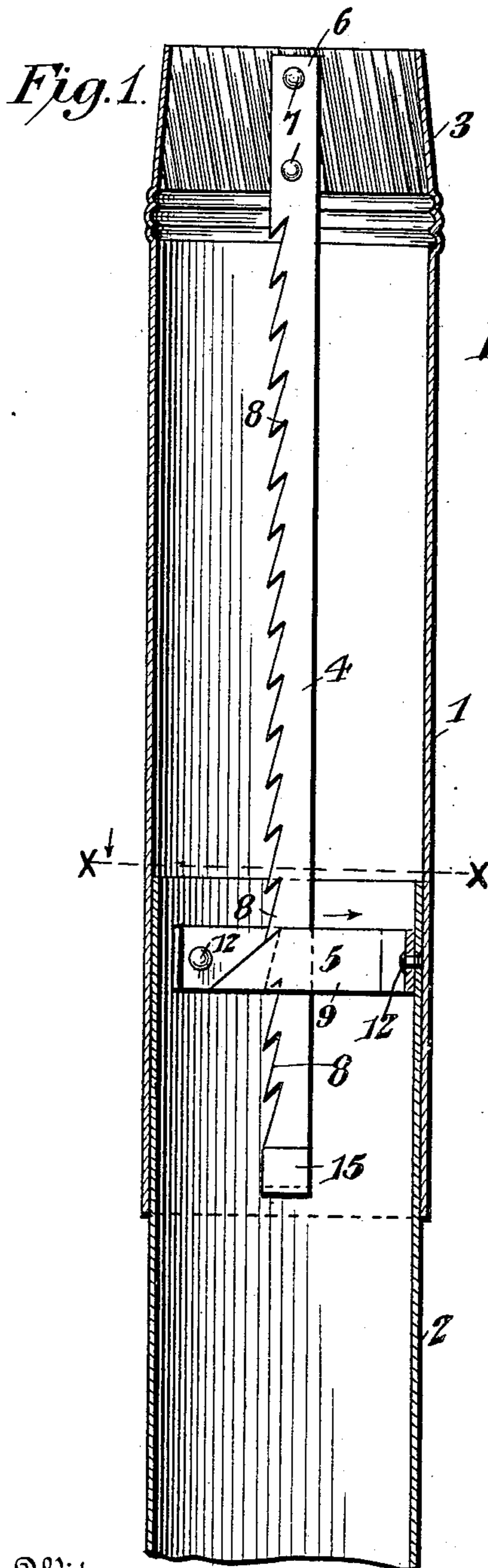


Fig. 3.

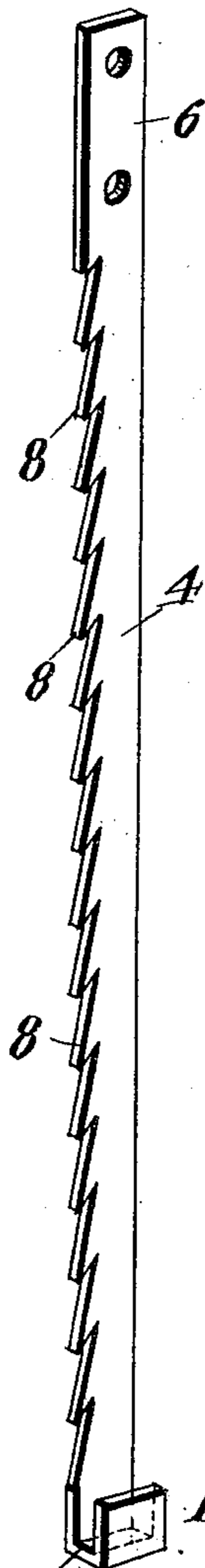
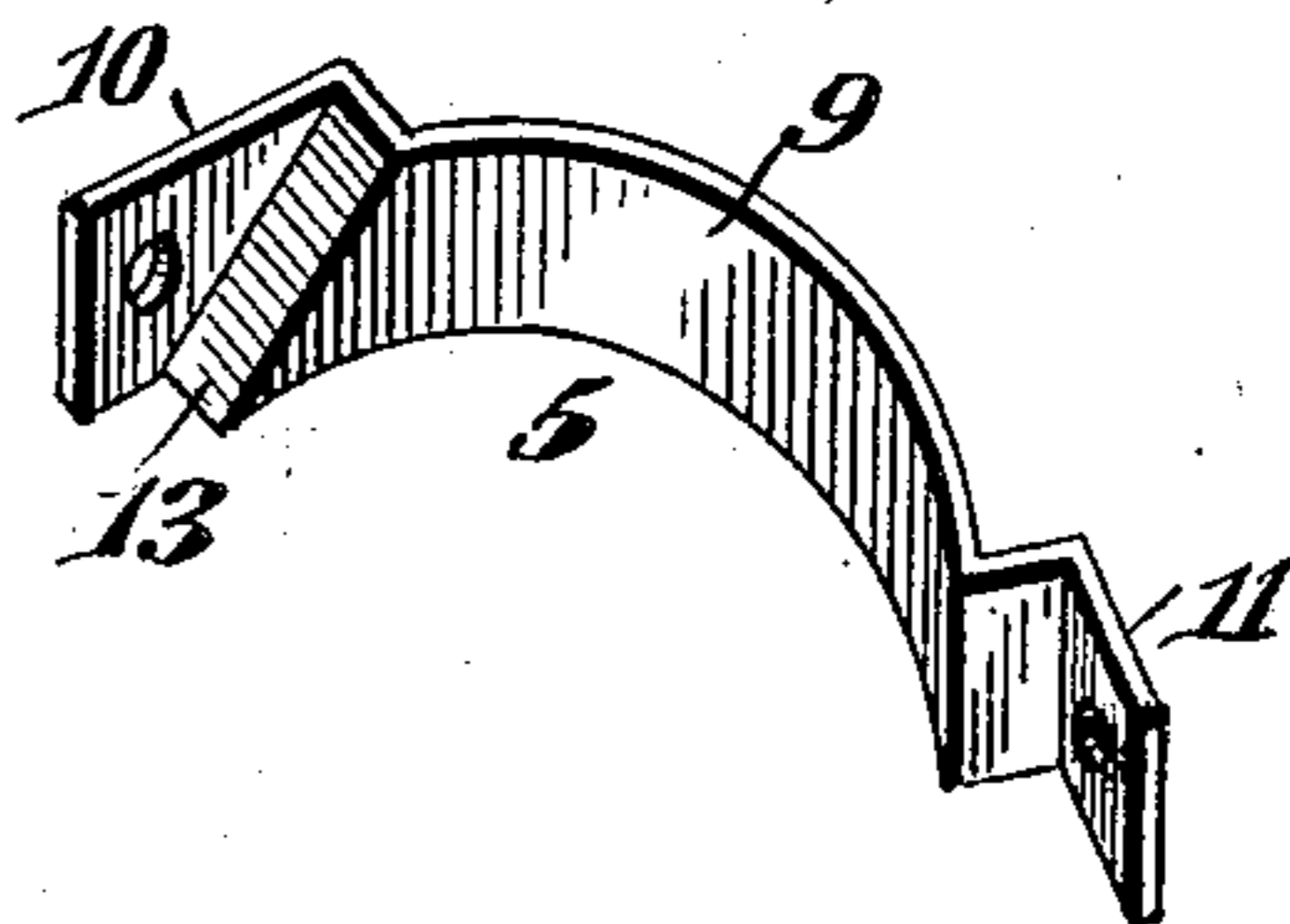


Fig. 4.



Witnesses
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UNITED STATES PATENT OFFICE.

HEBER K. HANSEN, OF LOGAN, UTAH, ASSIGNOR OF ONE-HALF TO LUCIAN C. FARR, OF LOGAN, UTAH.

EXTENSION-STOVEPIPE.

No. 886,366.

Specification of Letters Patent.

Patented May 5, 1908.

Application filed August 5, 1907. Serial No. 387,094.

To all whom it may concern:

Be it known that I, HEBER K. HANSEN, a citizen of the United States, residing at Logan, in the county of Cache and State of Utah, have invented a new and useful Extension-Stovepipe, of which the following is a specification.

The invention relates to an extension stove pipe.

The object of the present invention is to provide an extension stove pipe or an extensible connection, adapted to enable common piping to be readily adjusted to fit any space between a stove and the angle or elbow leading to the flue without cutting the pipe sections.

With these and other objects in view, the invention consists in the construction and novel combination of parts hereinafter fully described, illustrated in the accompanying drawing, and pointed out in the claims hereto appended; it being understood that various changes in the form, proportion, size and minor details of construction, within the scope of the claims, may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawing:—Figure 1 is a longitudinal sectional view of an extensible stove pipe, constructed in accordance with this invention. Fig. 2 is a transverse sectional view, taken substantially on the line $x-x$ of Fig. 1. Fig. 3 is a detail perspective view of the longitudinal ratchet bar. Fig. 4 is a similar view of the combined guide and catch.

Like numerals of reference designate corresponding parts in all the figures of the drawing.

The extensible stove pipe or connection comprises two telescoping pipe sections or members 1 and 2, the upper pipe section or member 1 being provided with a tapered crimped end 3 to fit the plain end of an ordinary stove pipe (not shown.) The other section 2, which consists of a plain cylindrical pipe, is adapted to receive the tapered or crimped end of an ordinary stove pipe (not shown.) The pipe sections or members 1 and 2 are slidable on each other to vary the length of the extensible stove pipe or connection to enable ordinary piping to be readily adjusted without cutting to suit the distance or space between a stove and the angle or elbow leading to the stove pipe hole or opening of a chimney or flue, and the said sections

1 and 2 are adjusted by means of a longitudinal ratchet bar 4 and a transversely disposed combined guide and catch 5. The ratchet bar, which is secured at its upper end 6 by rivets 7, or other suitable fastening devices to the tapered or crimped upper end 3 of the pipe section 1, extends downwardly to a point adjacent to the lower end of the said section 1, and it is provided at intervals with ratchet teeth 8, which are shouldered at their lower edges. The lower edges of the teeth 8 are inclined to enable them to hook over the combined guide and catch 5, whereby the upper section 1 is locked against downward movement.

The combined guide and keeper, which may be constructed by stamping it out of a strip of metal, or in any other preferred manner, consists of a curved intermediate portion 9 and attaching angle arms 10 and 11, secured by rivets 12, or other suitable fastening devices to the lower pipe section 2 near the upper end thereof. The attaching arms 10 and 11 are approximately L-shaped, and they off-set the intermediate curved portion 9 from the inner face of the pipe section 2, as clearly illustrated in Fig. 2 of the drawing. The connecting portion 13 of the arm 10 is arranged at an inclination to form a catch, and its upper end is arranged to be engaged by the teeth of the ratchet bar, as clearly illustrated in Fig. 1 of the drawing. The ratchet bar, which extends through the space 14 between the curved portion of the combined guide and catch and the stove pipe section 2, is disengaged from the inclined connecting portion 13 by raising the pipe section 1 and slightly rotating the same in the direction of the arrow in Fig. 1. This will permit the sections to be adjusted longitudinally on each other to make the extensible stove pipe or connection the desired length, and the sections or members are locked by a reverse limited relative rotary movement to carry a tooth of the ratchet bar into engagement with the inclined connecting portion 13. The inclined connecting portion 13 extends upwardly and inwardly from the lower edge of the arm 10, and the weight of the upper section and the piping supported by the same will maintain the ratchet bar firmly in engagement with the inclined connecting portion 13 of the combined guide and catch. The free lower end of the ratchet bar is angu-

larly bent to form an inwardly or upwardly extending hook-shaped stop 15, which extends laterally or horizontally and then upwardly. The hook-shaped stop 15 is arranged to engage the lower edge of the combined guide and keeper to prevent the sections of the extensible stove pipe from becoming separated.

The combined guide and catch are located wholly within and are concealed by the sections of the extensible stove pipe, and they in nowise interfere with the sliding of the sections on each other, when the ratchet bar is out of engagement with the inclined engaging portion 13 of the combined guide and catch.

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

1. An extensible stove pipe comprising two telescoping pipe sections, a longitudinal ratchet member located within and secured to one of the sections, and an interiorly arranged combined guide and catch fixed to the other section and receiving the ratchet bar and arranged to be engaged with the teeth thereof by rotating one of the sections.

2. An extensible stove pipe comprising two telescoping pipe sections, a longitudinal ratchet bar secured at one end within one of the pipe sections and provided at the other end with a stop, and a combined guide and catch receiving the ratchet bar and arranged to be engaged with the teeth thereof by rotating one of the sections, said guide and catch being also adapted to be engaged by the said stop.

3. An extensible stove pipe comprising two telescoping pipe sections, a longitudinal ratchet bar secured at one end within one of the pipe sections and provided at the other with an inwardly extending hook forming a stop, and a combined guide and catch receiving the ratchet bar and arranged to be engaged with the teeth thereof by rotating one

of the sections, said guide and catch being also adapted to be engaged by the said stop.

4. An extensible stove pipe comprising two telescoping sections, a ratchet bar secured to one of the sections, and a combined guide and catch secured to the other section and consisting of attaching arms and an intermediate connecting portion, one of the arms being arranged to be engaged with the teeth of the ratchet bar by rotating one of the sections.

5. An extensible stove pipe comprising two telescoping sections, a ratchet bar secured to one of the sections, and a combined guide and catch consisting of a curved intermediate portion spaced from the other section, and terminal arms connecting the curved portion with the latter section, one of the arms being provided with an inclined portion arranged to be engaged by the teeth of the ratchet bar.

6. An extensible stove pipe comprising two telescoping sections, a ratchet bar secured at one end to one of the sections and having its other end bent to form a hook-shaped stop, and a transversely disposed combined guide and catch consisting of a curved intermediate portion spaced from the other section of the extension stove pipe and confining the ratchet bar and arranged to be engaged by the hook-shaped stop of the same, and angle arms connecting the intermediate portion of the combined guide and catch with the latter section of the extension stove pipe, one of the said arms being provided with an inclined portion arranged to be engaged by the teeth of the ratchet bar.

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

HEBER K. HANSEN.

Witnesses:

JOS. QUINNEY,

JOHN A. CROCKETT.