

No. 606,846.

Patented July 5, 1898.

O. W. SNYDER.
COOKING STOVE.

(Application filed Aug. 17, 1896.)

(No Model.)

Fig. 1.

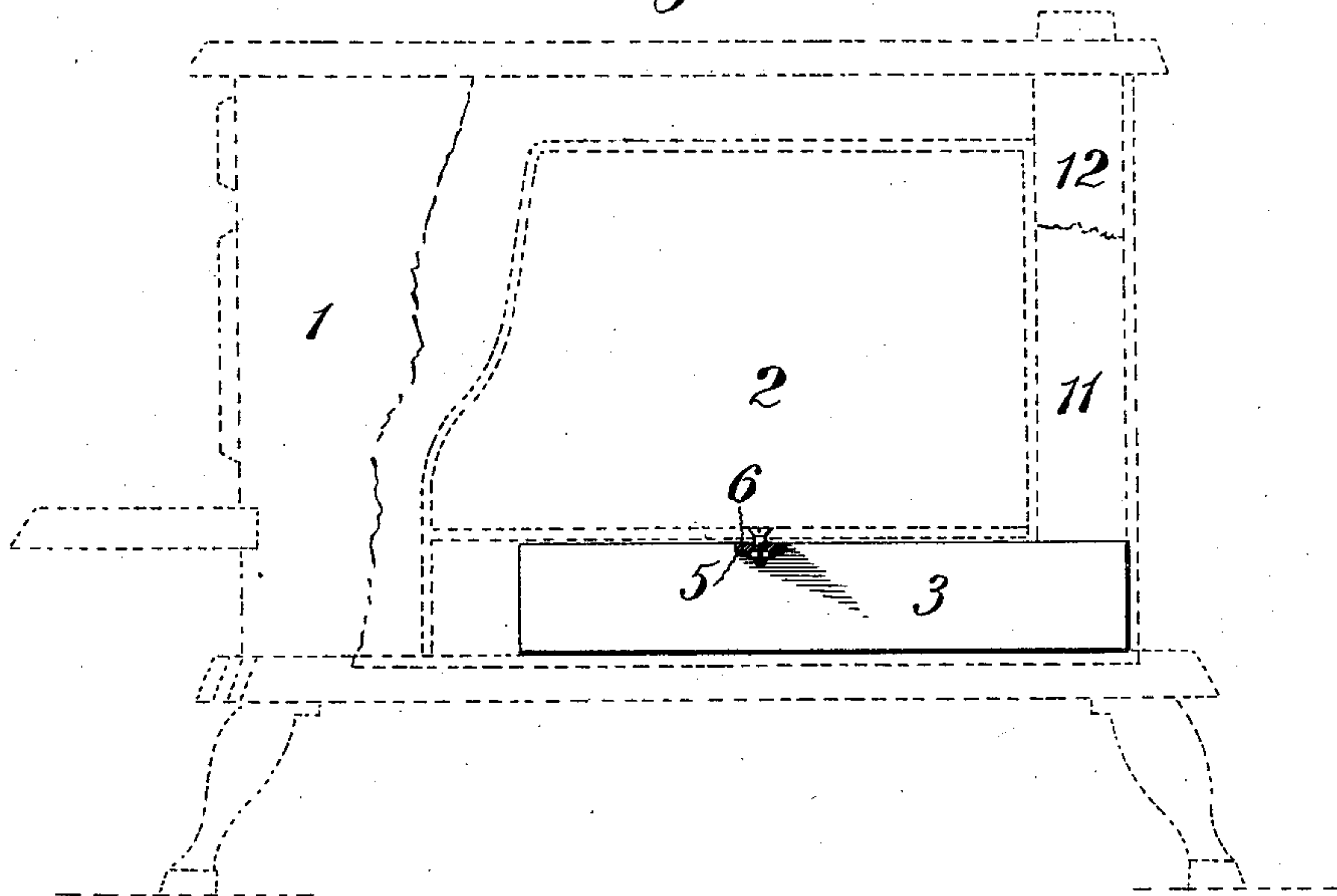
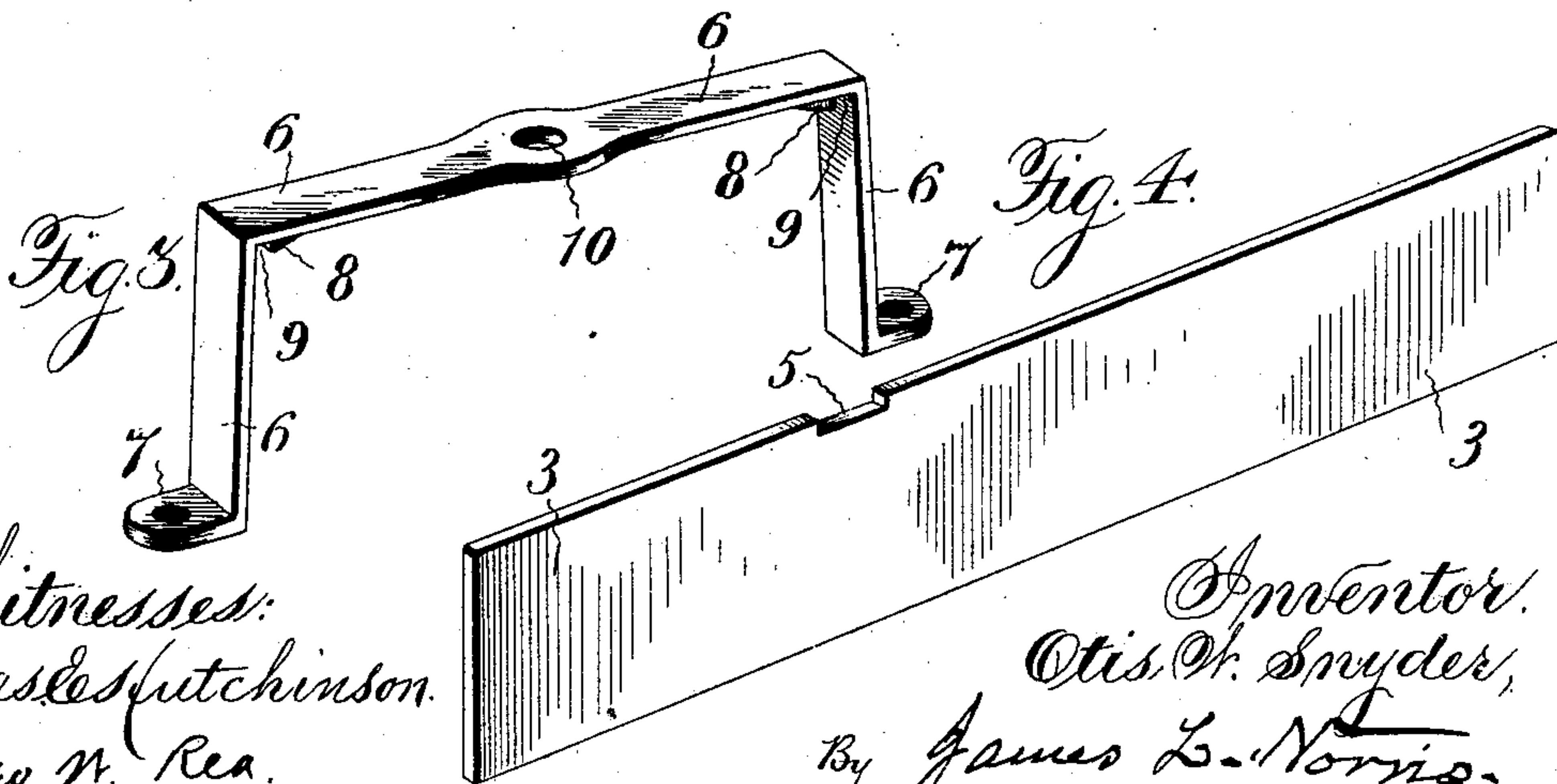
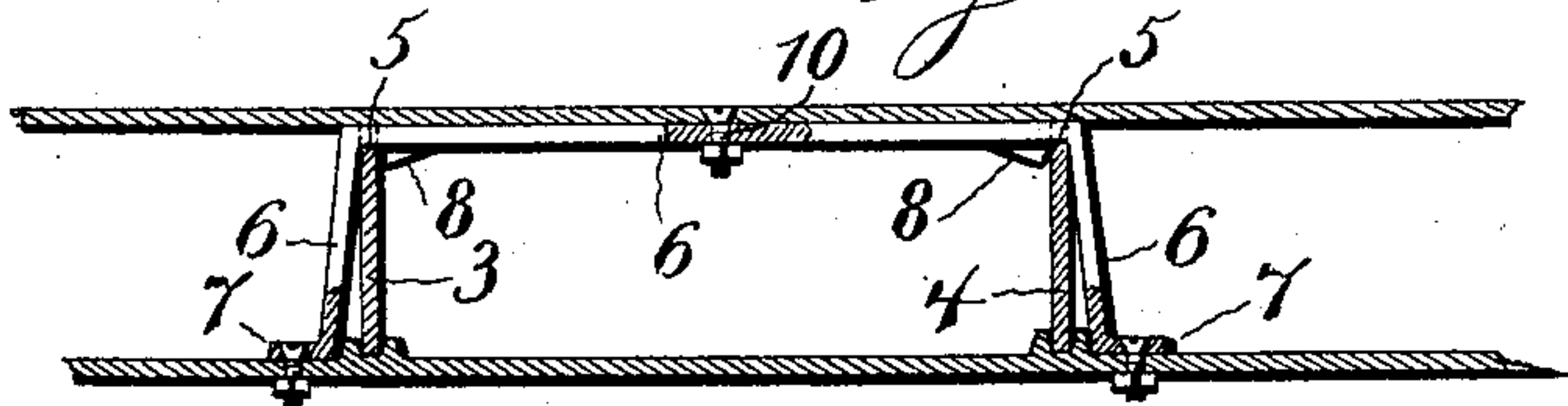


Fig. 2.



Witnesses:
James Hutchinson.
Geo. W. Rea.

Inventor.
Otis W. Snyder,
By James L. Norris.
Attorney.

UNITED STATES PATENT OFFICE.

OTIS WILSON SNYDER, OF LEXINGTON, KENTUCKY.

COOKING-STOVE.

SPECIFICATION forming part of Letters Patent No. 606,846, dated July 5, 1898.

Application filed August 17, 1896. Serial No. 603,016. (No model.)

To all whom it may concern:

Be it known that I, OTIS WILSON SNYDER, a citizen of the United States, residing at Lexington, in the county of Fayette and State of Kentucky, have invented new and useful Improvements in Cooking-Stoves, of which the following is a specification.

This invention relates to cooking-stoves, and has for its object to provide a simple, reliable, and inexpensive oven-support and flue brace or lock that will hold the flue-strips securely in place, prevent warping or buckling of the oven-bottom, and permit the oven-flues to be thoroughly and easily cleaned without removal of the oven.

My invention consists in a flue-brace and oven-support of novel construction and in the combination and relative arrangement of parts in a cooking-stove, as hereinafter described and claimed.

In the annexed drawings, illustrating the invention, Figure 1 is a side elevation of a cooking-stove in broken outline and with side plate removed to show the flue-strips and oven and my improved device for supporting and bracing the same. Fig. 2 is an enlarged vertical cross-section of the same. Fig. 3 is a view of the oven-support and flue-brace detached. Fig. 4 is a view of one of the bottom flue-strips.

Referring to the drawings, the numeral 1 designates a cooking-stove, and 2 the oven.

The bottom flue-strips 3 and 4 may have their lower edges set, as usual, in grooves formed in the stove-bottom. Each of these bottom flue-strips is provided in its top edge with a rectangular notch 5 to receive the horizontal portion of a yoke-shaped oven-support and flue-brace 6, having feet 7, through which it is bolted to the bottom of the stove, as shown. The yoke 6 is provided on the under side of its horizontal portion with lugs 8, adjacent to the vertical arms of the yoke and forming therewith recesses 9, that are adapted to interlock with the notches 5 in the upper edges of the bottom flue-strips. This interlocking of the yoke-shaped brace 6 with the notched bottom flue-strips 3 and 4 effectually prevents said flue-strips from falling over and consequently obstructing the oven-flues.

It will be obvious that by notching the top edges of the bottom flue-strips 3 and 4, as de-

scribed, and engaging or embedding the horizontal portion of the yoke-shaped brace 6 in the notches or recesses 5, so that the top of the yoke will be flush with the top edges of the bottom flue-strips, a perfectly even and firm support will be provided for the oven. The horizontal portion of the yoke-shaped support and brace 6 is preferably provided with a central aperture 10, through which may be passed a bolt for securing the oven in place. This manner of supporting the oven and bracing the flue-strips will prevent warping or buckling of the oven-bottom and flue-strips and will permit ready access for thoroughly and easily cleaning out ashes and soot from the oven-flues without requiring removal of the oven.

The yoke-shaped support and brace 6 may be made from wrought or cast iron, steel, or any suitable metal. The oven 2 may have any usual or desired form and may be constructed from any approved material.

Although I have shown but one support and brace 6, it is obvious that two or more may be provided, if desired, the bottom flue-strips 3 and 4 being provided with a corresponding number of notches in which to embed the braces. Each brace may be made any width and thickness desired and will have a height corresponding with the elevation of the bottom flue-strips.

At the rear of the oven are the usual vertical back flue-strips 11 and 12, that may be secured to the back plate of the stove, and to the bottom flue-strips also, in any suitable or approved manner.

As a means for bracing the bottom flue-strips and supporting the oven it has been heretofore proposed to employ bolts extending from the oven-bottom to the stove-bottom and passed through the flue-space. Such bolts are unnecessary with my yoke-shaped oven-support and flue-brace, and I thus avoid obstructing the oven-flues, as is liable to occur with the bolts referred to, which also tend to become softened by exposure to the great heat in the flues, and consequently fail to hold the oven and flue-strips secure. The yoke-shaped brace or braces will securely lock the bottom flue-strips without obstructing the flue-spaces and at the same time a firm and even foundation is afforded for the oven.

What I claim as my invention is—

1. The combination with a cooking-stove, and the bottom flue-strips notched in the upper edge, of a yoke-shaped oven-support
5 and brace secured to the stove-bottom and provided on the under side of its horizontal portion with recesses to engage and lock with the notches in the upper edges of the bottom
10 flue-strips to brace said strips and provide a firm and even support for the oven, substantially as described.

2. The combination with a cooking-stove, of the bottom flue-strips, the vertical back
15 flue-strips, a yoke-shaped oven-support and flue-brace interlocked with the bottom flue-

strips and having the top of its horizontal portion flush with the top edges of said bottom flue-strips, means for securing said yoke to the stove-bottom and an oven supported on said bottom flue-strips and yoke-shaped
20 brace and secured to the latter, substantially as described.

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

OTIS WILSON SNYDER.

Witnesses:

R. S. KINKEAD,

E. D. SOUTHGATE.