

G. B. JOHNSTON & J. ALLEN.
STOVE-PIPE SHELVES.

No. 183,681.

Patented Oct. 24, 1876.

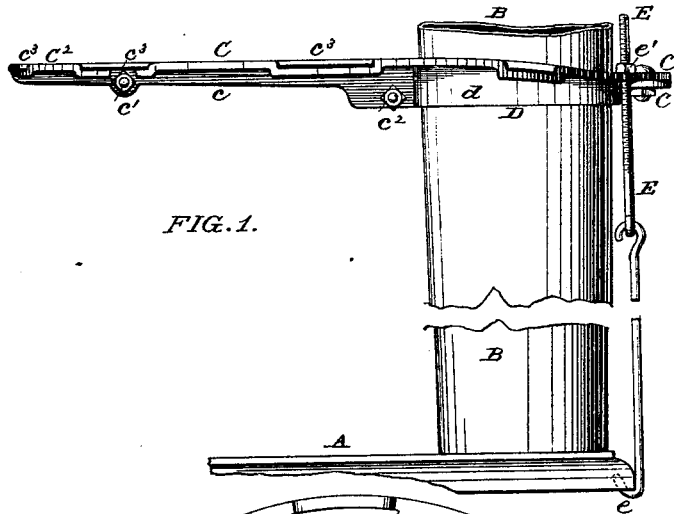


FIG. 1.

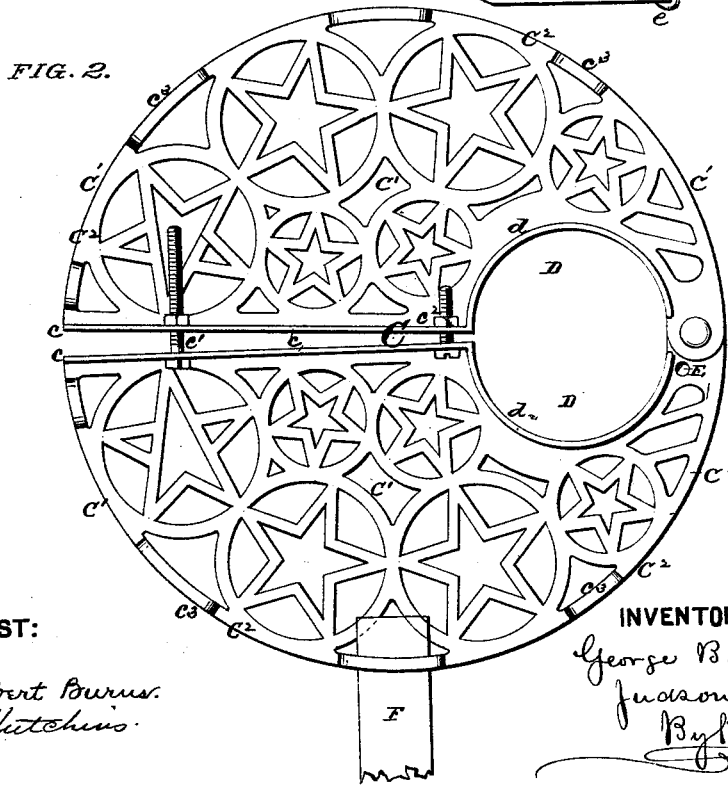


FIG. 2.

ATTEST:

Robert Bourne.
A. Hutchins.

INVENTORS:

George B. Johnston
Jackson Allen
By *By Bright*
Atty.

UNITED STATES PATENT OFFICE.

GEORGE B. JOHNSTON AND JUDSON ALLEN, OF ST. CHARLES, MISSOURI.

IMPROVEMENT IN STOVE-PIPE SHELVES.

Specification forming part of Letters Patent No. 183,681, dated October 24, 1876; application filed February 8, 1876.

To all whom it may concern:

Be it known that we, GEORGE B. JOHNSTON and JUDSON ALLEN, both of St. Charles, in the county of St. Charles and State of Missouri, have invented a new and useful Improvement in Stove-Pipe Shelves, which improvement is fully set forth in the following specification, reference being had to the accompanying drawings.

In this invention the shelf is formed with a portion projecting to the rear of the stove-pipe, through which an adjustable tie-rod or brace passes, and is secured to the top-plate of the stove.

Figure 1 is a side view. Fig. 2 is a bottom view.

A is the top plate of the stove; B is a section of stove-pipe. The shelf C is formed in halves C' C', which are hinged together at the rear. D is the opening for the stove-pipe, the edge of which is formed with a flange, *d*, which is preferably widest at front, as shown, so as to form a firm bearing for the shelf against the pipe, and to hold the parts in proper relative position. The sections C' C' at their division are provided with flanges *c*, through which bolts *c*¹ *c*² pass to draw the sections together and firmly clamp them around the pipe B. The inner bolt *c*² is placed near the lower edge of the flange, for the purpose of preventing the spreading of the lower edge of the flange *d*, which is exposed to the greatest strain. E is an adjustable brace or rod, having a hook, *e*, engaging under the top-plate A of the stove. This rod passes through

an opening in the shelf C, and is secured thereto by the adjustable nut *e*'. This rod may be made in two pieces, as shown, if desired. This rod or brace acts to hold the shelf in a horizontal position, with the stove-pipe as a fulcrum, and it will be seen that with the construction a much heavier weight can be sustained with safety on the shelf than could be supported on a shelf secured in the ordinary manner to the pipe.

The rim *c*² of the shelf C is formed with depressions *c*³, which occur at the open spaces in said shelf, so that the end of a stick, bar, or rod, F, can be introduced on which cloths, &c., to be dried may be hung, or said construction may be used for the attachment of an extension shelf.

It will be observed that the use of the tie-rod E causes a weight placed on the shelf to increase the steadiness of the stove-pipe, instead of tending to pull it down, as would otherwise be the case.

We claim—

1. The combination of the shelf C and tie-bar E, when used substantially as and for the purpose set forth.

2. The combination of tie-bar E with a shelf composed of sections C' C', hinged together at the rear, and having flanges *c c* and *d*, and bolts *c*¹ *c*², as and for the purpose set forth.

GEORGE B. JOHNSTON.
JUDSON ALLEN.

Witnesses:

JNO. E. STONEBRAKER,
J. C. LACKLAND.