

A. J. MILLS.
STOVE-PIPE SHELF.

No. 171,155.

Patented Dec. 14, 1875.

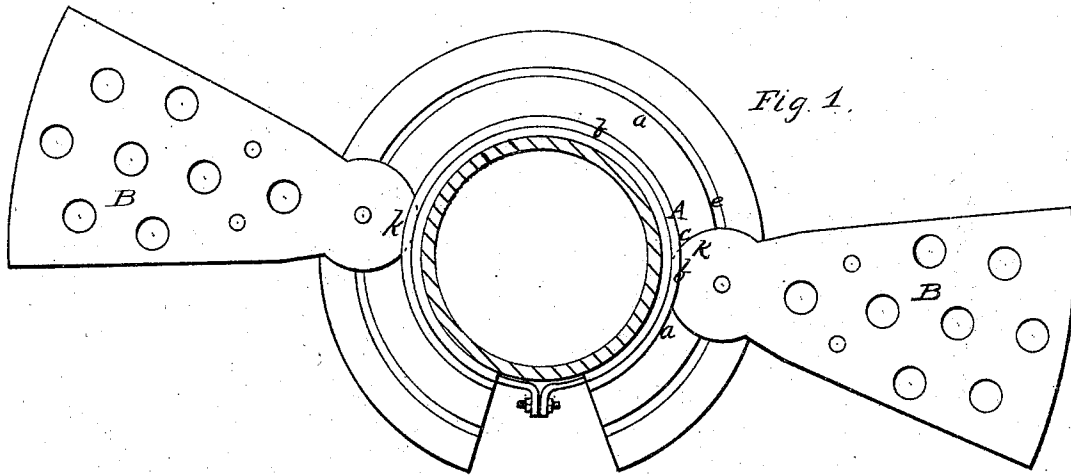


Fig. 1.

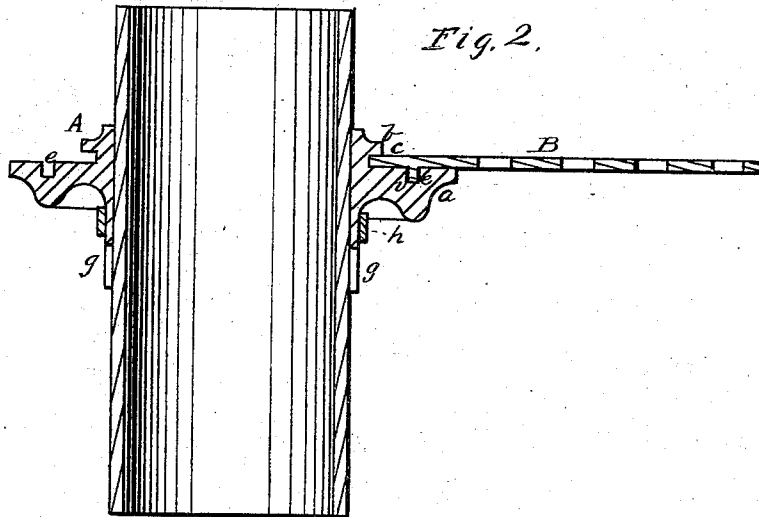


Fig. 2.

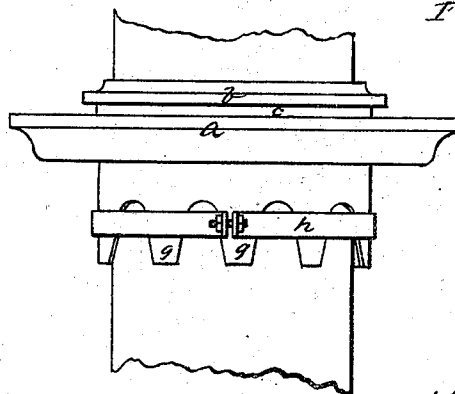


Fig. 3.

WITNESSES

Eug. W. Johnson
George C. Upham.

INVENTOR

Andrew J. Mills
Chipman & Son v Co,
ATTORNEYS

UNITED STATES PATENT OFFICE.

ANDREW JACKSON MILLS, OF SCOTT, ASSIGNOR OF ONE-HALF HIS RIGHT
TO R. FRANK SMITH, OF SENECA FALLS, NEW YORK.

IMPROVEMENT IN STOVE-PIPE SHELVES.

Specification forming part of Letters Patent No. **171,155**, dated December 14, 1875; application filed
May 8, 1875.

To all whom it may concern:

Be it known that I, ANDREW JACKSON MILLS, of the town of Scott, in the county of Cortland and State of New York, have invented a new and valuable Improvement in a Stove-Pipe Shelf; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a horizontal section of a stove-pipe with the shelf attached. Fig. 2 is a vertical central sectional view of the same, and Fig. 3 is a detail view.

This invention has relation to stove-pipe shelves; and it consists in the construction and novel arrangement of the grooved collar, the spring-band clamp, and the removable sliding segment-shelves, all hereinafter fully illustrated and described.

In the accompanying drawings, the letter A designates the collar which is designed to embrace the stove-pipe and form a basis of support for the shelf-sections. This collar is provided with a supporting-flange, *a*, upon which the ends of the shelf-sections rest, and a stop-flange, *b*, above said supporting-flange *a*, designed to engage with the ends of the shelf-sections, as indicated at *c*, where the said ends are represented as inserted into the lateral groove below said stop-flange and above the broad supporting-flange. Into the upper surface of the flange *a* is formed a circular groove, *e*, entirely around the flange, and at about the middle of its width. Below the flange *a* the metal of the collar is extended in the form of independent tongues *g*, which are designed to have some degree of flexibility, so that the compressing action of a spring-band fastening, *h*, will serve to secure the collar to the

stove-pipe. Sometimes it is designed to make the collar open at one point, so that it will give somewhat under the pressure of the encircling band. B B represent the shelves. These are preferably formed in the sector shape, their sides being coincident with radii of the stove-pipe produced. A sufficient number of them placed around the pipe in engagement with the collar will form a complete or annular shelf, or only one or two may be used, as required. The inner ends *k* of these shelf-sections are circularly rounded with reference to a central spur, *v*, which extends downward from the under side, and is designed to engage with the groove *e* of the flange *a*, and prevent the shelf from sliding outward or from under the stop-flange *b*. The circular shape of the end *k* and its concentric relation to the spur *v* prevents disengagement of the shelf-section, whether it be in radial position with relation to the stove-pipe or pushed aside into an oblique or tangential position. The shelf-section is detached by lifting its outer end until the spur *v* is disengaged from its groove, and then drawing the shelf-section outward until its end is released from the groove under the stop-flange.

What I claim as new, and desire to secure by Letters Patent, is—

The stove-pipe shelf herein described, consisting of the sector-plates B, having circular convex ends *k* and pivotal lugs *e*, in combination with the collar A, provided with the groove *e*, lip *b*, and flexible tongues *g*, and spring fastening-band *h*, substantially as described, and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

ANDREW JACKSON MILLS.

Witnesses:

WM. D. HUNT,
W. A. SKELHL.