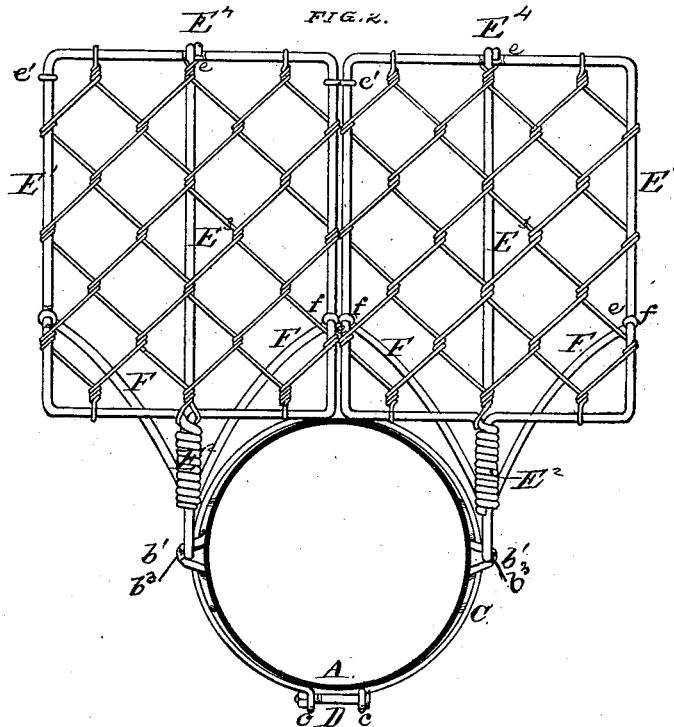
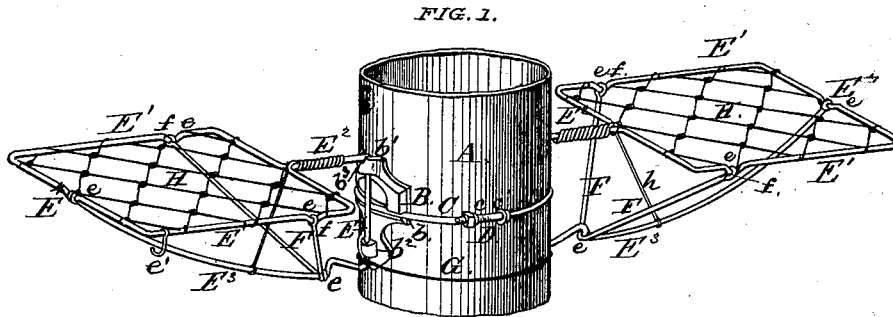


R. G. YONGE.
Stove-Pipe Shelf.

No. 201,081.

Patented March 5, 1878.



ATTEST:
Geo. H. Knight,
Chas. J. Gooch

INVENTOR:
Robert G. Yonge
By Knight Bro.
Atty.

UNITED STATES PATENT OFFICE.

ROBERT G. YONGE, OF ST. LOUIS, MISSOURI, ASSIGNOR OF ONE-HALF HIS RIGHT TO EDWARD D. COE, OF SAME PLACE.

IMPROVEMENT IN STOVE-PIPE SHELVES.

Specification forming part of Letters Patent No. 201,081, dated March 5, 1878; application filed January 21, 1878.

To all whom it may concern:

Be it known that I, ROBERT G. YONGE, of the city of St. Louis and State of Missouri, have invented a certain new and useful Improvement in Stove-Pipe Shelves; of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

My improvement relates to that class of stove-pipe shelves which are so connected to the pipe as to be capable of swinging around to either side.

My improvement consists in forming the shelf of wire, of the construction shown, part of the wire forming the pintle on which the shelf is supported; said pintle passing through a bracket-plate made to fit the pipe upon the inner side and grooved upon the outer side to receive a wire which surrounds the stove-pipe, and which serves to attach the plate to it.

Figure 1 is a perspective view, showing two of the shelves attached at opposite sides of the stove-pipe, and extending radially therefrom. Fig. 2 is a top view, (enlarged,) showing the shelves extending tangentially from the pipe, so that they are side by side and form one large shelf.

A is the stove-pipe. B is a plate whose inner face is curved to fit the pipe. The plate B has a horizontal groove, *b*, in which lies the encircling wire C, which surrounds the pipe, and serves to secure the plate B to it. The ends of the wire C are turned into outwardly-projecting ears *c*, through which passes a screw-bolt, D, by which the ears are drawn together to contract the wire C, upon the pipe. The plate B has ears *b*¹ *b*², through which passes the vertical wire E, which serves as a pintle or spindle, upon which the shelf is supported, and upon which it may be turned. The wire E is bent rectangularly outward at the upper end, and forms the rectangular horizontal frame E¹, and its end E² is brought back and twisted around the shank, as shown, so as to form a firm attachment and stiffen the shank. The lower end of pintle E is bent outward, and the outwardly-extending part E³ forms the longitudinal brace of the shelf the end E⁴ being twisted around the outer bar of the frame E¹ at the middle of said bar.

The lateral braces are made from a separate

piece, F, of wire whose middle is twisted around the brace E³, and whose ends *f f* are twisted around the side bars of frame E¹.

The frame E¹ and the brace-bar E³ have bends *e* at the places where the brace-bars are twisted around them, so as to prevent the braces from slipping, and, in the case of the frame E¹, to prevent the twists from projecting above the level of the frame.

G is a small wire which encircles the pipe and which has a turn around the lower end of the pintle E, so as to assist in holding it in its vertical position.

The frame E¹ supports a net-work, H, of smaller wire, which is stretched upon the frame, and one loop, *h*, of which is extended down from the shank at E², and is twisted around the brace E³, so as to form a tie-brace.

When the shelves project straight outward from the pipe, as shown in Fig. 1, the shank rests in a notch, *b*³, of the ear *b*¹, so as to hold the shelf in this position. To enable the shelf to be turned to either side, the shank must be raised from the notch *b*³. Except for the notch *b*³, the top of ear *b*¹ is flat and horizontal, so that the shelf will remain in any position in which it may be placed; but it is held in the positions shown in Figs. 1 and 2. As shown in Fig. 2, the two shelves stand side by side, the corners of the rectangular frame E¹ resting against the stove-pipe A, and hook *e*, at the outer corner, holding them together. The position of the two shelves on the pipe is such that they can be turned around side by side on either side of the pipe.

I claim as my invention—

1. The combination, with a stove-pipe, A, of the plate B, curved on its inner side to fit said pipe and constructed with a horizontal groove, *b*, ears *b*¹ *b*², and notch *b*³, the encircling-wire C, and the shelf-support E, as and for the purpose set forth.

2. The shelf constructed of a single wire forming a hinge, E, shelf E¹, twist E², and brace E³ E⁴, as and for the purpose set forth.

3. The combination, with the shelf E E¹ E² E³ E⁴, of the brace F, as set forth.

ROBERT G. YONGE.

In presence of—

SAML. KNIGHT,
GEO. H. KNIGHT.