

J. WILLIAMS.
PROOF STAVES.

No. 176,498

Patented April 25, 1876.

Fig: 1.

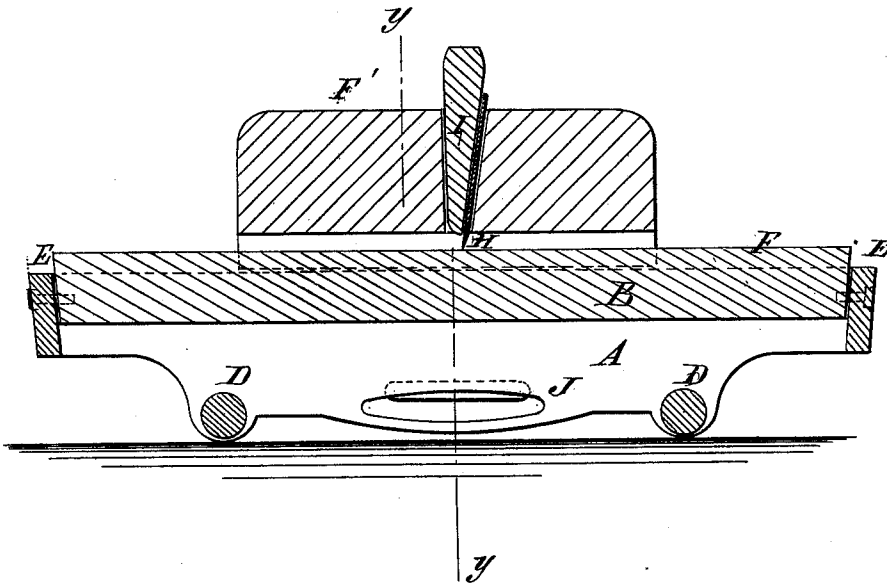
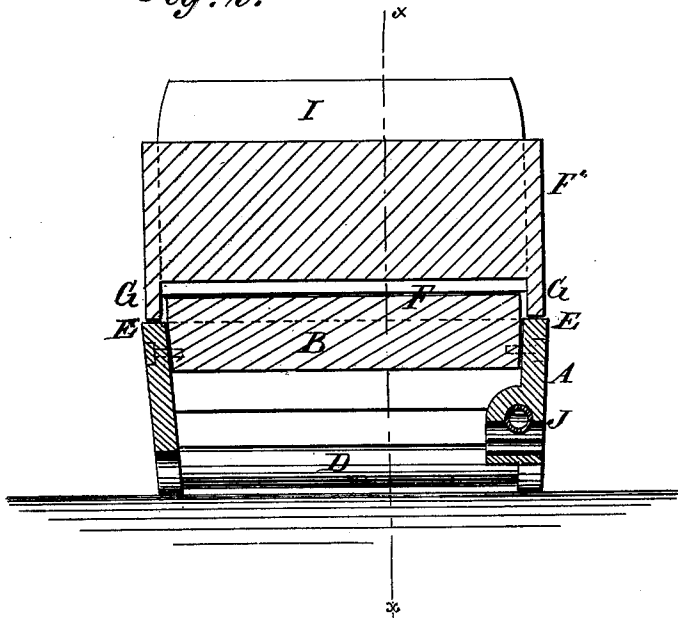


Fig: 2.



WITNESSES:

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JOHN WILLIAMS, OF DRESDEN, ASSIGNOR TO HIMSELF AND GEORGE J. STONEBREAKER, OF FAYETTEVILLE, TENNESSEE.

IMPROVEMENT IN PROOF-STAVES.

Specification forming part of Letters Patent No. **176,498**, dated April 25, 1876; application filed October 31, 1874.

To all whom it may concern :

Be it known that I, JOHN WILLIAMS, of Dresden, in the county of Weakley and State of Tennessee, have invented a new and useful Improvement in a Combined Proof-Staff and Level, of which the following is a specification :

This invention relates to apparatus used by millers and millwrights for keeping burr millstones in order.

The invention consists of a hollow cast-metal frame, having a wood staff secured therein, and the edges of the metal frame planed true, whereby they are adapted to receive and support a scraper or plane, all as hereinafter more fully described.

In the accompanying drawing, Figure 1 is a vertical section of Fig. 2, taken on the line *x x*. Fig. 2 is a vertical cross-section of Fig. 1, taken on the line *y y*.

Similar letter of reference indicate corresponding parts.

A represents a cast-iron frame of suitable length and width.

B is a wooden filling rigidly confined within the frame A, the side or face of which is made to project from the iron frame, as seen in the drawing.

D D are handles of wood or other suitable material, which are confined above the filling (in the frame) by means of which the staff is handled and used.

The back edges E of the iron frame are planed true and straight, by means of which the face F of the wooden filling may be scraped true when, from use, it becomes worn out of true.

The scraper F' is made a little like a joiner's plane. Its side flanges G G are made true and to run on the edges of the flanges E.

H is the steel, which projects so as to bear upon and scrape the face of the wood filling as it is moved back and forth, and is graduated and fastened by means of the wedge I.

The edge of the steel is perfectly straight, so as to leave the face F perfectly true.

The two figures represent the face of the staff up, for the purpose of showing the application of the scraper. When used the face F is placed on the "burr" and is covered with red or other colored paint, which leaves its mark on the more prominent parts of the surface.

J is a spirit-level, by means of which the bed-stone is placed in a level position so that the spindle may stand vertical.

There may be a "plumb" attached to the staff by means of which the spindle may be adjusted to its true position. The ordinary staff for truing the faces of the stones is made of wood, and a proof-staff of metal is used for truing the wooden staff. In this case the scraper F' serves as a proof-staff in combination with the true edges E of the frame A.

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

The hollow cast-metal frame A, having the projecting wood staff B rigidly secured therein, as described, and having its edges E planed true, whereby it is adapted to receive and support a scraper or plane, F', in the manner substantially as and for the purpose specified.

JOHN WILLIAMS.

Witnesses :

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