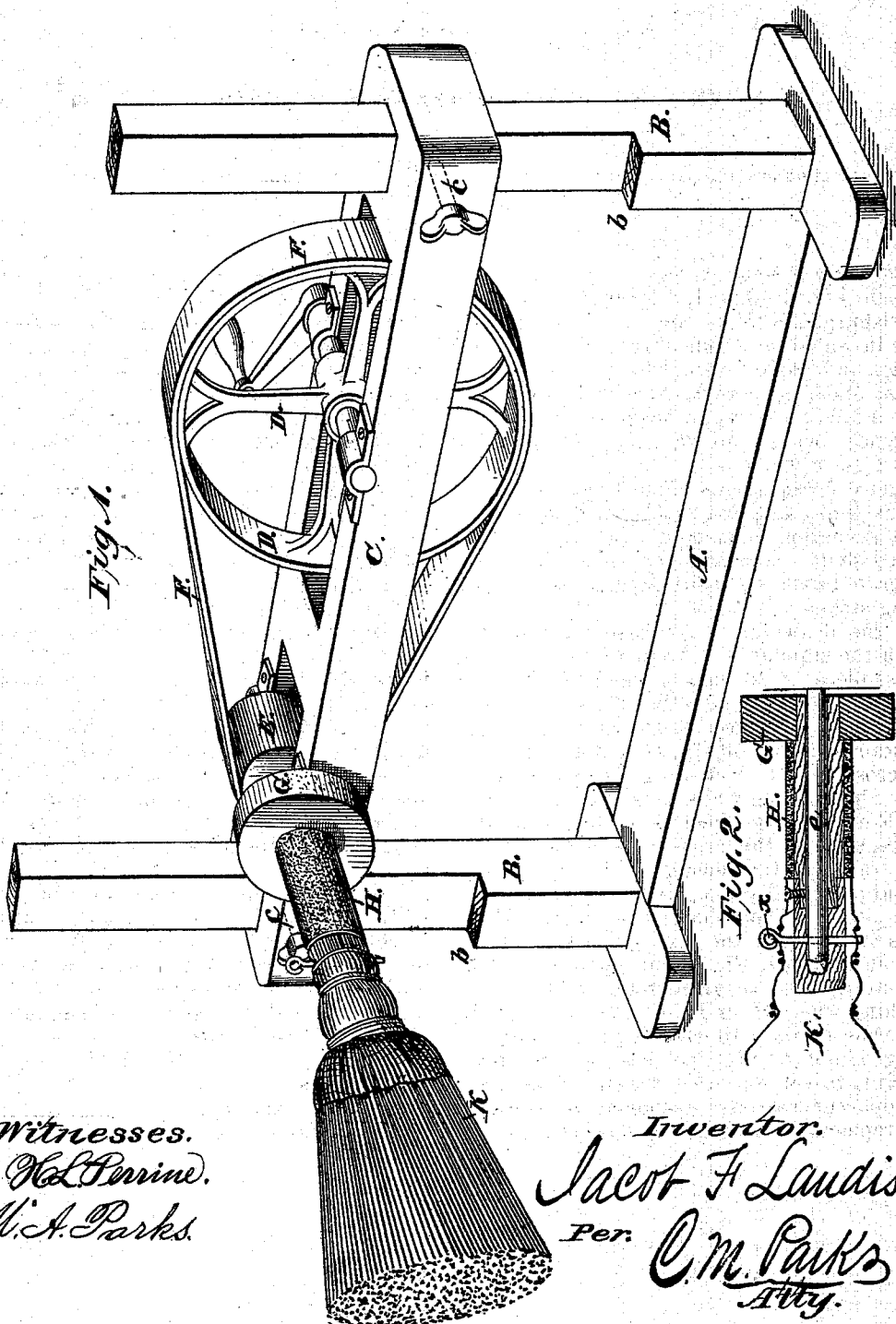


J. F. LANDIS.

Machines for Polishing Stoves.

No. 146,691.

Patented Jan. 20, 1874.



Witnesses.
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UNITED STATES PATENT OFFICE.

JACOB F. LANDIS, OF HARRISBURG, PENNSYLVANIA.

IMPROVEMENT IN MACHINES FOR POLISHING STOVES.

Specification forming part of Letters Patent No. 146,691, dated January 20, 1874; application filed September 20, 1873.

To all whom it may concern:

Be it known that I, JACOB F. LANDIS, of Harrisburg, Dauphin county, Pennsylvania, have invented a Combined Grindstone, Emery-Wheel, and Stove-Polisher for Household Purposes; and I do hereby declare the following to be a full and correct description of the same, reference being had to the accompanying drawings, in which—

Figure 1 represents a perspective view of my machine, and Fig. 2 a detailed section.

My invention consists in attaching to an extended shaft, operated by any suitable motive power, a brush vertically adjustable, for polishing stoves.

In the drawings, A represents a base, into which the standards B are firmly fixed. C is a cross-piece, in the ends of which are mortises to receive the standards B. Thumb-screws *c* secure the cross-piece C at any height upon the standards B, and the shoulder *b* prevents the cross-piece C from dropping so low as to allow the driving-wheel D to touch the base A. D is a driving-wheel, revolving in suitable bearings upon the cross-piece C, and driven by a crank or other means. F is a belt. E is a band-pulley, also hung in bearings upon the cross-piece C. The shaft of the pulley E extends out beyond the cross-piece C upon the side, as seen at *e*, Fig. 2, and upon this extension are placed a grindstone, G, the emery polishing-wheel H, and the broom or brush K. The order of these devices may, of course, be changed; but it will be necessary for the stove-polishing brush to be upon the end of the shaft, for apparent reasons. A means of removing and replacing the brush and wheels is pro-

vided, as is fully shown in Fig. 2. *e* is the extension of the shaft of the pulley E, and *x* is a pin, which passes through the shank of the broom K and the end of the shaft-extension *e*, securing all together, yet allowing any one to be removed.

The operation of my machine is as follows: Power being applied to pulley E, the shaft-extension *e* is made to revolve, carrying the grindstone, polishing-wheel, and polishing-brush with it. Knives or other articles may be ground or polished upon the stone or polishing-wheel in the usual manner. To polish a stove, the frame A B is placed near the stove, and the cross-piece set at a suitable height for the broom to reach the bottom of the side of the stove. As the brush is revolved, the frame is moved around the stove until a strip all around the stove is polished. The cross-piece is then set higher, and another strip is polished, and so on until the whole is finished. The top of the stove may be polished by a different-shaped brush, or by the same brush.

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

The combination of the adjustable frame C, wheel D, band F, pulley E, and extended shaft *e*, adapted to carry a polishing broom or brush for polishing stoves, substantially as described.

The above specification of my said invention signed and witnessed, at Washington, this 18th day of September, A. D. 1873.

JACOB F. LANDIS.

Witnesses:

C. M. PARKS,
THOMAS C. CONNOLLY.