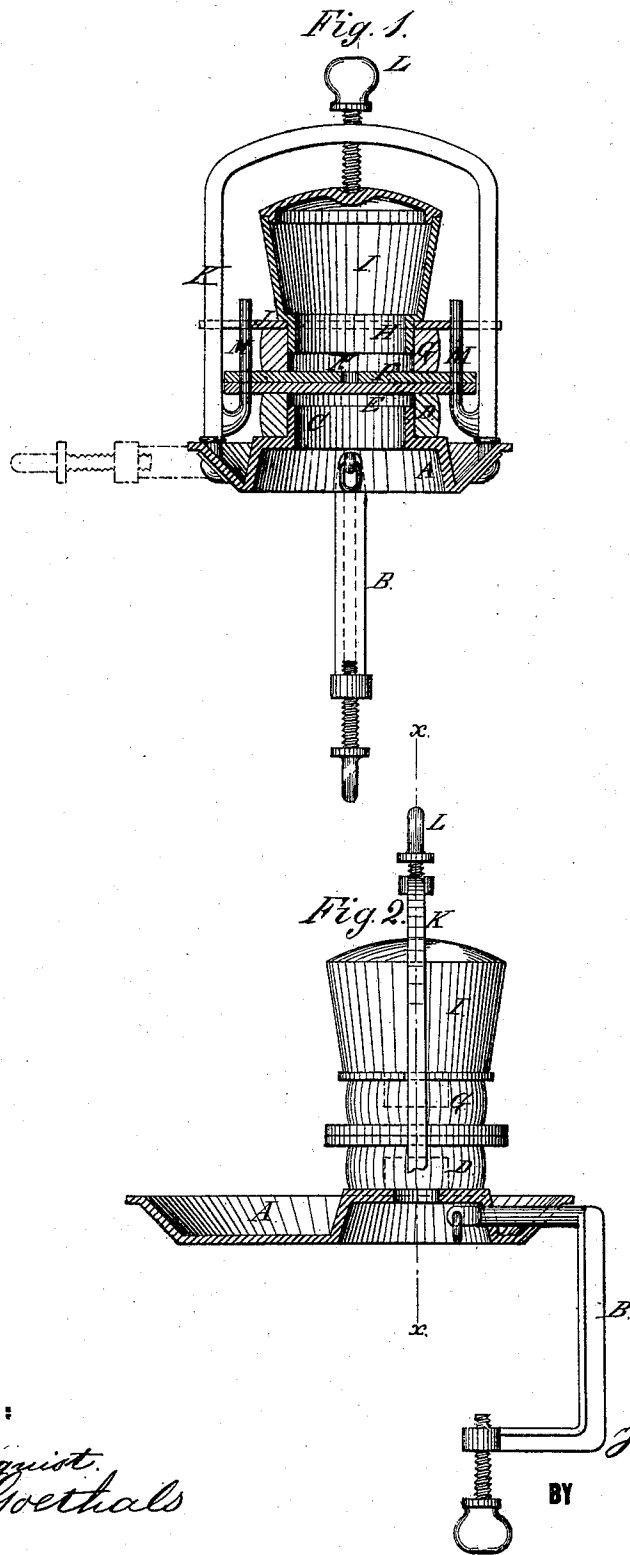


H. SYMONDS.
KNIFE-SCOURING MACHINE.

No. 178,088.

Patented May 30, 1876.



WITNESSES:

H. Rydquist.
John Goethals

INVENTOR:

H. Symonds

BY

Munn & Co.
ATTORNEYS.

UNITED STATES PATENT OFFICE.

HERBERT SYMONDS, OF TROY, NEW YORK.

IMPROVEMENT IN KNIFE-SCOURING MACHINES.

Specification forming part of Letters Patent No. **178,088**, dated May 30, 1876; application filed March 25, 1876.

To all whom it may concern:

Be it known that I, HERBERT SYMONDS, of Troy, in the county of Rensselaer and State of New York, have invented a new and Improved Knife-Polisher, of which the following is a specification:

The invention is an improvement in the class of knife-polishers in which the polishing-powder is fed downward to the polishing-pads from a reservoir. The improvement relates to the construction and arrangement of parts, as hereinafter described.

Figure 1 is a sectional elevation of my improved knife-polisher, taken on the line *x x* of Fig. 2; and Fig. 2 is a side elevation.

Similar letters of reference indicate corresponding parts.

A is the base of the machine, which is adapted to set on a bench or table, and has a clamp, B, said clamp being pivoted to the base, so that it will turn up sidewise to allow the machine to be set down on the top of a table, and to allow the base to set fairly on the table or bench when clamped to it. From the upper side of the base rises a ring or flange, C, around which a ring-shaped rubber spring, D, is fitted to hold the lower leather polishing-pad E. The upper pad F rests on E, and is pressed down on it by a similar ring-shaped rubber spring, G, which is fitted on the neck H of the powder-box I, under the guide-plate J, which is fitted to the frame K so as to work up and down as the springs

shift, and at the same time keep the upper spring and the bottom of the powder-box in place. The pressure is applied to the pads by the screw L, screwing down through the top of the frame K, on the top of the powder-box. A spring may be used instead of the screw, if preferred, but it is believed that the screw will be the best, as it can be adjusted at will to vary the pressure. The polishing-pads are kept in position by the long studs M, extending up along the frame K, from its base. The rubber springs of the form represented are better than other springs for this purpose, because they press the pads alike, whatever may be the form of the blade. The upper pad has a hole, N, in the center to allow the powder to feed down from the box above.

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

1. The combination, with the flanged base A, frame K, and stud-pins M, of the box I, set-screw L, guide-plate J, rubber springs D G, and interposed pads E F, as shown and described.

2. The combination, with the cup-shaped base A, of the pivoted clamp B, as shown and described.

HERBERT SYMONDS.

Witnesses:

W. R. MCCracken,
DANIEL DATER.