

R. Shaler,
Cutlery Scourer.
N^o 5,941. Patented Nov. 28, 1848.

Fig. 1.

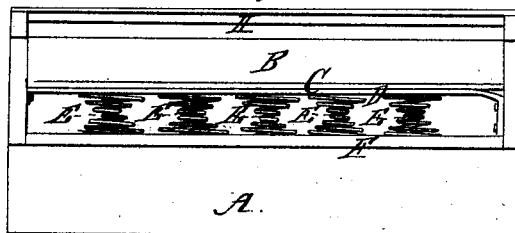
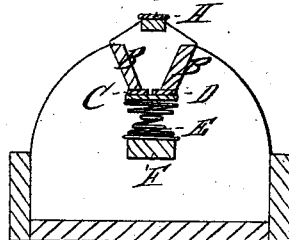


Fig. 2.



UNITED STATES PATENT OFFICE.

REUBEN SHALER, OF MADISON, CONNECTICUT.

KNIFE-POLISHER.

Specification forming part of Letters Patent No. 5,941, dated November 28, 1848; Reissued August 10, 1858, No. 580.

To all whom it may concern:

Be it known that I, REUBEN SHALER, of Madison, in the county of New Haven and State of Connecticut, have invented a new and useful Improvement on the Machine for Scouring and Polishing Knives and Forks, the construction and operation of which is described as follows, reference being had to the annexed drawings of the same, making a part of this specification.

In the construction of my machine I first provide a box A Figure 1 (see the accompanying drawings). This box may be of any suitable size—say one foot long four inches wide and the sides two inches high; but the ends should be three inches higher than the sides for the purpose of forming the ends to the hopper B. The sides of the hopper are two inches high and extend from one end of the box to the other and are there permanently fastened in a situation to have the hopper over the center of the box. The opening of the hopper at the bottom may be about one third of an inch but considerably wider at the top. The opening at the bottom of the hopper, and the thickness of the stuff of which the sides are made, should make about one inch and a half, and that whole space namely (the bottom of the hopper and the opening in the hopper) should be covered with leather (or some other flexible material) as shown at C. Through the center of this leather directly in the line of the opening in the bottom of the hopper are perforated a series of holes. Underneath the leather C is extended a second piece of leather, D, in dimensions exactly corresponding with the leather C, but without the series of holes. This second piece of leather extends from one end of the box to the other and being there fastened by screws or otherwise—is entirely independent of the leather C, except it is made to press against it by a series of metal springs E, E, E, E, which rest upon a string piece F, extending the whole length of the box situated one inch below the leather D, and fastened to the ends of the box A. This

string piece may be about the width of the leather D, and of sufficient strength to sustain the pressure of the springs E, E. The upper ends of which press against the leather D. (The springs are made in the form of those used in sofa seats.) An elastic substance like india rubber will produce the same effect. A short distance above the hopper B, is extended a string piece H, permanently attached to the ends of the box A and directly over the center of the hopper B, the upper surface of which is covered with leather.

I contemplate making these machines of both wood and iron.

The operation.—In polishing knives and forks in my machine I put into the hopper B a quantity of scouring or polishing material, such as fine emery or pulverized bath brick. I then pass the parts of the knife or fork to be scoured or polished in between the two pieces of leather and motion it backward and forward by the handle till polished. That part of the fork which cannot be polished between the leathers is finished on the string piece H. In consequence of the motion of the knife, between the two pieces of leather, the emery or pulverized brick will pass through the holes in the leather C, to the inward surfaces of the two strips of leather, from thence it falls into the box and may be again returned to the hopper when desired.

After thus fully describing the construction and operation of my machine, what I claim as new, as my improvement, and desire to secure by Letters Patent is—

The apparatus within described for supplying the inward surfaces of the two pieces of leather with the scouring or polishing material used for that purpose, the operation and construction being substantially as herein set forth.

REUBEN SHALER.

Witnesses:

HENRY L. SHALER,
WM. A. CHITTENDEN.