E. A. BUSHELL.

Knife Sharpener and Polisher.

No. 168,717. Patented Oct. 11, 1875.

Fig. 1.

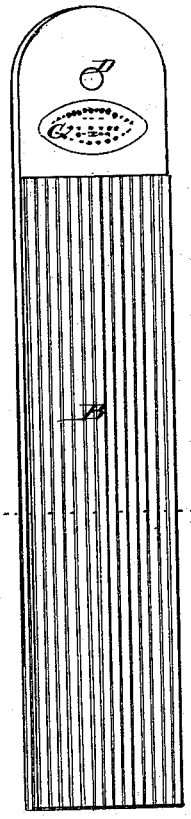

Fig. 2.

Attest,

L. C. Tuck

John H. Redstone

Inventor,

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UNITED STATES PATENT OFFICE.

EDWARD A. BUSHELL, OF OAKLAND, CALIFORNIA.

IMPROVEMENT IN KNIFE SHARPENERS AND POLISHERS.

Specification forming part of Letters Patent No. **168,717**, dated October 11, 1875; application filed October 10, 1873.

To all whom it may concern:

Be it known that I, EDWARD A. BUSHELL, of Oakland, in the county of Alameda and State of California, have invented a Knife Scourer and Polisher, of which the following is a specification:

The object of my invention is to scour and polish alternately over the same surface, regulating the same by the amount of pressure applied, and to avoid the use of moisture or anything having a tendency to rust the knife.

The nature of my invention will be more fully understood by reference to the accompanying drawing.

Figure 1 is a plan, and Fig. 2 a sectional view, showing the construction of the polisher, having a ribbed or corrugated surface of india-rubber, with flour of sulphur incorporated, constructed with alternate ridges and grooves, being equal hollows and rounds, which, when obverted or placed face to face, fit the rounds to the hollows of each. This surface of rubber and emery compound is securely attached to a body of wood constructed as shown in the drawing.

The object of the ribbed surface is twofold: First, the hollows are designed to hold the loose powder of emery or other sharp polishing-powder, and prevent the same from being swept off by the knife. Secondly, to secure a fine polishing-surface upon the higher part of the ridges, as will be shown. It will be seen that the coarse portion of the emery or other polishing-powder falls and remains in the grooves.

The following is the operation of scouring and polishing knives: The powder is sifted or properly distributed over the surface of the polisher, the coarser portion remaining in the grooves. The knife is first pressed firmly down upon the surface. The ridges yielding allows the same to bear upon the coarser emery in the grooves, which quickly scours and sharpens it. When sufficiently scoured it is drawn quickly and lightly over the surface of the ridges, (which contain only the fine emery,) and all the scratches are removed, and a very fine polish secured.

The advantages of this arrangement are seen in the fact that the amount of polishing or scouring surface used is regulated by the degree of pressure applied with the knife. The elastic or yielding nature of the ridges under pressure allows the knife to bear upon the coarse powder contained in the grooves; and by lightly and quickly drawing the knife over the ridges only the fine emery that is incorporated in the india-rubber, and the fine dust that adheres to the rubber, are brought into contact with the knife, thus removing all the scratches, and leaving a fine and beautiful polish.

When not in use the emery is swept from the grooves into a box or other receptacle to prevent waste.

Having thus described my invention, what I claim is—

The above-described knife-scourer, having a corrugated elastic surface, and provided with a scouring material, in the manner set forth.

EDWARD A. BUSHELL.

Witnesses:

J. C. TUCK,

JOHN H. REDSTONE.