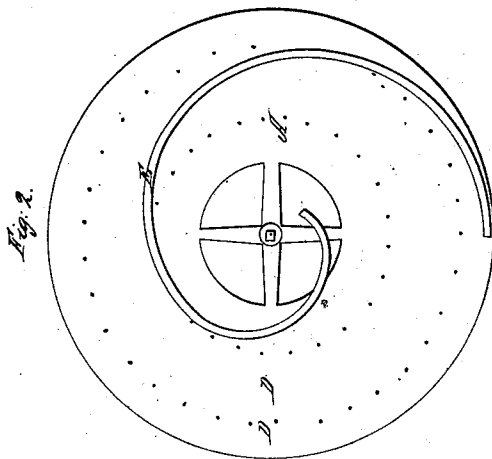
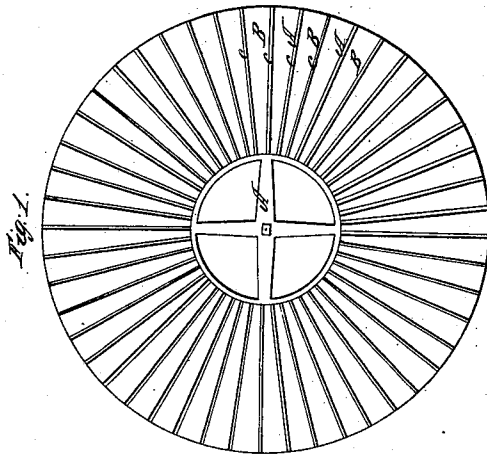
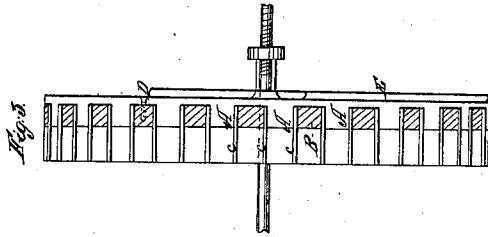


W. Vine,  
Cutlery Polisher.

No. 4,875.

Patented Dec. 5, 1846.



Inventor:  
Wm. Vine

# UNITED STATES PATENT OFFICE.

WM. VINE, OF NEW YORK, N. Y.

## IMPROVEMENT IN MACHINERY FOR POLISHING KNIVES, &c.

Specification forming part of Letters Patent No. 4,875, dated December 5, 1846.

*To all whom it may concern:*

Be it known that I, WILLIAM VINE, of the city of New York, in the county and State of New York, have invented a new and useful Improvement to a Machine for Cleaning and Polishing Cutlery, (Letters Patent for which said machine were granted to me on the 28th February, 1844;) and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the said improvement, reference being had to the annexed drawings, making a part of this specification, in which drawings—

Figure 1 is a view of the face of the polishing-wheel of said machine. Fig. 2 is a view of the back of said wheel, showing the spiral feeder and the method of taking up and supplying the polishing-powder to the face of the wheel, at or near the center of the same, while revolving. Fig. 3 is a view of the edge of the wheel, showing the method of putting in and fastening the leathers to the same.

The nature of my improvement consists in the peculiar shape of the wheels and the method of fastening on the leathers to the same, and the method of feeding the same while revolving by the spiral feeder, and the method of constructing and fixing the same at the back of the wheels, the original method of nailing on the leathers having this objection, that when in use, if the wheels should, by design or inadvertence, be turned backward, it either pulls off the leathers or is liable to break the articles introduced into the machine to be cleaned or polished. To obviate this difficulty I make a metallic (or other) plate or wheel, as shown in plans 1, 2, and 3, (either made solid

or open,) letter A. I then make wedges of wood or metal, of suitable size and shape, B. I then put in two strips of leather, C, into each of the grooves or channels of the wheels, drive in the wedges, and fasten them with a screw to each, D, from the back of the wheel, thus firmly fastening in the leather or other substance, leaving as much extended loose on the face as the nature of the case may require. The leather C, thus standing perpendicular, and being elastic and yielding, may be turned either way with safety. This method does away with the use of nails, which are apt to get out and injure the machine or the articles used. The leathers are also more easily replaced or repaired.

The principal improvement, as shown in the drawings, Fig. 2, letter E, is a simple metallic spiral gutter or feeder, which, as the wheels revolve, takes up the polishing-powder at the outer end, and then follows the spiral curve and empties itself into at or near the center of the face of the wheels, causing an incessant and gradual supply to the face of the wheels, which, by the centrifugal force, will be evenly dispersed over the whole surface of the wheels to any extent.

What I claim as my invention and improvement, and desire to secure by Letters Patent, is—

The combination of the spiral feeder, arranged and operating substantially as herein set forth, with the polishing-wheels.

WM. VINE.

Witnesses:

GEORGE VINE,  
THOS. MAYNARD.