

W. L. WASHBURN.

Grinding Apparatus.

105392

PATENTED JUL 12 1870

Fig. 1.

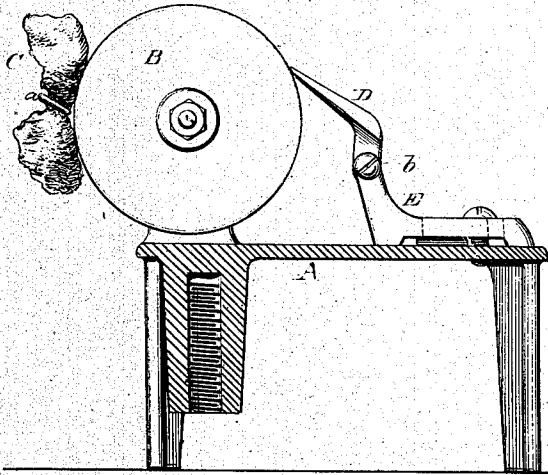


Fig. 3.

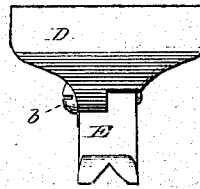
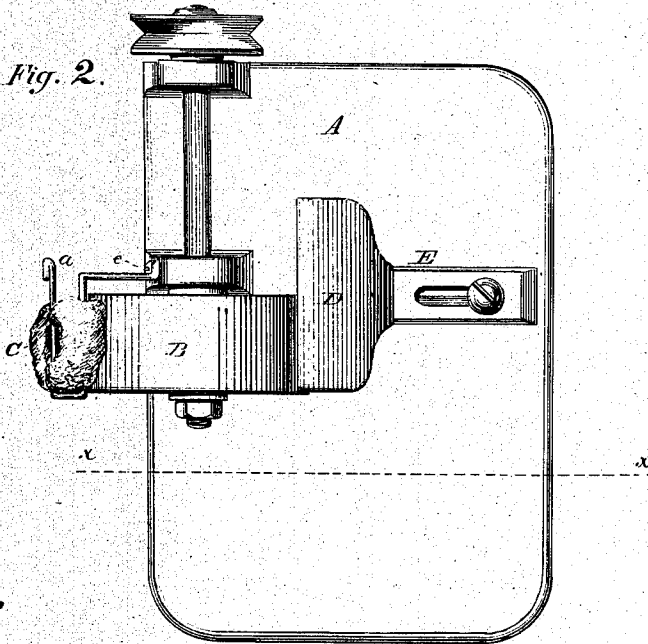


Fig. 2.



Witnesses,  
L. Hailer  
Phil. S. Dodge

Inventor,  
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# United States Patent Office.

WILLIAM L. WASHBURN, OF NEW YORK, N. Y.

Letters Patent No. 103,392, dated July 12, 1870.

## IMPROVEMENT IN GRINDING APPARATUS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, WILLIAM L. WASHBURN, of New York, in the county of New York and State of New York, have invented certain Improvements in Grindstones for household use, of which the following is a specification, reference being had to the accompanying drawing.

My invention relates to a grinding apparatus, intended to be used in connection with sewing-machines; and

The invention consists in making the rest adjustable, and in an attachment for applying moisture to the stone and keeping the latter clean, all as hereinafter explained.

Figure 1 is a side elevation, shown partly in section, on the line  $x x$  of fig. 2, and

Figure 2 is a top plan view of the apparatus, with my improvements applied.

My invention has for its object to render more perfect the apparatus heretofore patented to Chattaway & Dickenson, and to that end I first make the rest which supports the article, while being ground, in two parts, D and E; these parts being connected by a hinge-joint with a screw,  $b$ , as represented in figs. 1, 2, and 3, so that by loosening the screw  $b$  the part D can be adjusted to any required height where it may be fastened by simply tightening the screw. In this way the rest can be raised or lowered, so as to grind the blades of scissors and similar articles at any desired angle more or less acute, as may be required, the back of the blade being laid flat on the top of the rest. The lower part E of this rest has a V-shaped groove formed in its under face to fit upon a corresponding projection upon the face of the table, to prevent it from being turned sidewise, and to guide it as it is moved to or from the stone; and it has a longi-

tudinal slot formed vertically in it, through which a screw,  $o$ , passes and screws into the table A, to hold the rest in place, and by which to adjust it longitudinally, as desired.

Where an apparatus of this kind is used on a sewing-machine table, or in any similar position, it will not do, for obvious reasons, to apply water to it in such a manner as to drip from or onto the stone, and if the stone be used dry it will soon become glazed on its surface, and will cease to grind or cut the metal to advantage. To avoid these difficulties, and keep the surface of the stone clean and moist, I provide a metal arm,  $a$ , bent in the form of a hook or loop, as shown in fig. 2, and secure it to the bed or frame A by means of a screw,  $e$ , or in any suitable manner. In the loop of this arm  $a$  I place a piece of sponge, C, in such a position as to be in contact with the face of the stone B, as represented in figs. 1 and 2. By wetting this sponge I keep the face of the stone moist and clean, and prevent it from becoming glazed. Care should be taken not to saturate the sponge to too great an extent, or the water will drip from it and soil the table or articles thereon.

Having thus described my improvements,

What I claim as of my invention is—

1. The adjustable rest, consisting of the part E, provided with the V-shaped groove and slot, and having the part D hinged thereto by the set-screw  $b$ , all as herein described.

2. The spring-arm  $a$ , when constructed and arranged substantially as described, for holding the sponge C, as set forth.

WILLIAM L. WASHBURN.

Witnesses:

JOHN T. POPE,  
G. M. THOMPSON.