W. T. JAHNE & C. H. WHITE.

ROLLER RAZOR-SHARPENER.

No. 191,859 Patented June 12, 1877.

Fig. 1

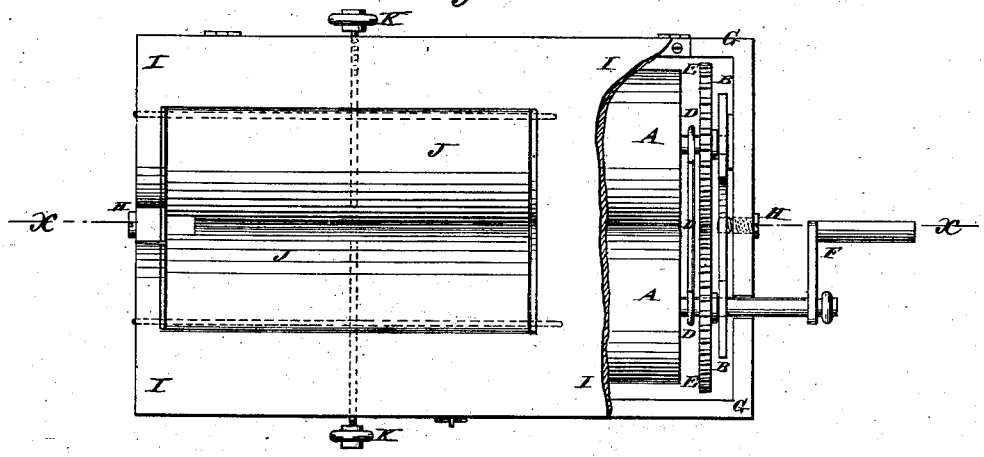


Fig. 2

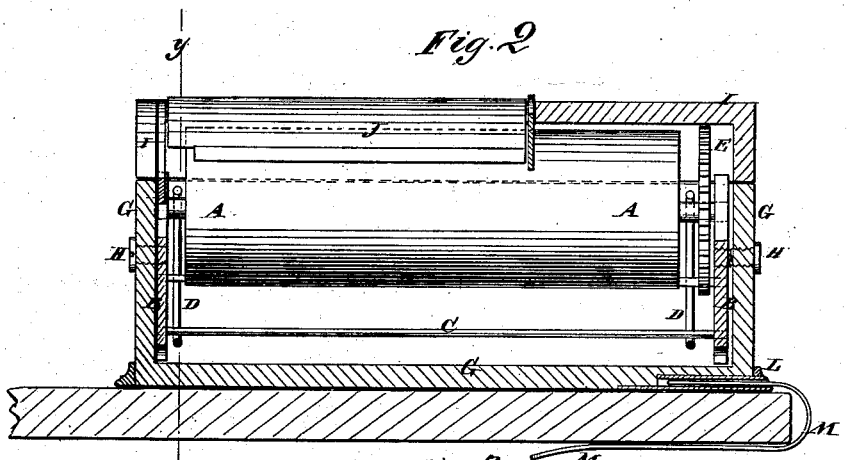
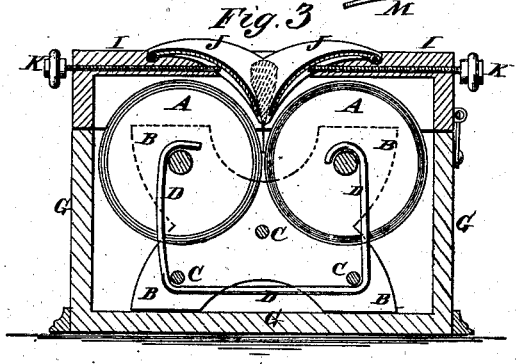


Fig. 3



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UNITED STATES PATENT OFFICE.

WELMER T. JAHNE AND CHARLES H. WHITE, OF JERSEY CITY, N. J.

IMPROVEMENT IN ROLLER RAZOR-SHARPENER.

Specification forming part of Letters Patent No. **191,859**, dated June 12, 1877; application filed May 5, 1877.

To all whom it may concern:

Be it known that we, WELMER T. JAHNE and CHARLES H. WHITE, of Jersey City, in the county of Hudson and State of New Jersey, have invented a new and useful Improvement in Roller Razor-Sharpener, of which the following is a specification:

Figure 1 is a top view of our improved machine, part being broken away to show the construction. Fig. 2 is a vertical longitudinal section of my improved device, taken through the line *x x*, Fig. 1. Fig. 3 is a vertical cross-section of the same, taken through the line *y y*, Fig. 2.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish an improved device for sharpening razors, which shall be simple in construction, convenient in use, and effective in operation, sharpening the razor quickly and evenly.

The invention will first be described in connection with the drawing, and then pointed out in the claims.

A are two wooden rollers, which are covered with leather, and have emery-flour applied to them. The rollers A are placed side by side, and their journals revolve in holes in metal plates B, which are connected together by rods C. The holes for the journals of one or both the rollers A are elongated horizontally, so that they may move apart to receive a thicker blade.

The rollers A are held together to bear against the sides of the blade by U-springs D, which pass around the rods C, and the ends of which are connected with the journals of the said rollers.

To the journals of the rollers A are attached gear-wheels E, the teeth of which mesh into each other, so that the said rollers may revolve together and in opposite directions to grind both sides of the blade equally.

The journals of one of the rollers A project, and to its end is attached the crank F, by which the machine is operated.

The parts thus far described are placed in a wooden box, G, where they are secured in place by screws H, passing in through the ends of the said box G, and screwing into the plates B, the journal to which the crank F is attached entering a notch in the end of the said box G.

The box G is provided with a cover, I, which is hinged to one side of the box G, and and is secured to the other side, when closed, by a hook and staple.

The cover I has a wide longitudinal slot formed in it, is recessed along the sides of said slot, and has the edges of two curved plates, J, pivoted to it along the shoulders of said recesses. The inner edge of the plates J projects through the slot in the cover I into the space between the upper parts of the two rollers A, to guide and center the blade while being ground. The plates J are covered with leather to prevent the blade from being dulled by accidental contact with said plates.

The inner edges of the plates J are adjusted according to the thickness of the blade by two long set-screws, K, which pass in through the cover I, and their forward ends rest against the inner sides of the plates J, as shown in Fig. 3, and in dotted lines in Fig. 1.

In the end of the bottom of the box G is formed, or to it is attached, a socket, L, to receive the end of the short arm of the U-spring M, the long arm of which is designed to pass beneath the table upon which the machine is placed, to hold the said machine steady while being used.

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

1. The combination of the rollers A, covered with leather and coated with emery-flour, the plates B, the rods C, the springs D, the gear-wheels E, and the crank F, with each other, substantially as herein shown and described.

2. The combination, with box G, of the socket L and U-spring M, substantially as and for the purpose specified.

3. The combination of the pivoted, curved, and leather-faced plates J with the slotted cover I and the rollers A, substantially as herein shown and described.

4. The combination of the set-screws K with the slotted cover I and the curved plates J, substantially as herein shown and described.

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Witnesses:
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