L. GUEX.
Knife-Cleaning Apparatus.

No. 207,514. **Patented Aug. 27, 1878.**

Fig. 1

Fig. 4.

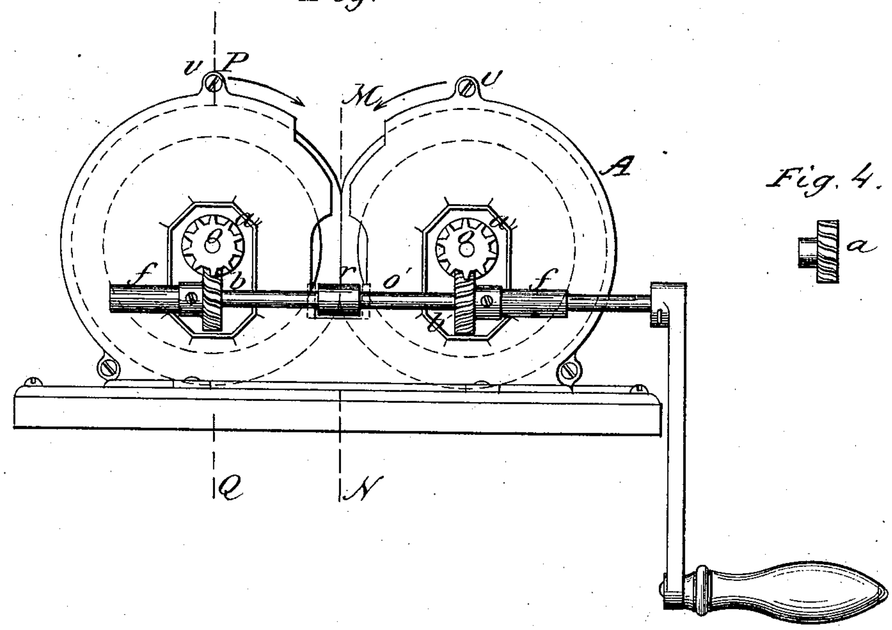


Fig. 2.

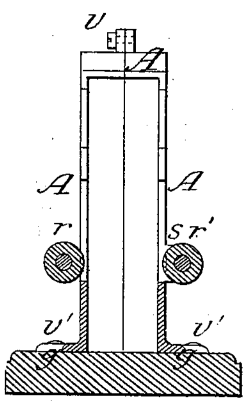


Fig. 5

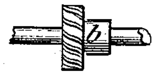
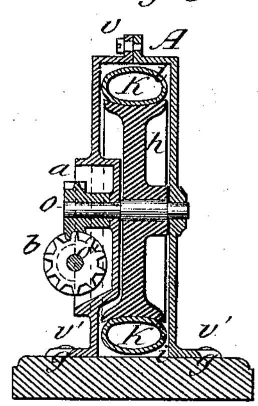


Fig. 3.



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LOUIS GUEX, OF PARIS, FRANCE.

IMPROVEMENT IN KNIFE-CLEANING APPARATUS.

Specification forming part of Letters Patent No. **207,514**, dated August 27, 1878; application filed April 19, 1878.

To all whom it may concern:

Be it known that I, LOUIS GUEX, of No. 23 Boulevard de Strasbourg, Paris, France, have invented an Improved Apparatus for Cleaning Knives, of which the following is a specification:

For the purpose of cleaning the blades of knives, I have constructed a mechanical apparatus which consists in the special arrangement of two disks or wheels with flexible or elastic coverings on their peripheries, and revolving one against the other tangentially, so that a knife-blade interposed between these cylinders is cleaned simultaneously on its two sides by the friction of the leather or other material which covers each of the disks on their circumferences. This leather or covering may be sprinkled with cleaning and polishing powder, and specially with the ordinary brick-dust employed for knife-cleaning. This arrangement of my apparatus, also the action of the mechanical parts which put the disks in motion, are fully shown with reference to the annexed drawings, as follows:

Figure 1 is an elevation of the apparatus. Fig. 2 is a vertical section through the line M N. Fig. 3 is a vertical section by the axis of one of the disks through the line P Q.

On each of the two parallel axles O is a cleaning-disk. Each of the disks is partly inclosed in a circular box, A, of wood, brass, or other metal or material, cut out at that part where the point of tangence of the cleaning-disks is situated, as seen in Fig. 1.

For the purpose of putting the disks in motion, I arrange on each of the axles O a toothed pinion, *a*, (shown separately in side view in Fig. 4,) into which gears another pinion, *b*, on an axle, O′, furnished with a handle, *m*. This axle revolves in sleeves or sockets *f*, soldered to the boxes A. One of the pinions *b*, which have a diameter double that of the pinions *a*, is shown in side view, Fig. 5.

The two cleaning-disks revolve in opposite directions by reason of the gearing arrangement, so that the knife-blade engaged between the disks constantly tends to be drawn in by the rotary motion. It also always bears on the little roller *r* of the axle O′ and the second roller, *r′*, which turns freely between supports *s*, fixed to the box A.

When the box A is of iron or bronze it is preferably molded in two parts, fastened by screws *v*, as seen in Figs. 2 and 3, for supporting the pinions *a*.

The box of the disk has flanges or feet *g* cast on it, which, by means of the screw *v′*, are secured to a table or board.

The cleaning-disk is formed (see Fig. 3) of a plate, *h*, preferably of metal, on the circumference of which is arranged a ring formed of an india-rubber tube, K. On this hollow ring is laid a band of chamois-leather, *i*, or other suitable material. A similar band may be interposed, if necessary, between the hollow ring K and the disk *h*.

This disk, when of metal, is keyed directly on the axle O; when of wood, it is fixed to the axle O by means of a metal plate screwed on it, whose socket is fixed to the axle by means of a pin.

The skins covering the disks are sprinkled with cleaning-powder. For that purpose I may arrange a powder-funnel on one or on both of the boxes.

I am aware that a knife-cleaning apparatus consisting of two cylinders having their axes parallel, revolving in opposite directions, and so as to operate upon both sides of a blade placed between them, is well known, and therefore do not broadly claim such an apparatus.

I claim—

In a knife-cleaning apparatus, the combination of the two revolving disks *h*, arranged with their axes parallel to each other, an elastic edge, K, on said disks, toothed pinion *a* on each of said disks, the axle O′ at right angles to the axis of said disks, and pinions *b* on said axle, corresponding to and working in said pinions *a*, all substantially as shown and described.

In testimony whereof I have signed my name to this specification before two subscribing witnesses.

LOUIS GUEX.

Witnesses:

CHARLES MARDELET,

ROBT. M. HOOPER.