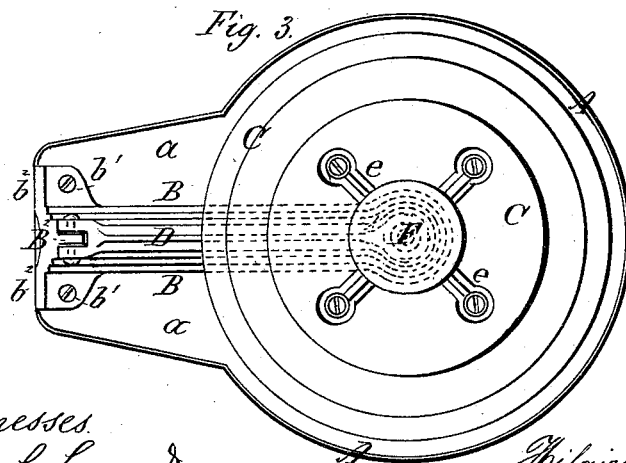
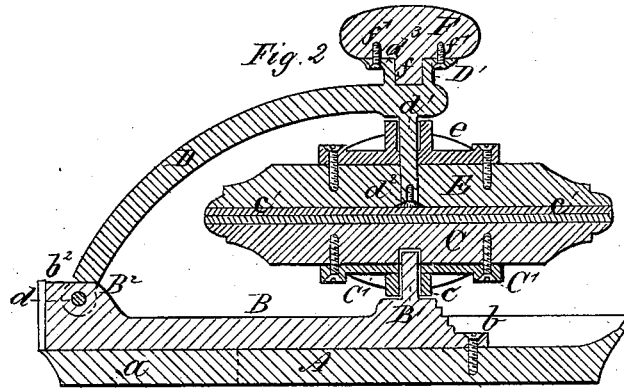
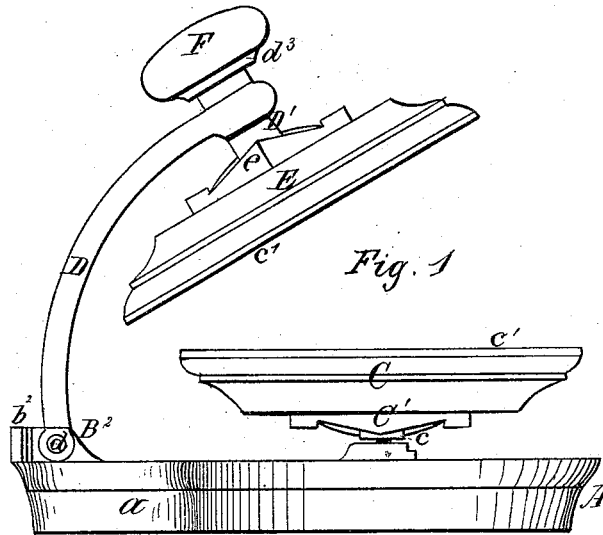


H. P. T. D. de St. LEGER.  
Cutlery-Scourer.

No. 217,714.

Patented July 22, 1879.



Witnesses  
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# UNITED STATES PATENT OFFICE.

HILAIRE P. T. DUCHESNE DE ST. LEGER, OF POITIERS, FRANCE.

## IMPROVEMENT IN CUTLERY-SCOURERS.

Specification forming part of Letters Patent No. 217,714, dated July 22, 1879; application filed December 30, 1878.

*To all whom it may concern:*

Be it known that I, HILAIRE PHILIPPE THEBOTIME DUCHESNE DE ST. LEGER, of the city of Poitiers, in the Department of Vienne and Republic of France, have invented new and useful Improvements in Apparatus for Scouring Knives, of which the following is a specification.

My invention consists, principally, in the combination of two pivoted disks, provided with a facing of felt or other similar material, between which the knives are scoured, as fully described hereinafter, and shown in the accompanying drawings, in which—

Figure 1 is a side elevation, showing the upper disk of the knife-scourer raised. Fig. 2 is a vertical longitudinal section of Fig. 3, and Fig. 3 is a plan view of a knife-scourer constructed according to my invention.

Similar letters of reference are employed to indicate corresponding parts wherever such may occur in the above-recited figures of the drawings.

A is a circular saucer-shaped base-plate, provided with a lateral arm, *a*, upon which and the plate A the scouring devices are mounted. B is a metallic support, screwed to plate A at *b* *b*<sup>1</sup>. The support B carries upon its forward raised end a pin or stud, B<sup>1</sup>, and is provided upon its rear end with a perforated lug or ear, B<sup>2</sup>, formed upon a vertical projection, *b*<sup>2</sup>, of the support, which is of such a length that when it is screwed in position the pin or stud B<sup>1</sup> will be located in the center of the circular portion of the plate A.

The pin B<sup>1</sup> supports a disk, C, secured to a four-armed support, C', provided with a central bearing or sleeve, *c*, by means of which it is supported on the pin B<sup>1</sup>. The diameter of the sleeve *c* is slightly greater than that of the pin B<sup>1</sup>, so as to permit of a revolving and rocking motion of the disk to change its position and assure perfect contact with a second disk, hereinafter referred to, when the knife-blade is placed between them. The upper face of the disk C is provided with a felt facing, *c'*, glued, cemented, or otherwise secured thereto; or, instead of felt, some other soft and yielding material of close texture may be employed.

D is a curved arm, pivoted at *d* to the support B by means of the perforated lug or ear

B<sup>2</sup>, the lower end of the lever being forked, as shown in Fig. 3. The upper or forward end of the lever carries a socket, D', and a downwardly-projecting pin, *d*<sup>1</sup>, of such a length as to pass through the upper disk, E, and its four-armed supporting-plate *e*, constructed like support C', above described. The lower end of the pin *d*<sup>1</sup> is hollow, and provided with an internal screw-thread for the reception of a screw, *d*<sup>2</sup>, by means of which the disk E is pivoted upon the under side of the arm D, as plainly shown in Fig. 2.

The socket D' is provided upon its upper face with a flaring plate, *d*<sup>3</sup>, the two being adapted to receive a knob or handle, F, provided with a shank, *f*, which fits into socket D', the knob being firmly secured in position by means of screws *f'* and plate *d*<sup>3</sup>, through which they pass.

The disk E is, like disk C, faced with felt or other analogous material, and both disks may be made of wood or metal.

The operation of the scourer is as follows: The disk E is raised from off the disk C, and brick-dust or other abrading substance is sprinkled upon the latter disk and slightly moistened. The knife-blade is then laid upon it, and disk E is brought down upon the knife-blade, to which a reciprocating motion is imparted, turning the knife-blade occasionally from one side to the other, though this will hardly be necessary after the scourer has been in use a little while, as sufficient abrading or scouring material will adhere to the upper disk to scour the blade on both sides at the same time.

The saucer-shaped supporting-plate A is of greater diameter than the disks C E, so as to collect all the abrading substance drawn from between the scouring-surfaces, and prevent it from falling upon the table upon which the scourer is placed.

The whole apparatus may be made of wood or of metal, or partly of wood and partly of metal, and when made of the latter material the scourer can be placed upon the market at a low price, as it can be cast in four pieces—namely, the supporting-plate A and the support B, with its stud B<sup>1</sup>, may be cast in one piece; the arm D, its knob F, and pin *d*<sup>1</sup> can be cast in one piece; and the disks C E, with

their bearing-sleeves, each in one piece—and in putting them together one screw,  $d^2$ , and a pivot-pin for the arm D would be required only.

The object of pivoting the two disks upon their respective supports is to adapt them for a change of position, so as not to wear the scouring-surfaces upon one spot only, and by this means the latter are made to last a long time. By mounting the lower disk so as to permit it to rock or oscillate upon its pivot a perfect contact between the disks and the blade to be scoured is insured, as above set forth.

Having now described my invention, what I claim is—

1. In a knife-scourer, the combination of two circular scouring surfaces or disks, pivoted to their respective supports, and adapted to be moved to and from each other, as described.

2. In a knife-scourer, the combination of a circular scouring surface or disk, pivoted to a movable support, in combination with a similar disk pivoted to a stationary support, and adapted to revolve and oscillate or rock upon its pivot, substantially as described, for the purpose specified.

3. In a knife-scourer, the combination of the plate A, support B, pin or stud  $B^1$ , and the disk C with the pivoted arm D, having knob or handle F, and the disk E, all arranged and operating substantially as shown and described.

In witness that I claim the foregoing I have hereunto set my hand this 30th day of October, 1878.

H. P. T. DUCHESNE DE ST. LEGER.

Witnesses:

T. R. SERREL, Jr.,  
ROBT. M. HOOPER.