

(No Model.)

N. A. PETRY.
CLEANING OR POLISHING IMPLEMENT.

No. 573,697.

Patented Dec. 22, 1896.

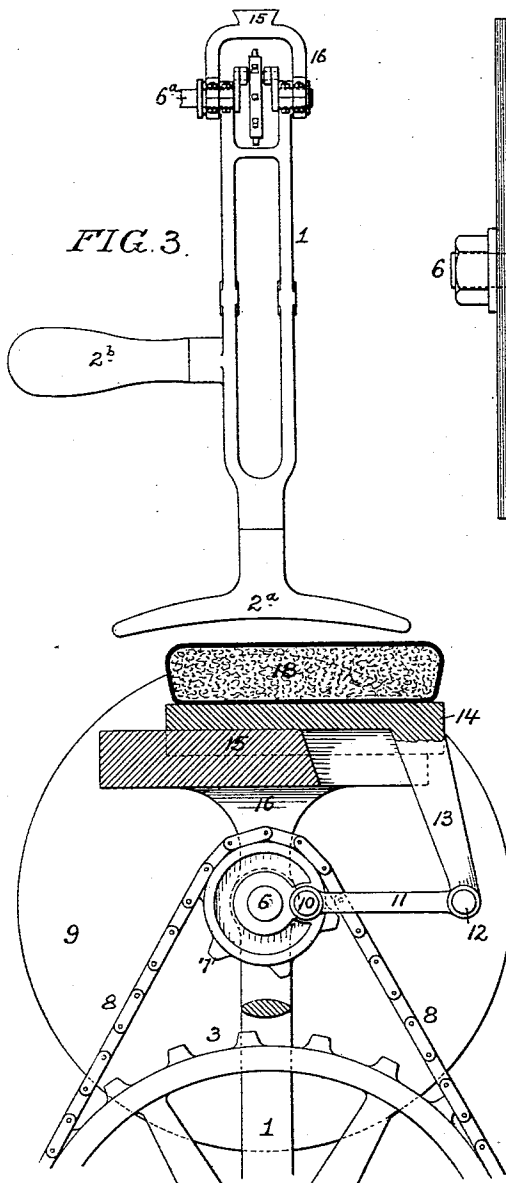


FIG. 3.

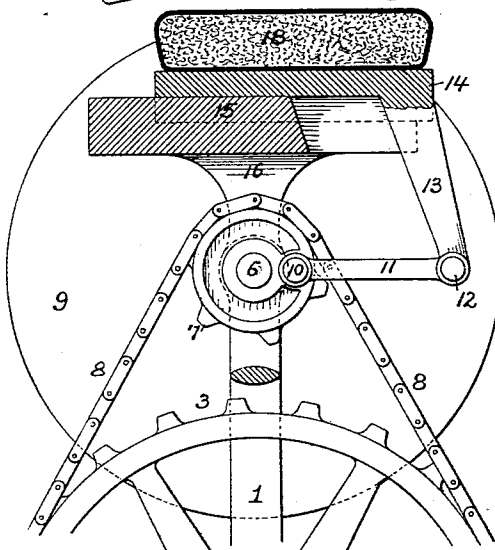


FIG. 2.

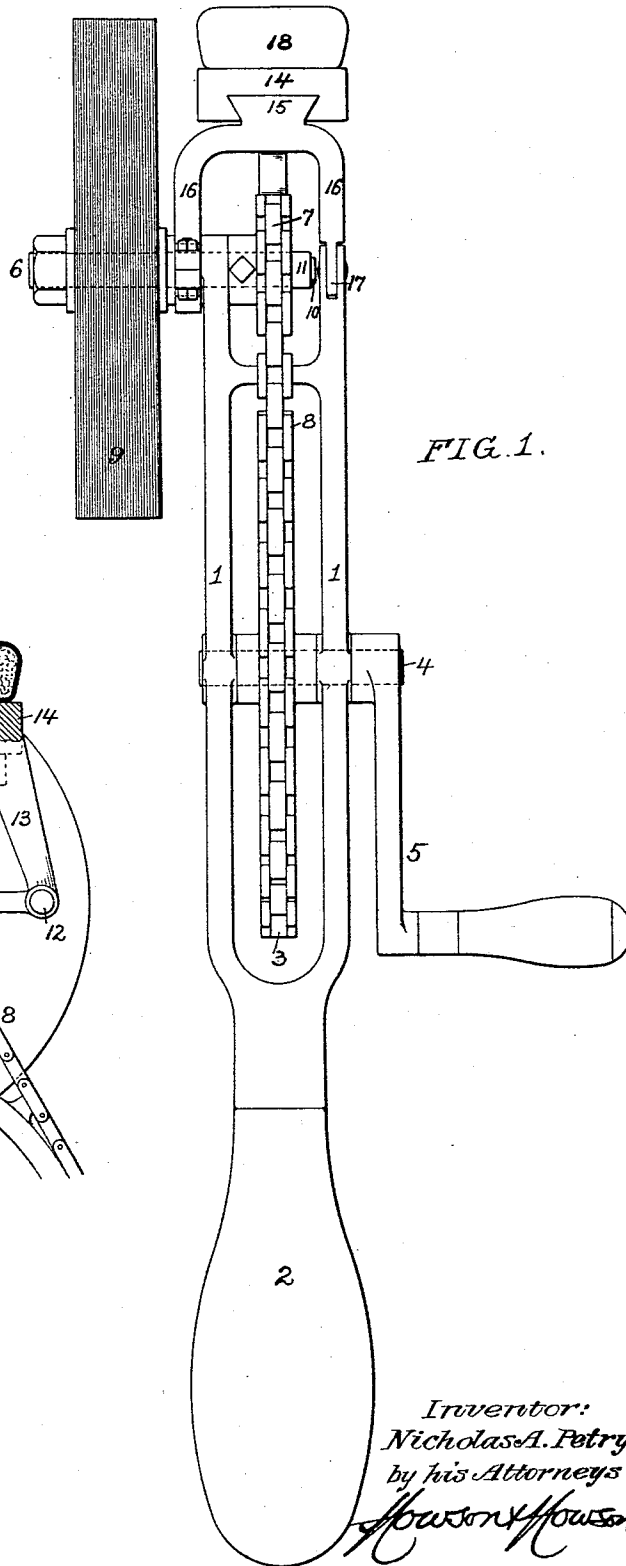


FIG. 1.

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UNITED STATES PATENT OFFICE.

NICHOLAS A. PETRY, OF PHILADELPHIA, PENNSYLVANIA.

CLEANING OR POLISHING IMPLEMENT.

SPECIFICATION forming part of Letters Patent No. 573,697, dated December 22, 1896.

Application filed June 10, 1896. Serial No. 595,018. (No model.)

To all whom it may concern:

Be it known that I, NICHOLAS A. PETRY, a citizen of the United States, residing in Philadelphia, Pennsylvania, have invented certain
5 Improvements in Cleaning or Polishing Implements, of which the following is a specification.

The object of my invention is to provide a convenient, inexpensive, and efficient implement for cleaning and polishing metal signs,
10 windows, and the like, an object which I attain in the manner hereinafter set forth, reference being had to the accompanying drawings, in which—

15 Figure 1 is a front elevation of the implement. Fig. 2 is a side view of part of the same, partly in section; and Fig. 3 is a view, on a reduced scale, showing certain modifications.

The implement shown in Figs. 1 and 2 comprises a frame 1, having at one end a suitable handle 2, this frame being recessed for the reception of a sprocket-wheel 3, secured to a shaft 4, which is adapted to suitable bearings in the opposite sides of the frame 1, and
25 is provided at one end with a crank 5, whereby it may be readily turned by one hand while the handle 2 is held in the other hand.

On one side of the frame 1, at the outer end of the same, is formed a bearing for a shaft
30 6, which has a sprocket-wheel 7, driven from the sprocket-wheel 3 by means of a chain 8, although this particular method of driving the shaft 6 is not absolutely necessary to the proper carrying out of my invention, as other well-known forms of gearing may be used,
35 such, for instance, as a belt and pulleys, a spur-wheel and pinion, or the like.

The shaft 6 carries a buffing or cleaning wheel 9, which may be of any available material, and on the inner face of the sprocket-wheel 7 is a crank-pin 10, to which is adapted one end of a rod or link 11, the other end of said rod being adapted to a pin 12, projecting from an arm 13, which depends from a
45 sliding block 14, mounted on a guide-rib 15 on a forked frame 16, one limb of the latter being mounted so as to be free to swing on the shaft 6, while its other limb is connected to the outer side of the frame 1 by means of
50 a hinge-joint 17, the axis of which is coincident with the axis of the shaft 6.

The sliding block 14 carries a pad 18, of any

suitable material, adapted for polishing metal or other surfaces by a rubbing action.

When the shaft 4 is rotated, rotary motion
55 is imparted to the brush or buffer 9 and a reciprocating motion to the slide 14 and pad 18. Hence provision is afforded for effecting the cleaning or polishing action either by the rotating brush or buffer or by the reciprocating
60 rubber or by the combined action of the two, the frame 16 being free to swing so as to permit the rubbing-pad 18 to assume any desired angle in respect to the frame 1, for the reason that the pivot of the frame 16 is in line with
65 the axis of the shaft 6, and hence permits such change in the angular position of the frame 16 without interfering with the proper driving of the slide 14 by the crank-pin of the sprocket-wheel 7.

By the use of the above-described implement I am enabled to quickly and efficiently perform a class of work which is now accomplished only by the direct manipulation of scouring-cloths and rubbers.
75

Any suitable form of guard or shield may be used to partially inclose the buffer-wheel 9 and prevent the scattering of the polishing material thereby.

When the work to be performed requires
80 the pressure of the polishing implement with considerable force against the surface to be polished, the frame 1 may have in place of the handle 2 a breast-plate 2^a and a lateral steadying and directing handle 2^b, as shown
85 in Fig. 3, in which figure I have also shown the sprocket-wheel 7 mounted upon a cranked shaft 6^a, which extends through both sides of the frame 1 and serves as the support for the opposite legs of the frame 16.
90

It will be observed that the rubbing-surface of the polishing-pad 18 projects outwardly beyond the periphery of the buffing-wheel 9, so that the latter does not interfere with the proper use of said polishing-pad,
95 while, on the other hand, the polishing-pad extends throughout but a small portion of the periphery of the buffing-wheel, so that the portions of the same on each side of the polishing-pad are available for buffing purposes.
100

Having thus described my invention, I claim and desire to secure by Letters Patent—

1. The combination of the main frame, a

supplementary frame pivoted to said main frame, a slide mounted so as to reciprocate on said supplementary frame and carrying a suitable polishing-pad, a shaft mounted in the main frame in line with the pivotal axis of the supplementary frame, and means whereby the rotation of said shaft is caused to impart reciprocating motion to the polishing-slide, substantially as specified.

2. The combination of the main frame, a supplementary frame pivoted to said main frame, a slide mounted so as to reciprocate on said supplementary frame and carrying a suitable polishing-pad, a shaft mounted in the main frame in line with the pivotal axis of the supplementary frame, a buffing-wheel carried by said shaft, and means whereby the rotation of said shaft is caused to impart re-

ciprocating motion to the polishing-slide, substantially as specified.

3. The combination of a frame, having at the end a slide adapted to reciprocate across the frame, a shaft having a buffing or polishing wheel secured thereto, means whereby the rotative movement of said shaft is caused to impart reciprocating movement to the polishing-slide, and provision for rotating said shaft, substantially as specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

NICHOLAS A. PETRY.

Witnesses:

F. E. BECHTOLD,
JOS. H. KLEIN.