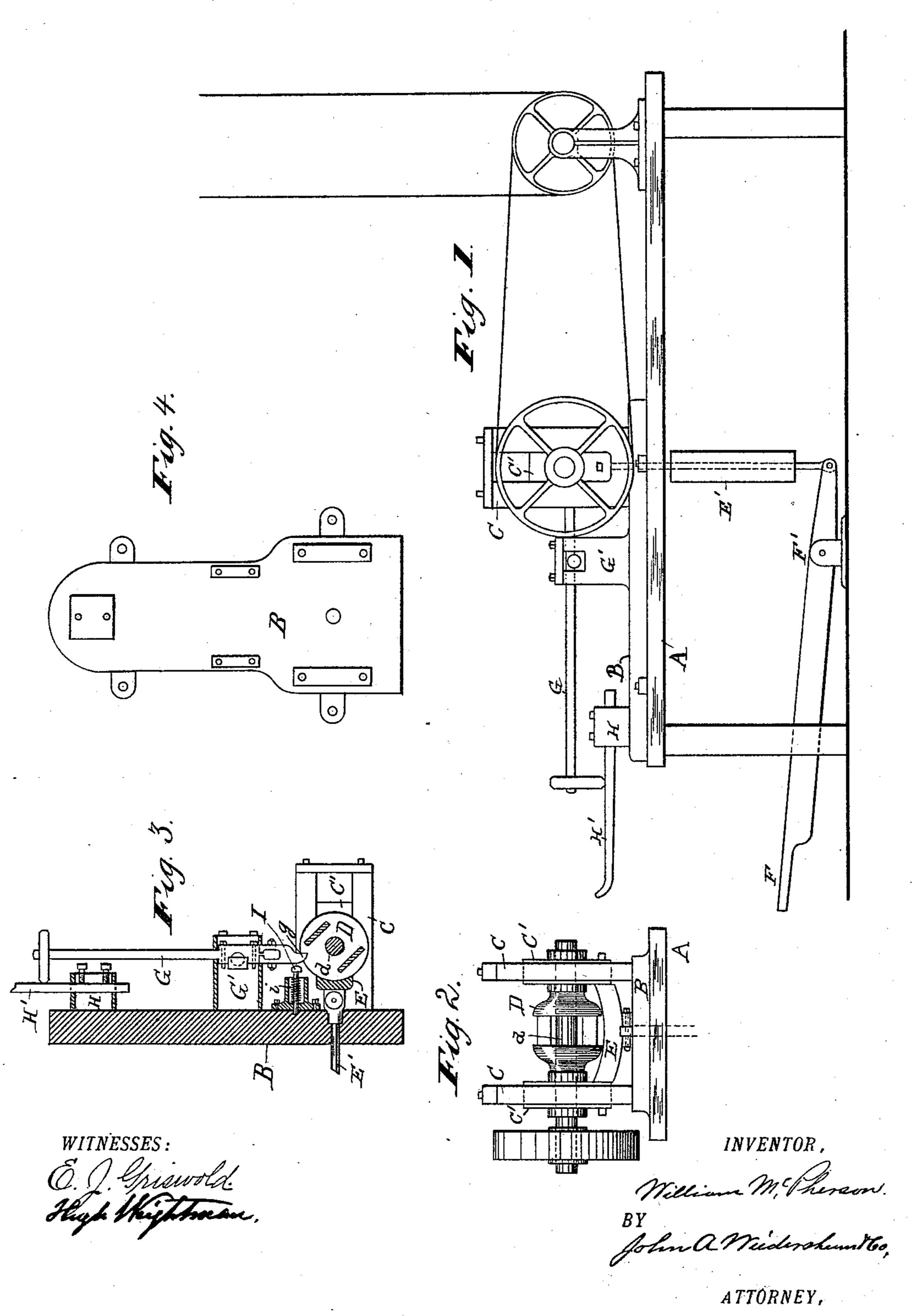
(No Model.)

W. McPHERSON.

SNARLING MACHINE.

No. 396,412.

Patented Jan. 22, 1889.



United States Patent Office.

WILLIAM MCPHERSON, OF NEW YORK, N. Y.

SNARLING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 396,412, dated January 22, 1889.

Application filed September 30, 1887. Serial No. 251,158. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM McPherson, of the city of New York, county and State of New York, have invented a new and useful Machine for Snarling Silver and other Metallic Ware, of which the following is a specification.

The object of my invention is to provide

an improved machine for snarling.

My main object is to make the machine simple in construction and operation, durable, and readily adjustable for different kinds of work.

Figure 1 is a side view of a snarling-machine constructed in accordance with my invention. Fig. 2 is a rear view of the machine. Fig. 3 is a side sectional view, and

Fig. 4 is a plan view of the base. A represents the table or bench; B, the 20 base of the machine, which is firmly attached to the bench by bolts or other suitable means, Fig. 1; C, standards, Fig. 3, in each of which is journaled sliding boxes C', to which is attached the trundle or trip wheel D by 25 axle d, one end of which passes beyond the sliding box and is provided with a pulley for the purpose of attaching power; E, a yoke attached by its respective ends to the lower ends of the sliding boxes and attached 30 at its center to a weighted rod, E', Figs. 1 and 3, connecting it with a foot-regulator, F, fulcrumed at F' under the bench, Fig. 1; G, the hammer, the handle of which is fulcrumed on standard G' on base B, and pro-35 vided at its inner end with a catch or lip, g, which is arranged to catch on the trundles of the trundle or trip wheel, causing the head of the hammer to rise, and when released by the revolution of the trip-wheel to 40 fall upon the snarling-iron; H, a standard cast upon the base D, through which is an opening, in which, by means of set-screws, is adjustably attached the snarling-iron H',

having its outer end curled, as shown in Fig. 1; and I, the check or bumper surrounded by a spring, i, attached to the base directly under the end of the handle, for the purpose of acting as a cushion and preventing the rebound of the hammer.

The manner of using my invention is as 50 follows; The power is attached by pulleys or belts, as shown in Fig. 1, which causes the trip-wheel to revolve, the trundles of which engage with the catch or lip on the inner end of the hammer-handle, causing 55 the hammer to rise, and when released to fall upon the snarling-iron, vibrating the same, the strength of which vibrations is in proportion to the force of the blow, which is controlled by the operator by means of the 60 foot-regulator. The piece to be snarled is held by the operator so that the inside of the piece rests on the point of the snarlingiron, the force of the blow on the iron causing the point to indent the body of the piece, 65 producing an irregular outer surface. The blow is governed by the foot-regulator, which when pressed down raises, by means of the yoke and weighted rod, the sliding box in each of the standards, thereby raising the 70 trip or trundle wheel, producing a light blow. When the pressure is removed, the weighted rod causes the boxes, with the attached trundle or trip wheel, to return to their original position.

What I claim as my invention, and desire

to secure by Letters Patent, is—

1. In a snarling-machine, the combination of the snarling-iron, the hammer, the trip-wheel operatively connected therewith, and 80 the sliding boxes in which the trip-wheel is journaled, substantially as set forth.

2. In a snarling-machine, the combination of the hammer, the trip-wheel operatively connected therewith, the sliding boxes in 85 which the trip-wheel is journaled, and the adjustable snarling-iron, substantially as set forth.

3. In a snarling-machine, the combination of a hammer, a trip-wheel operatively connected therewith, the sliding boxes in which the trip-wheel is journaled, and the weighted foot-lever to govern the force of the blow of the hammer, substantially as set forth.

4. In a snarling-machine, the combination 95 of the hammer, the trip-wheel operatively connected with the hammer, the sliding boxes in which the trip-wheel is journaled, and the

foot-regulator connected with the boxes, substantially as set forth.

5. A snarling - machine consisting of a snarling-iron, a hammer suitably fulcrumed and its inner end provided with a lip or catch constructed to engage the trundles of the trundle or trip wheel, and a bumper sur-

rounded by a spring to prevent the rebound of the hammer, substantially as shown and described.

WILLIAM MCPHERSON.

Witnesses:

HUGH WEIGHTMAN, F. W. CROCKER.