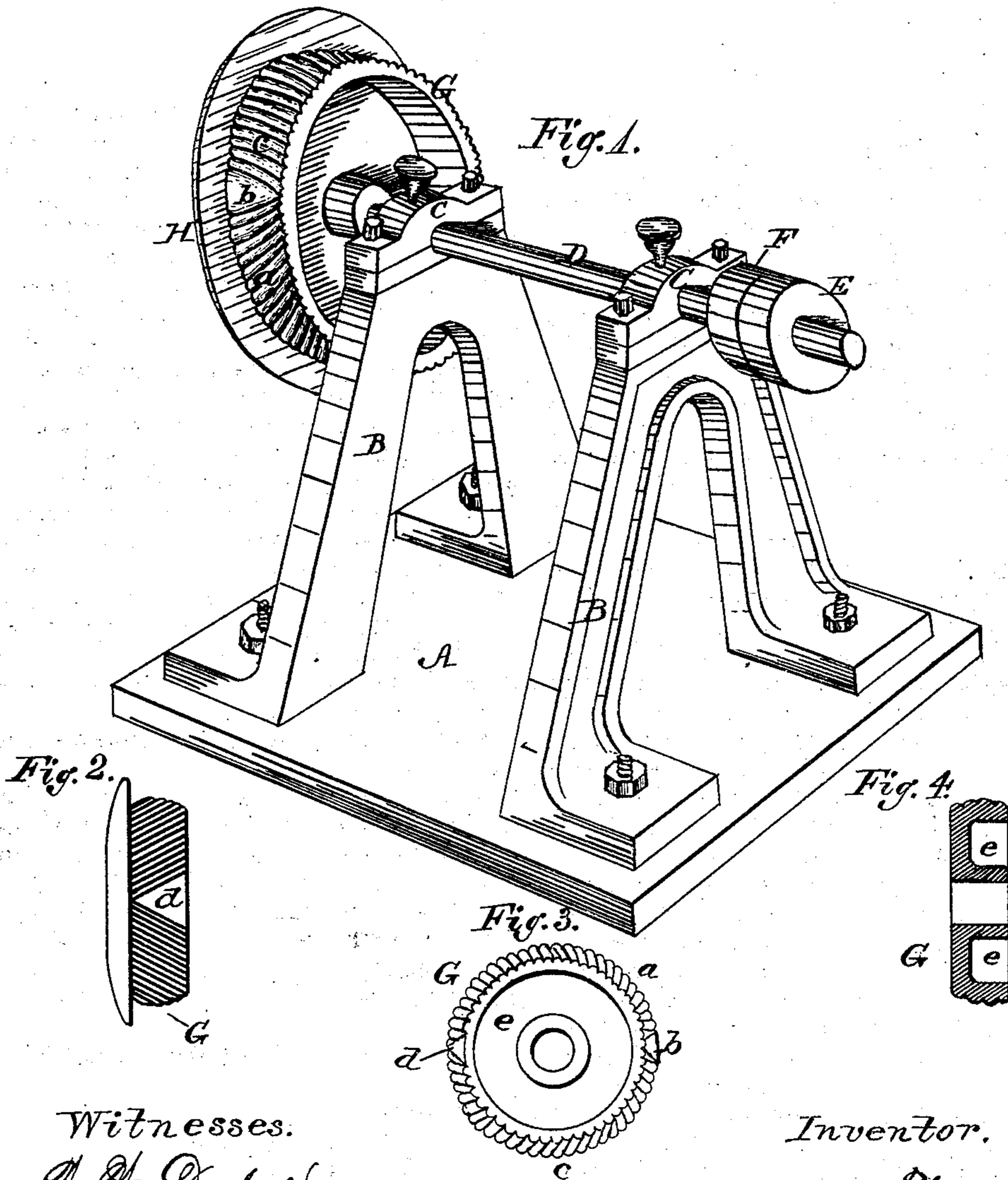


NARCISSE PHANEUF.
Machines for Trimming and Polishing Boot and Shoe Heels.

No. 152,165.

Patented June 16, 1874.



Witnesses:
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UNITED STATES PATENT OFFICE.

NARCISSE PHANEUF, OF MONTREAL, CANADA.

IMPROVEMENT IN MACHINES FOR TRIMMING AND POLISHING BOOT AND SHOE HEELS.

Specification forming part of Letters Patent No. **152,165**, dated June 16, 1874; application filed December 6, 1873.

To all whom it may concern:

Be it known that I, NARCISSE PHANEUF, of Montreal, in the Province of Quebec and Dominion of Canada, have invented certain Improvements in Machines for Trimming and Polishing Boot and Shoe Heels, of which the following is a specification:

My invention consists, mainly, in a rotating wheel, the periphery of which is formed with two series of oblique teeth inclined in reverse directions, and with two intermediate smooth portions, so that the teeth and the smooth portions act alternately, the wheel being also made hollow, and heated by a gas or other flame.

Figure 1 is a perspective view of my machine; Fig. 2, an edge view of the wheel; Fig. 3, a side of face view of the same; Fig. 4, a central cross-section of the same.

A represents a bed-plate or base, on which there are secured two standards, B, the upper ends of which are provided with boxes or bearings C, in which there is mounted a horizontal shaft, D. The shaft is provided at one end with a driving-pulley, E, and loose pulley F, and at the other end with the trimming and polishing wheels G, as shown in Fig. 1. The wheel G has its outer edge rounded to correspond with the vertical curvature of the heels, and is provided with a series of oblique ribs or teeth, *a*, inclined to the right, a smooth surface, *b*, another series of teeth, *c*, inclined to the left, and then another smooth surface, *d*, as shown in Figs. 1, 2, and 4. Against the outside of the wheel G there is secured a disk or plate, H, the edge of which projects beyond that of the wheel, and serves as a rest or guard, against which to support the heels while being operated upon.

It is obvious that this rest or guard may, if preferred, be formed solidly on the wheel.

The wheel is recessed or chambered on the inner side, as shown at *e*, to admit a gas-flame, lamp, or other heating device, which may be arranged in any suitable manner.

In operating the machine, the wheel G is given a rapid rotary motion by means of a belt from any suitable motor applied to the driving-wheel E. The wheel G is also heated by a gas-flame or lamp on the inside. The operator dresses the boot-heel with ink or blacking, and, standing upright, presents the heel to the face of the wheel G, and turns it about so that the wheel will act upon every portion of its surface. By the joint action of the smooth and ribbed portions of the wheel the heel is quickly and neatly trimmed, pressed, and polished. No wax or other dressing is required; but at the same time the heel is given a finish which is not excelled by any of the present methods.

Having described my invention, what I claim is—

1. The trimming and polishing wheel G, having its edge provided with the ribbed and smooth portions or surfaces, arranged and operating as shown and described.

2. The trimming and polishing wheel G, provided with the smooth and ribbed surfaces on its edge, and also with the recess *e* and guard or rest H.

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