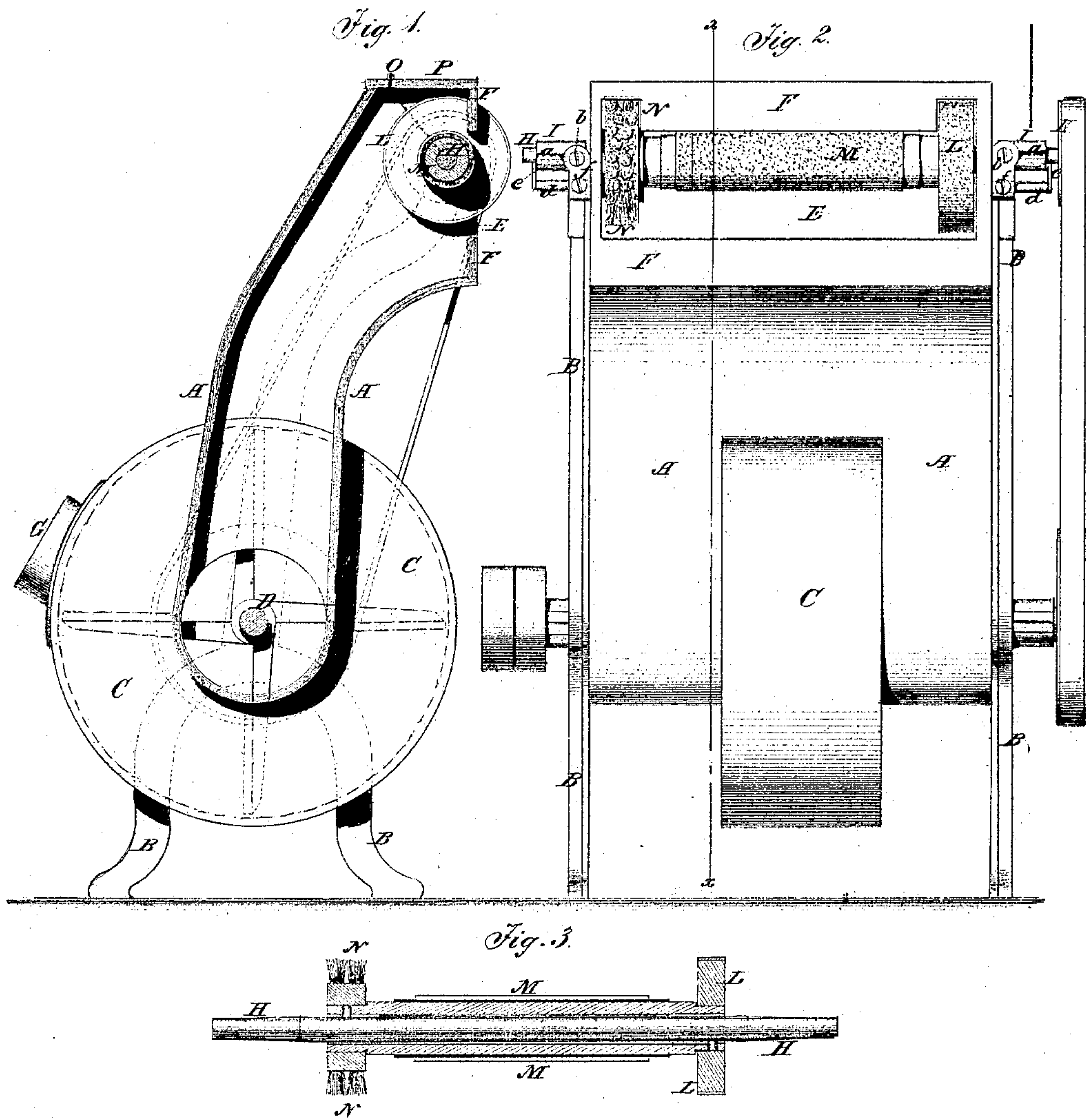


S. D. Tripp,
Sole Machine.
No. 108216. *Patented Oct. 11. 1870.*



Witnesses:
Gustave Dietrich
Alex. F. Roberts

Inventor:
S. D. Tripp
 PER *Wm. L. ...*
 Attorneys.

United States Patent Office.

SETH D. TRIPP, OF LYNN, MASSACHUSETTS.

Letters Patent No. 108,216, dated October 11, 1870; antedated October 1, 1870.

IMPROVEMENT IN LEATHER-BUFFING MACHINES.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, SETH D. TRIPP, of Lynn, in the county of Essex and State of Massachusetts, have invented a new and useful Improvement in "Buffing-Machines;" and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification.

This invention relates to buffing-machines, and consists in the improvement thereon, to be hereafter specified in claim.

The discharge-nozzle is adjustably attached to the drum of the fan, so that the dust may be conveyed in any direction, as may be required for different situations, and the mandrel is provided with tapered journals and adjustable tapered boxes, held between set-screws, for moving up from time to time as they wear loose, and the boxes are provided with adjustable holding-rods.

The sanding-rolls are made of wood, with a central hole for the reception of the mandrel, on which they are secured by set-screws, so as to be readily removed for the substitution of others when worn out.

Figure 1 is a transverse sectional elevation of my improved machine.

Figure 2 is a front elevation of the same.

Figure 3 is a longitudinal section through the "buffing"-rolls.

A is the hollow case mounted, in an upright position, on a frame, B, and provided with a fan-blower drum, C, and a fan, D, at the bottom; also, with a slot, E, along the vertical face F, near the upper end.

The said fan-drum C is provided with a discharge-nozzle, G, fitted to the periphery, and designed to be attached so that it may be adjusted to any position thereon, as may be required in setting the machine in different positions for discharging the dust, after which the hole may be cut through the periphery of the drum, coinciding with the hole of the nozzle for the discharge through the case or drum.

H is the mandrel for the support of the buffing-rolls, mounted near the top of the case, and parallel with the slot E in braces I.

These boxes are tapered internally, and the journals H of the mandrel correspondingly fitted thereto.

a a are grooves formed on opposite sides of the boxes I, and

b b, set-screws, whose inner ends enter the same; this arrangement permitting the longitudinal adjustment of the boxes to compensate for wear of the parts.

The said set-screws b are supported in the upper ends of the end frames B.

It is intended that the boxes I shall be held by

the screws b loosely, so that they may be moved without disturbing the said screws after the shaft and boxes have been properly lined; and, for holding them in place, I have provided the rods d with arms, e, to slide in and out of holes in the top of the frame, and be secured at any required position by set-screws f, the said arms e rising up in front of the outer ends of the boxes.

In this way the boxes may be adjusted and secured in position more readily than can be done by means of the screws b, if screwed up against the boxes tight enough to hold them against end motion.

This mandrel projects at one end far enough to receive the driving-pulley K, on which a belt from the fan-shaft works, to impart the rotary motion.

L is the disk or roll, for sand-papering the part of the sole next the heel, for which purpose it is required to project considerably from the other part, M, which is the roll for working on the other parts; and

N is the brushing-roll, for removing the dust.

The roll M is a long sleeve, of wood, having an axial hole, for the reception of the mandrel H, and it is secured thereto by set-screws.

The rolls L N are disks, of wood, attached to the ends of M, and the whole may be readily slipped off the mandrel, when required, for the substitution of others.

The said rolls L and M are covered with sand-paper, or other similar substance, and the "buffing" or sand-papering operation is performed by placing the soles against the papered surfaces while revolving at high velocity, as is well understood.

It will be seen that, by the employment, with the sand-papering rolls, of the fan-blower and hollow case leading thereto, the dust formed by the buffing operation, and which is injurious to the operator, is carried away from him, and the injury and annoyance thereof prevented.

The top of the case A is jointed and hinged at O, so that the part P thereof may be raised out of the way for the removal of the rollers, or for other purposes.

Having thus described my invention,

I claim as new and desire to secure by Letters Patent—

The combination of sliding rods d, arms e, set-screws b f, and grooved boxes I, all relatively constructed and arranged, as and for the purpose specified.

S. D. TRIPP.

Witnesses:

M. L. EDDY,

E. E. BOWKER.