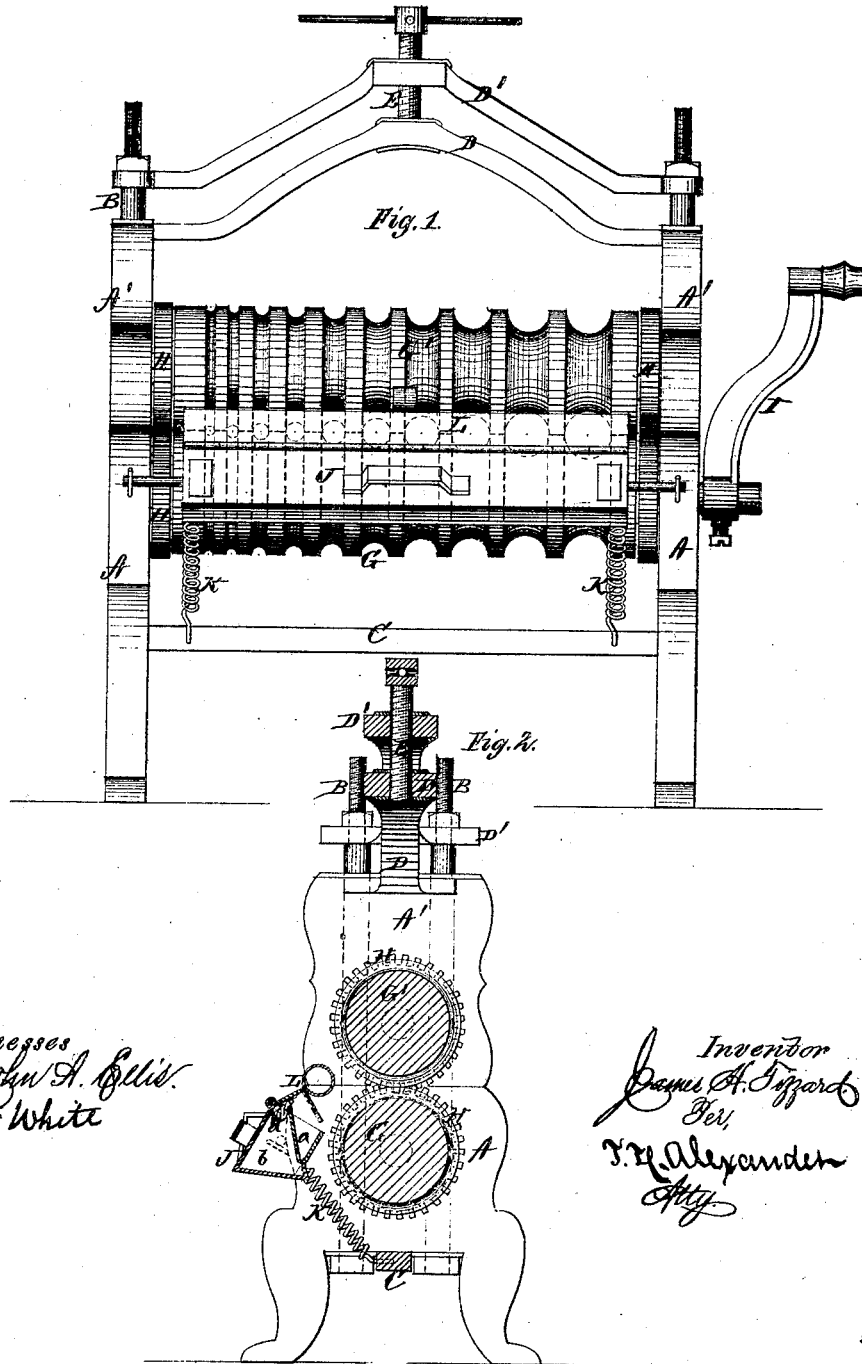


J. H. Tizard,

Leather Rounding Mach.

No. 113707.

Patented Apr. 11. 1871.



Witnesses
John A. Ellis.
J. T. White

Inventor
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JAMES H. TIZZARD, OF EATON, ASSIGNOR TO HIMSELF AND SAMUEL B. TIZZARD, OF DAYTON, OHIO.

Letters Patent No. 113,707, dated April 11, 1871.

IMPROVEMENT IN LEATHER-ROUNDING 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, JAMES H. TIZZARD, of Eaton, in the county of Preble and State of Ohio, have invented certain new and useful Improvements in Rounding-Machines; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon which form a part of this specification.

The nature of my invention consists in the construction and arrangement of a machine for rounding leather, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a side elevation, and

Figure 2 a transverse vertical section of my machine.

The end pieces of the frame of my machine are composed each of two parts, A and A', placed on top of each other, with bolts B B passing vertically through them.

The lower parts A A of the end pieces are connected by a bar, C, while the upper parts A' A' are connected at their upper ends by a curved bar, D, as shown in fig. 1.

On the upper ends of the bolts B B of each end piece is placed the end of another curved bar, D', running above and parallel with the bar D, thus connecting the bolts.

Through the center of this upper bar D' is passed a screw, E, the lower end of which is inserted in the center of the bar D, and thus by the turning of said screw the bar D, with the parts A' A', can be raised and lowered at will on the bolts B B.

In the parts A A one roller, G, has its bearings, and in the parts A' A' another roller, G', is placed, and hence it will be seen that, by the use of the screw E, the upper roller G' may be raised to insert the work and then lowered on the same.

These rollers are provided with a series of grooves, as shown, of unequal depth and width, so that any size or kind of work may be done with the same machine, the grooves on the two rollers, however, always corresponding. They are connected by gear-wheels H H at their ends, and upon one journal of the lower roller G is a crank, I, for turning the machine.

On the side of the machine where the work comes out from the rollers is hinged or pivoted a blacker, J, which is held at suitable height by means of springs K K, as shown, which springs allow the blacker to swing or yield, if necessary.

The blacker J is constructed with a trough, a, in which the blacking is poured, and from which it passes through perforations in the bottom to a chamber, b. The mouth of this chamber is very narrow, and extends the whole length of the blacker, and in the same is inserted sponge d, which absorbs the blacking. The rounded leather, coming in contact with the sponge d, is thus blackened.

The blacker is provided with a lid, L, which is hinged, and when turned back presents a series of semicircular notches corresponding in size with the grooves on the rollers, and through which the rounded and blackened leather will pass to be relieved of all superfluous blacking.

Having thus fully described my invention,

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

1. The blacker J, constructed as described, with trough a, chamber b, and sponge d, substantially as and for the purposes herein set forth.

2. In combination with the blacker J, the springs K K and notched lid L, all substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

JAMES H. TIZZARD.

Witnesses:

SAML. B. TIZZARD,
JOSEPH L. ZELL.