

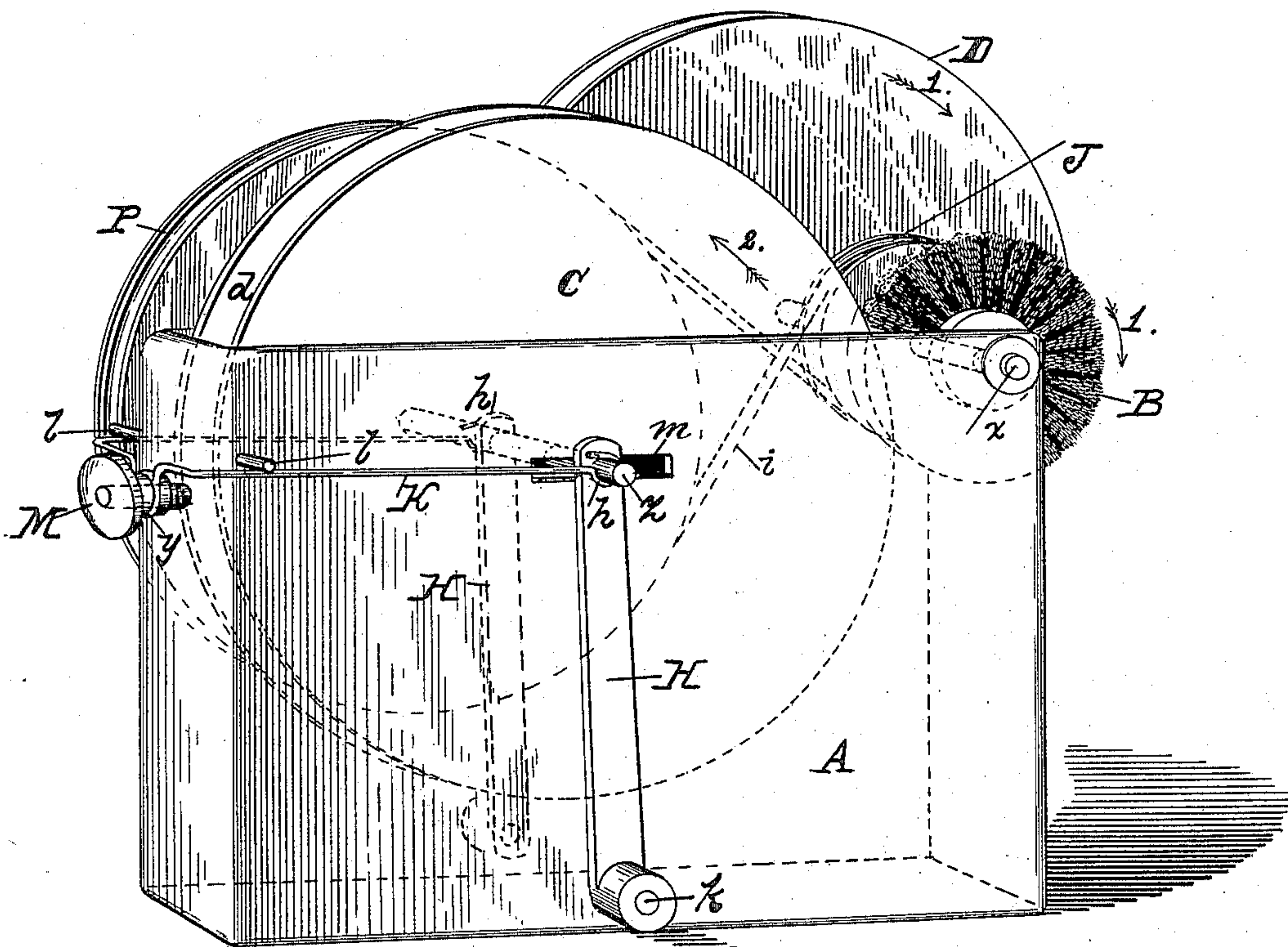
(No Model.)

O. F. DREW.

SOLE AND HEEL EDGE BLACKER FOR BOOTS OR SHOES.

No. 363,051.

Patented May 17, 1887.



WITNESSES:

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INVENTOR:

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UNITED STATES PATENT OFFICE.

OSCAR F. DREW, OF NEWBURYPORT, MASSACHUSETTS.

SOLE AND HEEL EDGE BLACKER FOR BOOTS OR SHOES.

SPECIFICATION forming part of Letters Patent No. 353,051, dated May 17, 1887.

Application filed March 26, 1887. Serial No. 232,463. (No model.)

To all whom it may concern:

Be it known that I, OSCAR F. DREW, of Newburyport, in the county of Essex, State of Massachusetts, have invented a certain new and useful Improvement in Edge and Heel Blackers for Boots or Shoes, of which the following is a description sufficiently full, clear, and exact to enable any person skilled in the art or science to which said invention appertains to make and use the same, reference being had to the accompanying drawing, forming part of this specification, in which the figure is an isometrical perspective view of my improved edge and heel blacker.

My invention relates more especially to that class of edge and heel blackers for boots or shoes which are designed to be run by steam or water power; and it consists in a novel construction and arrangement of parts, as hereinafter more fully set forth and claimed, the object being to produce a more effective device of this character than is now in ordinary use.

The nature and operation of the improvement will be readily understood by all conversant with such matters from the following explanation.

In the drawing, A represents the body of the blacker; B, the blacking-brush; C, the feed-wheel or dauber, and D the main driving-pulley.

The body consists of a rectangular tank, which is adapted to serve as a reservoir for the blacking or staining compound.

The brush B, which is circular in form and provided with radially-disposed bristles, is secured on a shaft, *z*, journaled horizontally in the upper portion of the forward end of the body A.

The feed-wheel C is disposed within the body A, being mounted on a shaft, *z*, passing through slots *m* in the sides of said body and journaled in the upper ends of movable arms H, the lower ends of said arms being pivoted centrally at *h* to the outer side of the body A, near its bottom. The feed-wheel is preferably provided with a grooved rim, *d*, and is of such size and so disposed within the body that the outer ends of the bristles of the brush B will be in contact with it within said groove when the blacker is in use.

An adjusting-loop, K, extends around the rear of the body and has the ends of its two arms bent to form hooks *h*, which clasp the shaft *z* outside the arms H, said loop being provided at its base with a bend or eye, *y*, to receive a thumb-screw, M, which is fitted to work in a threaded hole or nut in the body A, the purpose of said loop and screw being to adjust the pressure of the feed-wheel against the brush B, and thereby regulate the quantity of blacking supplied to said brush.

The main driving-pulley D is disposed on the outer end of the shaft *z*, and a small pulley, J, is secured to said shaft between the main pulley and the body of the blacker. This small pulley is connected by a crossed belt, *i*, with a large pulley, P, on the outer end of the shaft *z*, by means of which the feed-wheel is operated.

Stops or pins *l* are disposed in the sides of the body A to prevent the loop K from slipping over its top and interfering with the action of the feed-wheel when the blacker is in operation.

In the use of my improvement the body A is first filled with a sufficient amount of liquid blacking or staining material to partially submerge the feed-wheel, the pressure of said wheel against the brush B being regulated by turning the screw M in or out, and thereby throwing forward or withdrawing the shaft *z* in the slots *m*, according to the amount of blacking it is desired to supply to the brush. Power is then applied to the main driving-pulley D, to turn it from left to right in the direction indicated by arrow 1, thereby driving the brush B in the same direction and turning the feed-wheel C in the direction shown by arrow 2. The machine having been filled, started up, and adjusted, as described, the boot or shoe is held in contact with the brush and manipulated to accomplish the blacking of the edges and heel, in a manner which will be readily obvious without a more explicit description.

I do not confine myself to grooving the periphery of the wheel C, as its rim may be made flat or plain and serve the same purpose. Neither do I confine myself to the use of the loop K and screw M for adjusting the feed-

wheel C with respect to the brush B, as any other suitable appliance for this purpose may be employed. As in adjusting the wheel C the shaft z is moved through the arc of a circle of which the pivot k is the center, the slots m are made slightly higher or wider than the diameter of said shaft, to prevent it from binding therein. The bend y of the loop K rests in an annular groove in the body of the screw M, so that when said screw is turned into or out of the hole in which it is fitted to work in the end of the body A, said loop will reciprocate the longitudinal movements of the screw.

Having thus explained my invention, what I claim is—

1. In an edge and heel blacker for boots or shoes, the combination of the body A, provided with the slots m , the arms H, pivoted to said body, the shaft z , journaled in said arms and inserted in said slots, the feed-wheel C, mounted on said shaft, the brush B, journaled in said body and adapted to engage said wheel, means for adjusting said wheel with respect to said brush, driving-pulleys for said brush and

wheel, and a belt for said pulleys, substantially as described. 25

2. In an edge and heel blacker for boots or shoes, the feed-wheel C, mounted in the pivoted arms H, and provided with the loop K and screw M, in combination with the brush B and body A, provided with the slots m , substantially as shown and described. 30

3. The improved edge and heel blacker for boots or shoes herein described, the same consisting of the body A, provided with the slots m , the arms H, pivoted to said body and inserted in said slots, the feed-wheel C, mounted on said shaft, the adjusting-loop K and screw M, the brush B, journaled on the shaft x in said body and adapted to engage the wheel C, the pulleys D J, mounted on the shaft x , the pulley P, mounted on the shaft z , and the belt i , constructed, combined, and arranged to operate substantially as described. 35

OSCAR F. DREW.

Witnesses:

CLARENCE B. WINDER,
EEN C. KNIGHT.