

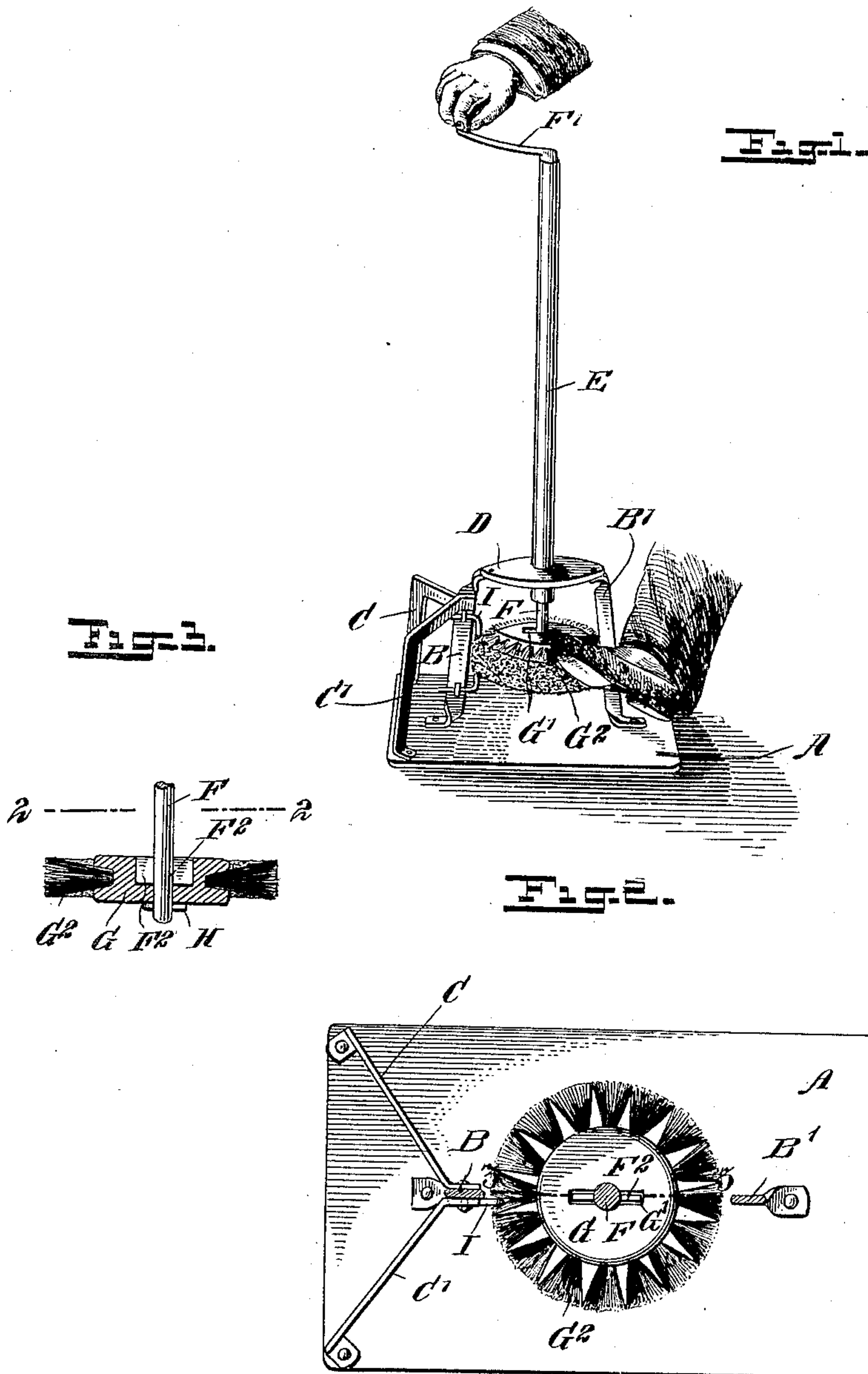
No. 693,742.

Patented Feb. 18, 1902.

W. RICHARDSON.  
SHOE CLEANING MACHINE.

(Application filed Apr. 11, 1901.)

(No Model.)



WITNESSES:

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# UNITED STATES PATENT OFFICE.

WILLIAM RICHARDSON, OF COLFAX, WASHINGTON.

## SHOE-CLEANING MACHINE.

SPECIFICATION forming part of Letters Patent No. 693,742, dated February 18, 1902.

Application filed April 11, 1901. Serial No. 55,338. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM RICHARDSON, a citizen of the United States, and a resident of Colfax, in the county of Whitman and State of Washington, have invented a new and Improved Shoe-Cleaning Machine, of which the following is a full, clear, and exact description.

My invention relates to a shoe-cleaning machine comprising a rotary brush and scrapers for rapidly and conveniently removing mud and dust from footwear.

The novel features of the invention will appear from the description following hereinafter, and particularly from the appended claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a perspective view of the machine. Fig. 2 is a sectional plan on the line 2 2 of Fig. 3, and Fig. 3 is a sectional elevation on the line 3 3 of Fig. 2.

The improved machine comprises a base A, with a skeleton frame rising therefrom, said frame consisting of two standards B B', one of which is adapted to serve as a rest for the foot, as shown in Fig. 1, and the scrapers C C', connected with the base A and with the other standard B. The standards B B' carry a plate D with a stationary vertical sleeve E, through which extends a shaft F, having a crank F' at its upper end. On the lower portion of the shaft is secured a cross-pin F<sup>2</sup>, adapted to lie in a transverse groove G' of a brush-core G, which is thus held to rotate with the shaft F. The core G is normally prevented from sliding down on the shaft by means of a linchpin H or other removable locking device. The core G has radially-disposed bristle-tufts G<sup>2</sup>, thus forming a rotary brush. These tufts are arranged to engage a cleaner I, secured to the standard B and adjustable toward and from the periphery of the brush.

In operation the foot is held against the standard B' and the bristles G<sup>2</sup>, and the brush is turned by means of the crank F'. The dirt which the brush removes from the shoe is removed by the cleaner I, so that the brush is clean by the time it again engages the shoe.

As the brush wears the cleaner I is adjusted inward. When the brush needs replacing, the linchpin H is removed, allowing the brush to be slid off downward. The scrapers C C' are used in the customary way to give the shoe a preparatory cleaning before subjecting it to the action of the rotary brush.

It will be seen that the machine is simple, efficient, and readily adjusted.

Having thus fully described my invention, I claim as new and desire to secure by Letters Patent—

1. A shoe-cleaning machine, comprising a frame provided with two standards, a revoluble brush mounted between said standards, a cleaner for normally engaging the surface of the brush, and a locking device secured to one of said standards for detachably securing said cleaner.

2. A shoe-cleaning machine, comprising a frame provided with two standards, a movable brush mounted between said standards, a cleaner for normally engaging the surface of the brush, and a locking device secured to one of said standards, and slidably engaging said cleaner, whereby the same is rendered adjustable toward and from the brush.

3. A shoe-cleaning machine, comprising a frame, a shaft journaled therein, and provided with a cross-pin, a brush having a groove to receive said pin, and a removable locking device to hold the brush.

4. A shoe-cleaning machine, comprising a frame, a plate secured thereto and provided with an opening, a tubular sleeve rigidly secured in said opening and practically integral with said plate, a revoluble shaft journaled in said sleeve and provided at one of its ends with a cleaner and at the other with a crank-arm, said sleeve abutting said crank-arm and bracing the shaft substantially throughout the entire length thereof, a locking device secured to the frame, and a U-shaped scraper the ends whereof are slidably engaged by said locking device.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WILLIAM RICHARDSON.

Witnesses:

L. D. WOODWARD,  
H. M. MOFFATT.