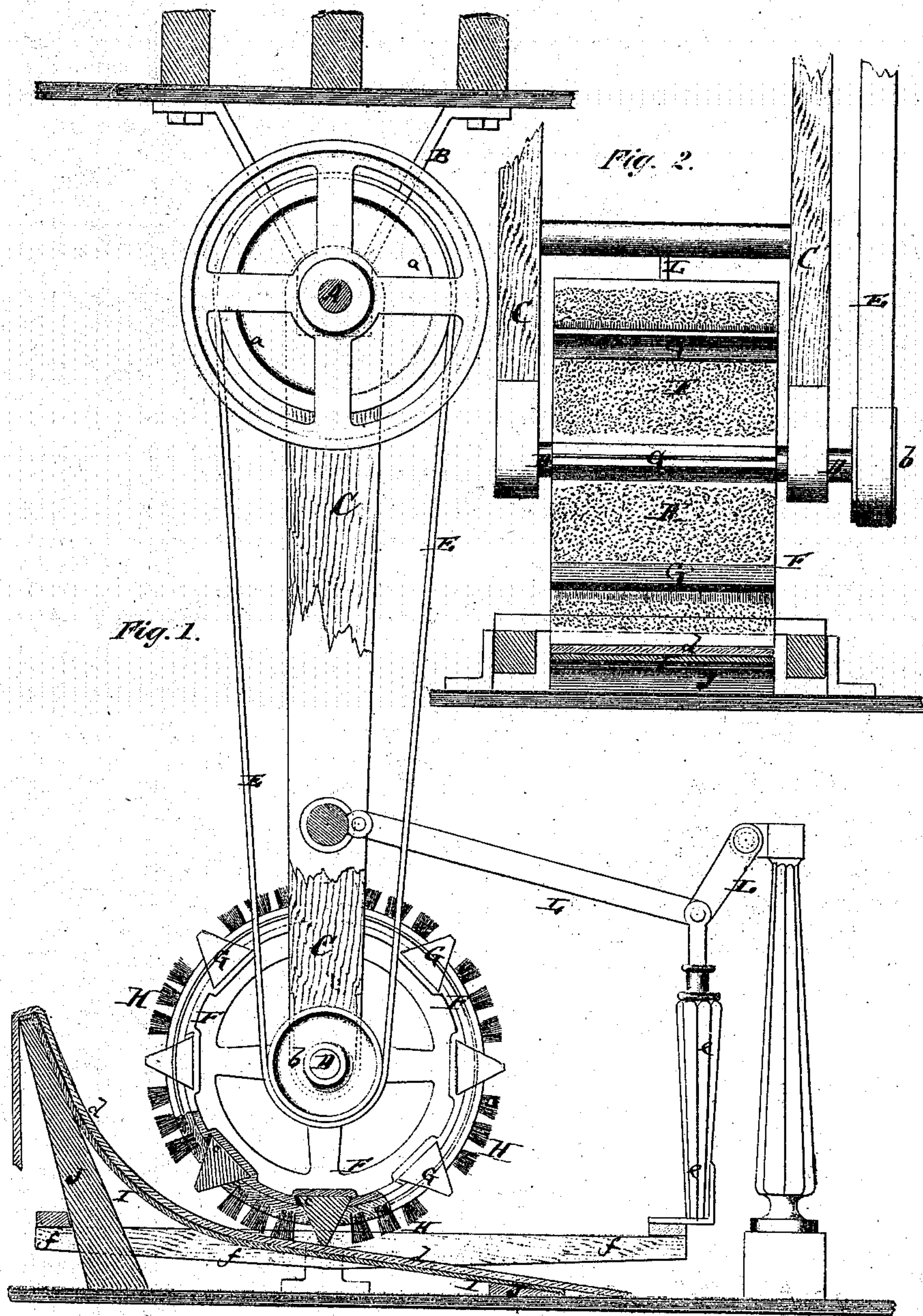


D. P. Burdon,

Scouring Leather.

No. 105419.

Patented July 19. 1870.



Witnesses:
Jusave Dietrich
Alex. F. Roberts

Inventor:
D. P. Burdon
PER [Signature]
Attorneys.

UNITED STATES PATENT OFFICE.

DAVID P. BURDON, OF NEW YORK, N. Y.

IMPROVEMENT IN LEATHER-SCOURING MACHINES.

Specification forming part of Letters Patent No. 105,419, dated July 19, 1870.

To all whom it may concern:

Be it known that I, DAVID P. BURDON, of the city of New York, in the county and State of New York, have invented a new and Improved Leather-Scouring Machine; 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.

Figure 1 represents a side view, partly in section, of my improved leather-scouring machine. Fig. 2 is a detail face view of the same.

Similar letters of reference indicate corresponding parts.

This invention relates to a new machine for dressing, setting out, and scouring hides, skins, and leather; and has for its object to facilitate the operation by providing for a perfect adjustment of all parts to hides varying in thickness and quality.

The invention consists, chiefly, in the use of a rotating scouring and rubbing cylinder, which is hung in a pendulum-frame, so that it can be swung any suitable distance from the bed that supports the hide to be dressed.

The invention consists, also, in a new way of securing the rubbing-stones in the rotating cylinder by dovetails formed on the stones. The same will thereby be firmly held and readily removed.

The invention consists, also, in the use of an elastic bed, which will allow the rubber to yield to uneven parts of the leather, preventing the tearing or cutting of projecting portions.

Finally, the invention consists in the application to the pendulum-frame that carries the rotary cylinder of a pair of toggle-levers, for swinging the same in the desired direction.

A in the drawing represents the upper shaft of my improved leather-scouring machine. It is hung in brackets B, that are suspended from the ceiling of the room in which the apparatus is to be put up.

C is a swinging frame, suspended from the

shaft A, and carrying at its lower end a horizontal shaft, D. A belt, E, connects the pulleys *a b* on the shafts A D, for the purpose of transmitting motion to the latter, the shaft A receiving rotary motion from suitable mechanism.

Upon the shaft D is mounted a cylinder or disk, F, which carries the rubbing or scouring implements, in form of stones G and brushes H, or of stones or brushes only, as may be desired.

Each stone is made of triangular or other suitable form, and is dovetailed into a dovetail groove of the cylinder F, being locked therein by a wedge or key, *c*. The stones or brushes work over a bed, I, which is secured to a suitable fixed frame, J, and which I prefer to make of sheet metal or other suitable yielding material.

The bed I is secured so that one end is considerably higher than the other, so it will bag under the cylinder.

For the purpose of increasing the elasticity of the bed, I prefer to place a soft covering, *d*, made of india-rubber or other elastic material, over the same.

The hide or skin to be dressed is placed upon the bed, and then the roller is drawn against it, so that the stones or brushes will rub the surface of the leather and properly dress the same.

By means of the swinging frame the pressure against the leather can be regulated at will, and suitable workmanship consequently produced.

The apparatus for setting the swing-frame consists of toggle-levers L, which are, by a rod, *e*, connected with a treadle, *f*, or other suitable lever. By swinging said treadle or lever the dressing-roller can be moved nearer to or farther from the bed.

The swinging frame can be made either rigid or flexible, and may be hung to the stationary apparatus at the upper or lower end, as may be desired.

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

1. The rotating scourer hung in a pendu-

lum-frame, substantially as herein shown and described.

2. The scouring-stones dovetailed in the supporting-cylinder and held therein, substantially as herein shown and described.

3. The bed I of a leather-dressing machine, made elastic and self-adjusting, substantially as herein shown and described.

4. The toggle-levers L L, combined with the pendulum-frame C and lever *f*, for the purpose of adjusting the frame and roller, substantially as described.

DAVID P. BURDON.

Witnesses:

GEORGE W. MABEE,
ALEX. F. ROBERTS.