T. L. DAHENEY.

MACHINERY FOR SCOURING AND DRESSING LEATHER.

No. 194,806. Patented Sept. 4, 1877.

Fig. 1.

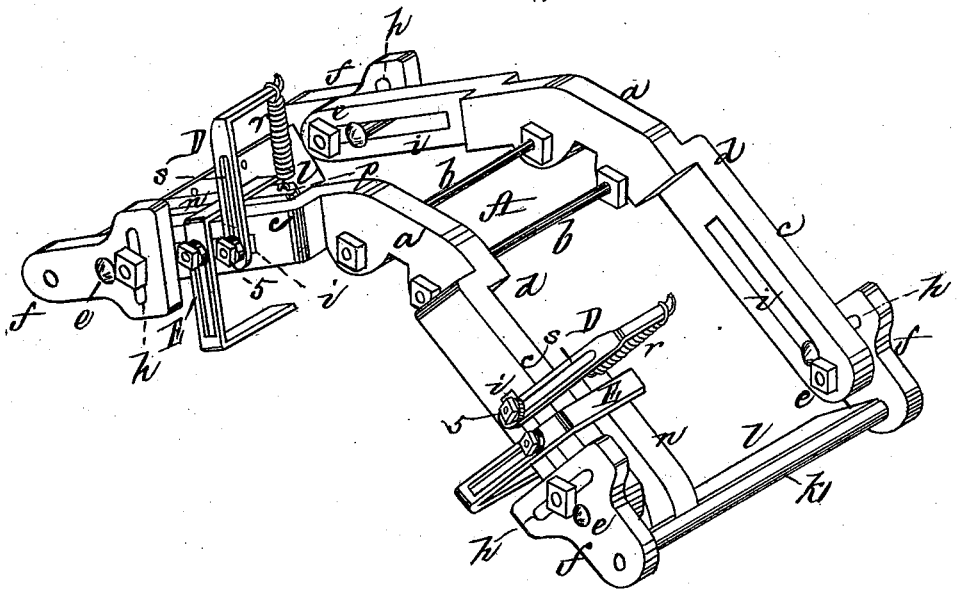
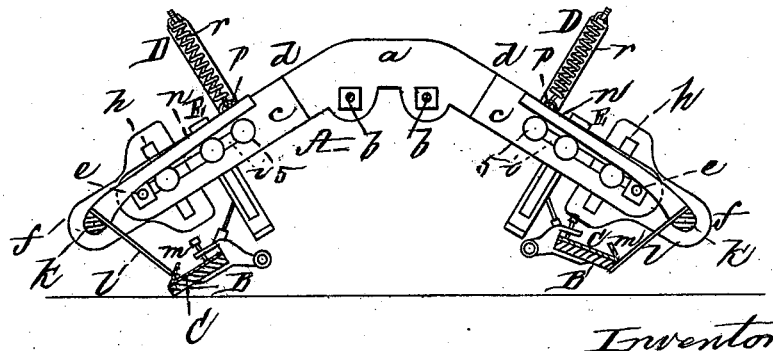


Fig. 2.



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UNITED STATES PATENT OFFICE.

THOMAS L. DAHENEY, OF STONEHAM, MASSACHUSETTS.

IMPROVEMENT IN MACHINERY FOR SCOURING AND DRESSING LEATHER.

Specification forming part of Letters Patent No. **194,806**, dated September 4, 1877; application filed June 30, 1877.

To all whom it may concern:

Be it known that I, THOMAS L. DAHENEY, of Stoneham, in the county of Middlesex and State of Massachusetts, have invented a Device for Cleaning the Stones of Machines for Scouring and Setting Skins and Leather, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a perspective view of a pair of scrapers hung within a frame, intended to be used in cleaning the stones of a machine for scouring hides and leather. Fig. 2 is a longitudinal section through the center of the same, representing my scrapers in the position they occupy when cleaning the stones.

To remove the particles of dirt, pieces of leather, and other refuse from the stones of a machine for scouring and setting leather, &c., without the necessity of arresting the machine during the scouring operation, is the object of my invention.

My invention consists in a pair of yielding-scrapers hung in a frame secured to the scouring-machine, the bearing-edge of each stone being brought periodically into contact with its respective scraper, a suitable flanged plate secured to the stone or its holder being employed as a guide for directing the scraper on and off the stone while rising and falling at the required times.

My invention also consists in certain means of adjustment by which the scraper may be raised or lowered, and its distance varied so as to conform to the position and movements of the stone.

My invention also consists in an adjustable device for regulating the tension of a spring which allows of the yielding of the scraper when in contact with the stone and its guide.

To enable others skilled in the art to understand and use my invention, I will proceed to describe the manner in which I have carried it out.

In the said drawings, A represents a frame, the middle portion *a* of which is intended to be secured by bolts *b* to the inside of the scouring-machine. (Not shown.)

The outer ends of each middle portion *a* terminate in slotted portions *c*, each of which is provided with an offset or shoulder, *d*, at its junction with the middle portion *a*, whereby the distance between the outsides of these slotted portions *c* is made equal to the width across the frame-work of the machine.

On the outside face of the outer extremity of each slotted portion *c* is pivoted at *e* a lever, *f*, the inner end of which is enlarged and provided with a slot, *h*, the direction of which is at right angles to the slot *i* in the slotted portion *c*.

In the outer ends of each pair of levers *f* is loosely hung the cross-bar *k* of a steel plate, *l*, which is inclined in and down toward the scouring-stone B, this plate serving as a scraper for removing the scraps of leather, dirt, and other refuse matter which may have collected thereon during the process of scouring. The scouring-stone has secured to its upper side a plate, C, provided with a flange, *m*, which slopes inwardly up from the top of the outer edge of the scouring-stone, this plate serving as a guide for the edge of the scraper to bear against during the rise and fall of the stone, whereby the stone as it rises is kept snugly against the scraper, and the dirt thereon removed as required. This guide-plate also serves as a stock or holder for the stone; but the guide and holder may be made in separate pieces.

The scraper is provided with a long arm, *n*, which extends in a direction up toward the center of the machine, and to the inner end of this arm is secured, by means of a staple or hook, *p*, the lower end of a spiral spring, *r*, the upper end of which is caught over the top of a bent standard or arm, D, which is provided with a slot, *s*, and is secured to the outside of one of the slotted portions *c* of the frame of the scraper, the direction of the slot *s* being at right angles to that of the slot *i*, and a bolt, 5, passing through both of the slots *i s*, by which construction the scraper is free to yield so as to keep constantly in contact with the stone or the flanged guide as they rise and fall during the movements of the stone as the arm to which it is connected makes its forward and back stroke.

The tension of the spring *r* is regulated by a bent slotted stop, E, secured by a bolt to the outer face of the slotted portion *c* of the

scraper-frame, the top of the stop extending over the arm *n*, and limiting its upward movement, the adjustments of this slotted stop in connection with those of the slotted lever *f* enabling the edge of the scraper to be brought exactly into the path traversed by the stone.

It is evident that a strip of leather, cloth, or rubber may be attached to the bearing-edge or face of the scrapers, and the flange of the guide-plate may be made adjustable instead of fixed, if desired, without departing from the spirit of my invention.

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

1. The pair of yielding scrapers *l l*, hung in a frame applied to a machine for scouring and setting leather or working hides, substantially as and for the purpose set forth.

2. The guides C C, attached directly to the stones or their holders, in combination with the scrapers *l l*, constructed to operate substantially as described, for the purpose specified.

3. The bent arm D, with its slot *s*, and the slotted portion *c* of the frame, in combination with the scraper-arm *n*, spring *r*, slotted adjustable stop E, and slotted lever *f*, with the scraper *l* pivoted thereto, as and for the purpose described.

Witness my hand this 25th day of June, A. D. 1877.

THOMAS L. DAHENEY.

In the presence of—
N. W. STEARNS,
W. J. CAMBRIDGE.