

Taylor & Rude,

Preparing Hides.

No. 107,562.

Patented Sept. 20. 1870.

Fig 1.

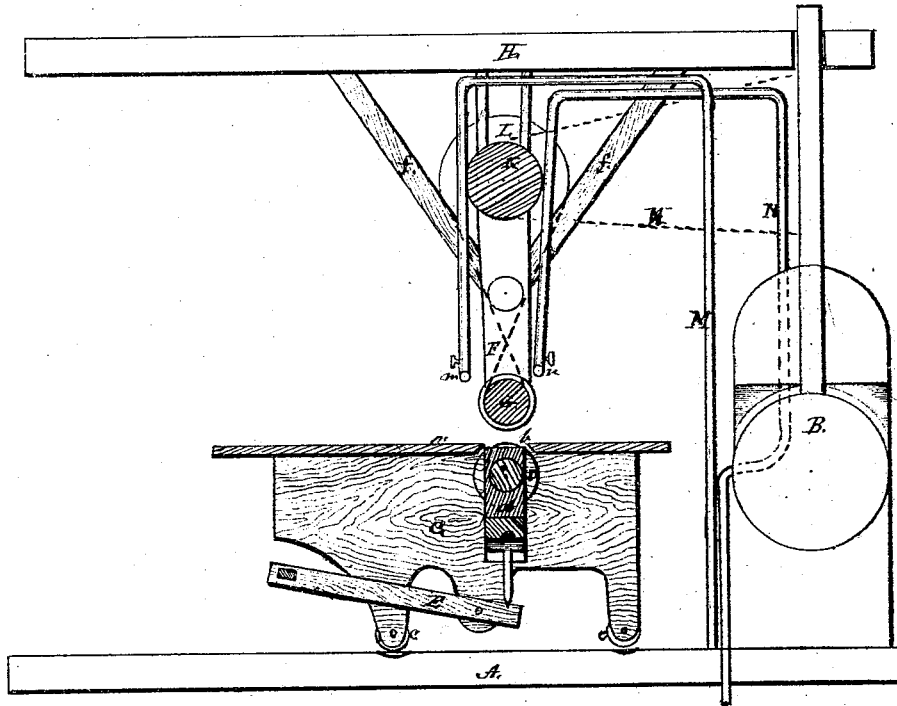
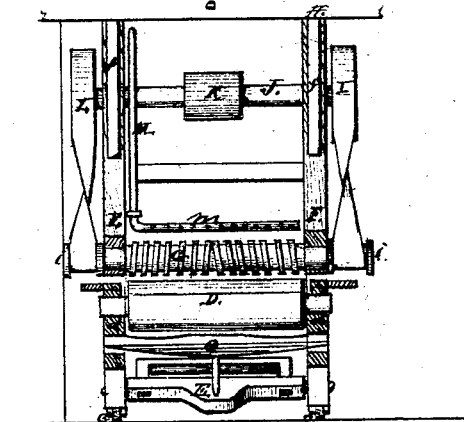


Fig. 2.



Witnesses.

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ESAU D. TAYLOR AND WILLIAM RUDE, OF HORNELLSVILLE, NEW YORK.

Letters Patent No. 107,562, dated September 20, 1870.

IMPROVEMENT IN MACHINES FOR BREAKING HIDES AND WORKING LEATHER.

The Schedule referred to in these Letters Patent and making part of the same

To all whom it may concern:

Be it known that we, ESAU D. TAYLOR and WILLIAM RUDE, of Hornellsville, in the county of Steuben and State of New York, have invented certain new and useful Improvements in Hide-breaking and Leather-working Machinery; and the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing making a part of this specification, in which—

Figure 1 represents a sectional side elevation of the movable table, with the compression-roller for bringing the hide or leather in contact with the mangle-roller, and the mechanism for operating it by the foot; also, the mangle-roller and its driving mechanism, all suspended from the joists of the building; likewise, the water-pipes for sprinkling the hide or leather with cold or hot water, and a sectional view of a steam-boiler.

Figure 2 shows a front view of the working-table in section, and the suspended breaking mechanism and driving power, with the sprinkler for softening the hide while in the process of breaking or working the leather.

The object of our invention is to economize and lighten manual labor, and to facilitate the process of tanning and dressing leather.

Our invention consists in suspending the power machinery, for breaking and mangling hides, to the joists or frame of the building, and having a truck or movable table on which the hides are placed to be brought under and in contact with the right and left spiral surface mangle-roller, so that the hide can be turned and twisted and moved between the mangle-roller and the presser-roller in the table in any direction without interfering with or being obstructed by posts, or any part of the machinery.

Also, in the arrangement of the water-pipes and sprinklers, and connection with a steam-boiler, for supplying cold or hot water, when necessary, in the process of breaking hides or working of the leather.

To enable others to make and use our invention, we will describe it more in detail, referring to the drawing and to the letters marked thereon.

On the lower floor A, and conveniently near to a steam-boiler, B, we provide a place for our table, C, to stand.

The table may be furnished with truck-rollers *c c*, so that it can be easily moved from its position to any place on the floor, and used for other purposes other than the breaking of hides.

In the bed of the table C there is an opening, *b*, under which is placed a roller, D, which may be grooved, fluted, or plain, as desired, the roller D having its journals in sliding boxes *d d*, in the sides of the table C, and a lifting-bar, *e*, underneath, connected

with a foot-lever frame, E, so that the roller can be elevated to press the hide hard against the mangle-roller G, which has its journals running in the lower ends of the suspended frame-timbers F F, which are secured to the joists H, and firmly secured by the braces *f f*.

The driving-pulleys I I on the outer ends of the counter-shaft J, with the driving-pulley K, are connected with the suspended frame F, the motion of the mangle-roller G being very rapid, the speed being multiplied on the pulleys *i i* from the pulleys I I on the counter-shaft J, which is driven by the belt *k* from a large drum or pulley on the main shaft.

The water necessary for softening dry hides when in the process of breaking may be taken from a reservoir or hydrant in two pipes, M N, one of them passing into and through a portion of the boiler B, by which means the water in it will become sufficiently heated for the purpose, the pipes extending up to the joists and along to one of the suspended frame-timbers, F, and down to near the break-roller G, where they are placed parallel with it, the horizontal portion of the pipes M and N being perforated with a series of small holes, so as to form a sprinkler onto the roller G, and the portion of the hide it is acting upon.

The pipes M and N are provided with stop-cocks, *o p*, so that the supply of either hot or cold water, or both, can be regulated at pleasure.

The advantages of our improvements, as will readily be seen, are, that the hide or leather can be handled in any direction, and the roller made to bear upon it, more or less, in any place without being obstructed by any frame-work.

What we claim as our invention, and desire to secure by Letters Patent, is—

1. Suspending the break-roller G and frame-work F, and all of the power machinery for operating the same from the joists H, or frame of the building, so that it is detached from the table C, as herein described.

2. The movable table C, as constructed, for operating substantially in the manner as and for the purposes set forth.

3. The arrangement of the water-pipes and sprinklers M N, one being connected with the steam-boiler B, in combination with the roller G, as set forth.

In testimony whereof we herewith subscribe our names in the presence of—

ESAU D. TAYLOR.
WM. RUDE.

Witnesses:

JOHN W. PINCH,
H. HOLLIDAY.