H. HUDSON.

LEATHER-ROLLING MACHINES.

No. 194,352. Patented Aug. 21, 1877.

Fig. 1

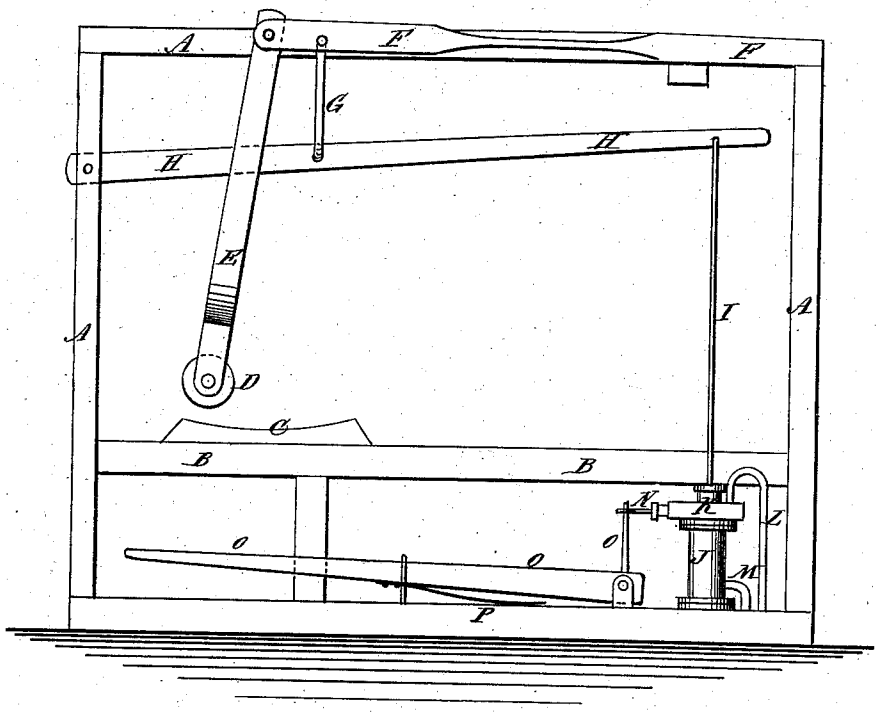
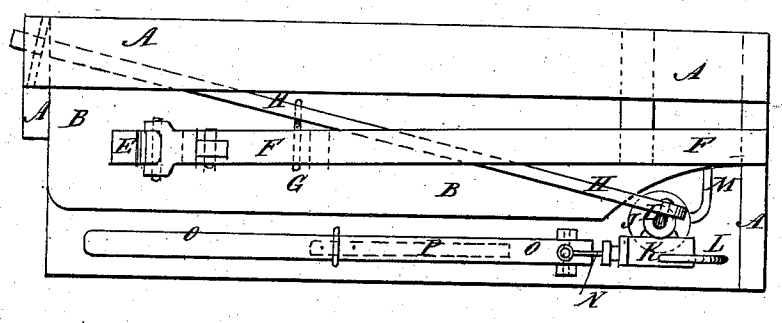


Fig. 2



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UNITED STATES PATENT OFFICE.

HENRY HUDSON, OF SALTILLO, PENNSYLVANIA.

IMPROVEMENT IN LEATHER-ROLLING MACHINES.

Specification forming part of Letters Patent No. **194,352**, dated August 21, 1877; application filed June 18, 1877.

To all whom it may concern:

Be it known that I, HENRY HUDSON, of Saltillo, in the county of Huntingdon and State of Pennsylvania, have invented a new and useful Improvement in Steam-Pressure Roller for Rolling Leather, of which the following is a specification:

Figure 1 is a side view of my improved apparatus. Fig. 2 is a top view of the same.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish an improved leather-rolling apparatus which shall be so constructed as to enable the pressure to be applied by steam-power, and which shall be simple in construction and easily controlled.

The invention will first be described in connection with the drawing, and then pointed out in the claim.

A represents the frame of the machine. B is the table, and C is the concaved block, upon which the roller works. D is the roller, which is pivoted to the lower end of the swinging bar E. The upper end of the bar E is pivoted to the free end of a spring-bar, F, the other end of which is attached to the frame A.

To the spring-bar F, at a little distance from its free end, is pivoted the upper end of a short connecting-rod, G, the lower end of which is pivoted to the lever H. One end of the lever H is pivoted to the frame A, and with its other end is connected the piston-rod I, the piston of which works in the steam-cylinder J. With the head of the cylinder J is connected a valve-chamber, K, through which steam enters from the pipe L, and is exhausted from the said cylinder J through the pipe M. With the valve-stem N is connected the short arm of the bent foot-lever O, which is pivoted at its angle to a support attached to the floor. The free end of the lever O is held up by a spring, P, placed beneath it.

With this construction, when the free end of the lever O is pressed down, steam is admitted to the cylinder J, which forces down the piston and applies pressure to the roller D. When the foot is removed from the lever O the said lever is raised by the spring P, which closes the inlet and opens the exhaust, and the piston and the roller D will be raised by the spring F. The bar E is vibrated to roll the leather in the usual way.

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

In a leather-rolling machine, the combination of the steam piston-rod I with the lever H, connecting-rod G, pivoted bars E F, and roller D, all substantially as and for the purpose specified.

HENRY HUDSON.

Witnesses:
E. G. HECK,
D. F. SHOPE.