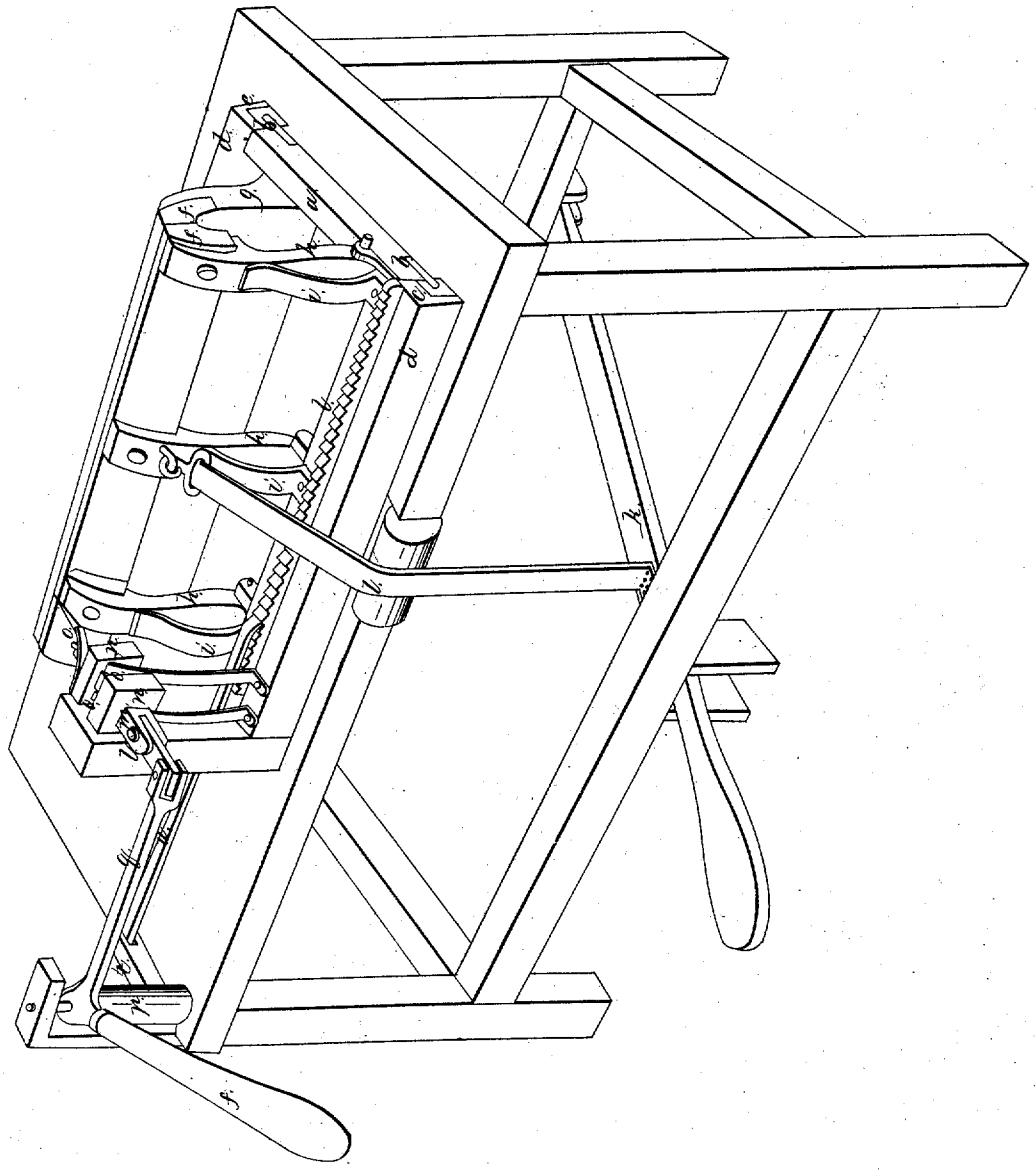
1282X

R. U & M. Richards,

Harness Tool.

Patented Apr. 24, 1810.



N. PETERS PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

Sept. 24. 1810 445.

Robert M. Richards & Mills Richards

Letters Patent 1282X

The Schedule referred to in these Letters Patent and making part of the same containing a description in the words of the said Robert M. Richards and Mills Richards themselves of a machine for cracking Leather that is to be stitched

The frame or Bench is two feet and a half high, two feet and a half wide, and three feet and four inches long. This frame could be more convenient for use if it was without legs or posts, for then it can be placed on the cutting table, therefore it will be more convenient and less cumbersome. The carriage consisting of a frame of wood, eighteen inches long and ten wide, the running part of said carriage is iron and fastened to the under side of the carriage, which runs run through on steel or cast iron rapet five on a side these rags are fastened in two sticks of timber lying each side of said carriage the timber frames to the bench. On the aforementioned Carriage on the right side is fastened two or three rags or gages made of steel with the points upward. The clamps which are fastened on the upper side of said Carriage and are seven inches high and eighteen inches long made of wrought or cast iron in two parts, one part of said clamps is made fast on the left side of said Carriage by a square piece of timber the same length of the clamps, the other part on side of clamps which is open, fast at the bottom three triangular Corners in shape which rags are fastened in the Carriage. The lower part or bottom of the clamps are four inches apart, the side bars which are up and down are bent in order to bring the face bars or jaws together for the purpose of holding the Leather. The clamps are shut with three steel springs set on the carriage and rest against the side bar of the clamps that opens. Clamps open by pulling the right foot on a treadle fastened at the right side of the bench, from the treadle is a strap which goes over the roller on the right side of the bench and reaches to the clamps with an iron hook on the end which hooks hooks to the middle bar of said clamps. Said clamps are hung in such a manner that they can be taken out after the Leather is pricked and set on other benches and served so. Therefore we deem the most hasty of the business of the shop required it to have a number of pairs of clamps fitted to run on one

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one Machine of the same size and description as above specified. The awl bar is made of one inch square, and five eighths of an inch square made of steel, in the angle of the clamps is a screw by for the purpose of securing an awl shafts, on the back end of this bar is a crotch with a hole through it for a pin, this bar slides through two boxes which boxes are fastened on a block of wood, this awl bar is guided by three springs on the underside of the bar between the boxes fastened to the block the other two springs are set in the block one stand upright and rest against the side of the bar, the block is fastened. The right side of the clamps is two holes which posts are framed on the end of the bench, the posts sufficient in height to raise the awl bar to the height of the clamps. The noodle post or roller is nine inches long and stands perpendicular turning in two steel boxes, one at the bottom and the other at the top, which boxes are fastened in a post which post is framed in the forth end of the bench. The noodle bar is two feet long including the elbow, and is fastened to the upper end of the roller and reaches to the awl bar and there has a mortice for a sheath or piece of iron, which sheath is fastened in the mortice with a pin the other end of the sheath is fastened in the crotch of the awl bar with a steel pin, on the end of the noodle bar is a handle of wood for the purpose of putting the machine in motion by the hand. We conceive that the awl may be carried by the foot by having a treadle and strap to carry it forward and a weight or spring to carry it back. At the bottom of the roller is fastened an arm which arm reaches to the left five inches, made square of iron, on each arm slips a box or double swivel of iron, which box slips on and off to give the different length of stitches, which box is fastened with a wedge or screw. The hand is eighteen inches long one end is fastened to the box or double swivel with a steel pin, the other end reaches under the awl and rests on the regulations or gauges for the purpose of moving said carriage and clamps. The awls are fixed in a number of Awl-shafts which awl shafts are to be screwed in or out of the awl bar as the business requires. The above mentioned machine can be carried larger or smaller with the same proportion above specified. We conceive that this machine can be carried in several ways, the carriage can be moved with a screw
End Drag and likewise the clamps made fast and the awl fixed on the carriage
1/4 and moving in the like manner as the clamps

Witnesses, Gregorius Pitkin
Jeremiah Watkins
Ezekiel Savage

Norbert Vs Richards
Mercy Richards

Jurat coram Nob. Hunt Esq.