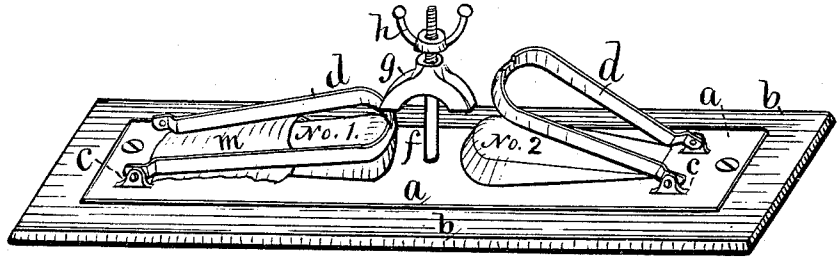
W. DIPPERT.

Harness-Pad Press.

No. 168,381. Patented Oct. 5, 1875.



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UNITED STATES PATENT OFFICE.

WILLIAM DIPPERT, OF DES MOINES, IOWA.

IMPROVEMENT IN HARNESS-PAD PRESSES.

Specification forming part of Letters Patent No. **168,381**, dated October 5, 1875; application filed May 31, 1875.

To all whom it may concern:

Be it known that I, WILLIAM DIPPERT, of Des Moines, in the county of Polk and State of Iowa, have invented an Improved Harness-Pad Press, of which the following is a specification:

The object of my invention is to furnish a simple press adapted to form two pads simultaneously in one operation. It consists in arranging two pad-forms, and two hinged crimping-rims, and a screw-press relative to each other upon a base-plate, as hereinafter fully set forth.

My drawing is a perspective view, illustrating the construction and operation of my invention.

a a is an oblong cast-metal plate secured with screws, or in any suitable way, to a movable board or fixed bench, represented by the board *b b*. Nos. 1 and 2 are forms rising above the surface of the plate *a a*. They may be cast solid with the plate, or rigidly attached thereto in any suitable manner. They may be hollow, and vary in size and configuration, as desired, to form pads of various sizes and shapes. *c c* are pairs of ears projecting from the plate *a a* on the outside and rear ends of the forms Nos. 1 and 2, to which crimping-rims are hinged. *d d* are crimping-rims, corresponding in shape with the forms Nos. 1 and 2, over which they are designed to pass. They are hinged to the ears *c* projecting from the plate *a a*. *f* is a screw fixed in a central position relative to the forms Nos. 1 and 2. It may be secured to the plate *a a* in any suitable way. *g* is a pressing device that slides upon the screw *f*, and extends laterally to engage the front ends of the hinged rims *d*. *h* is a nut on the screw *f*, designed to move and operate the pressing device *g*. *m* represents a piece of leather placed over the form No. 1, and clamped and crimped by the rim *d*, and illustrates the manner of operating my invention to shape leather into the form of a pad. By placing a piece of leather over each form, Nos. 1 and 2, and then adjusting the hinged rims *d* and the pressing device *g* so as to engage both rims, the operation of the nut *h* will force the press *g* upon the rims and the rims *d* will crimp the leathers *m* over the forms Nos. 1 and 2, and thus simultaneously form two pads at one operation.

I am aware that an apparatus has been constructed by means of which the two parts of a pad may be simultaneously cut by operating a press in the center, and the pad then pressed into dies by hinged followers; but I claim that my combination in which two hinged crimping-rims simultaneously engage the leathers, and stretch and crimp them over two forms, produces an improved harness-maker's implement.

I claim as my invention—

In a harness-pad press, the combination of the forms 1 and 2, the hinged rims *d d*, and the screw-press *f g h*, adapted to depress and hold the rims, all substantially as and for the purposes described.

WILLIAM DIPPERT.

Witnesses:

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