(No Model.)

J. HUGHES.

HARNESS PAD PRESS.

No. 342,259. Patented May 18, 1886.

Fig. 1

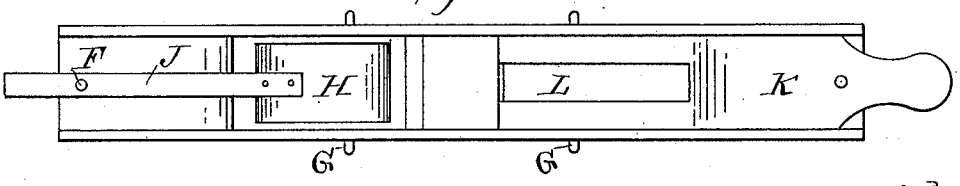


Fig. 2

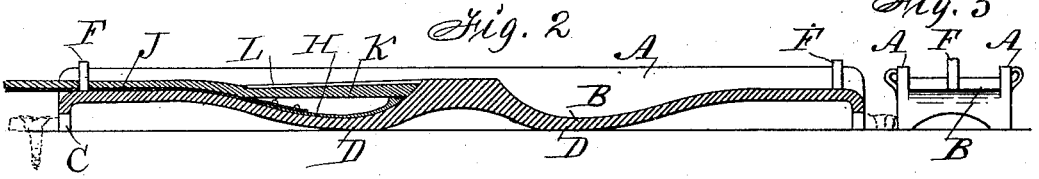


Fig. 3

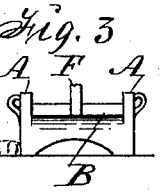


Fig. 4

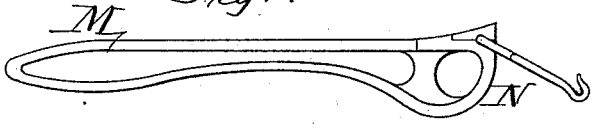


Fig. 5

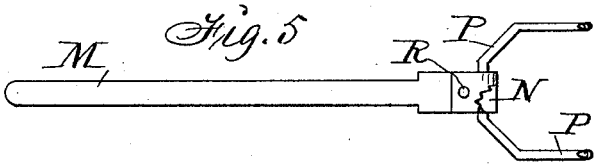
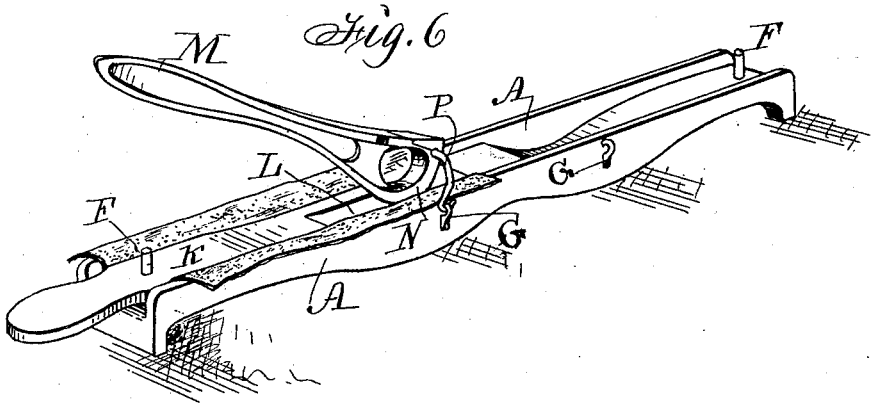


Fig. 6



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Lew Stanton.

Inventor:
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By Thomas G. Orwig, Atty.

UNITED STATES PATENT OFFICE.

JUDSON HUGHES, OF FREMONT, NEBRASKA, ASSIGNOR, BY MESNE ASSIGNMENTS, TO FRED. DE LA MATYR, OF SAME PLACE.

HARNESS-PAD PRESS.

SPECIFICATION forming part of Letters Patent No. 342,259, dated May 18, 1886.

Application filed January 19, 1885. Renewed October 31, 1885. Serial No. 181,484. (No model.)

To all whom it may concern:

Be it known that I, JUDSON HUGHES, of Fremont, in the county of Dodge and State of Nebraska, have invented an Improved Harness-Pad Press, of which the following is a specification.

My object is to save time, labor, and expense in making harness-pads; and my invention consists in the construction and combination of a press-base and duplex die, a pad-form composed of two detachable pieces, and a reversible and detachable hand-lever, as hereinafter fully set forth, in such a manner as to produce a simple, cheap, efficient, and durable pad-press in which a pad-leather can be readily crimped and shaped, and the flat leather cover nailed thereto and the nails clinched before it is removed from the press.

Figure 1 of my accompanying drawings is a top view, and Fig. 2 a vertical longitudinal section, of my press-base die and separable form. Fig. 3 is an end view. Fig. 4 is a side view, and Fig. 5 a top view, of my detachable and reversible hand-lever. Fig. 6 is a perspective view of my complete press, showing a pad-leather between the form and the base and die.

Jointly considered, these figures clearly illustrate the construction, operation, and utility of my complete invention.

A A are the vertical sides of my base and duplex die, and B a web between the two sides, that corresponds in configuration with the shape of the harness-pad which is to be made therein. These sides A and web, die, or bottom B are cast complete in one piece, and may vary in size and weight as desired.

C are flanges formed on the ends and under sides of the complete base to serve as feet.

D D are flat-bottomed sections of the web B, immediately under the concave portions, that are adapted to rest upon a bench or any flat surface upon which the complete press may be placed and operated.

F F are pins fixed in the centers of the opposite ends to project vertically.

G G are perforated ears or hooks formed on or fixed to the sides A.

H (shown in Figs. 1 and 2) is a concavo-convex plate that fits in concaves of the web and die B. It has a handle, J, riveted or otherwise fixed thereto, and a hole in the handle adapted to admit a pin, F.

K is a plate adapted to be placed flat upon the plate H, so that they will jointly produce solid edges to engage the pad-leather. It also has a handle at its end and a hole adapted to admit a pin, F.

L is a depressed surface in its top and center and rear end, in which an eccentric is operated to press the complete former or upper die downward to shape the pad-leather in the lower die.

M is a hand-lever, and N an eccentric formed integral therewith by casting in a mold.

P P are the ends of a rod that terminate with hooks that are adapted to enter the eyes G on the sides A of the base. The complete rod is pivoted to the rear end and top of the lever and eccentric by means of a detachable plate, R, and a screw.

In the practical use of my invention thus constructed I fasten the base A B C D upon a table or bench by means of angle-irons attached to its ends, as indicated by dotted lines in Fig. 2, and lay a pad-leather across the lower die. I next place the former or upper die, composed of the two parts H J and K L, on top of the leather, with the concave side down, and allow the pin F to pass through the perforations in the handles. I next attach the lever and eccentric M N to the base and die, as shown in Fig. 6, and press it downward to cause the eccentric to perform the function of a wedge in forcing the upper die down, and crimping the leather between the concave and convex surfaces of the two dies to make it conform with their shapes. I then remove the lever, lay the top pad-leather upon the top of the plate K, turn the edges of the crimped pad-leather inward, and nail them down upon the top leather, and clinch the nails by means of the metal plate K. I then remove the pad thus formed from the base and under die by simply lifting it to disengage the handles of the upper die and former from the pin F, and then pull out the part K first, and next the part H. By forming the lower die in two parts and providing each with a handle it becomes practical to withdraw the largest portion of the complete

former through the smallest portion of the pad. Each end of a harness-pad may be thus made ready for stuffing in my pad-press very quickly, neatly, and without sewing a stitch.

I claim as my invention—

The improved harness-pad press composed of a base and lower die, A B C D, having pins F and perforated ears G, plates H and K, having perforated handles adapted to jointly engage the pins F, and a lever-handle, M, having an eccentric, N, and pivoted hooks P, substantially as shown and described, to operate in the manner set forth.

JUDSON HUGHES.

Witnesses:
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