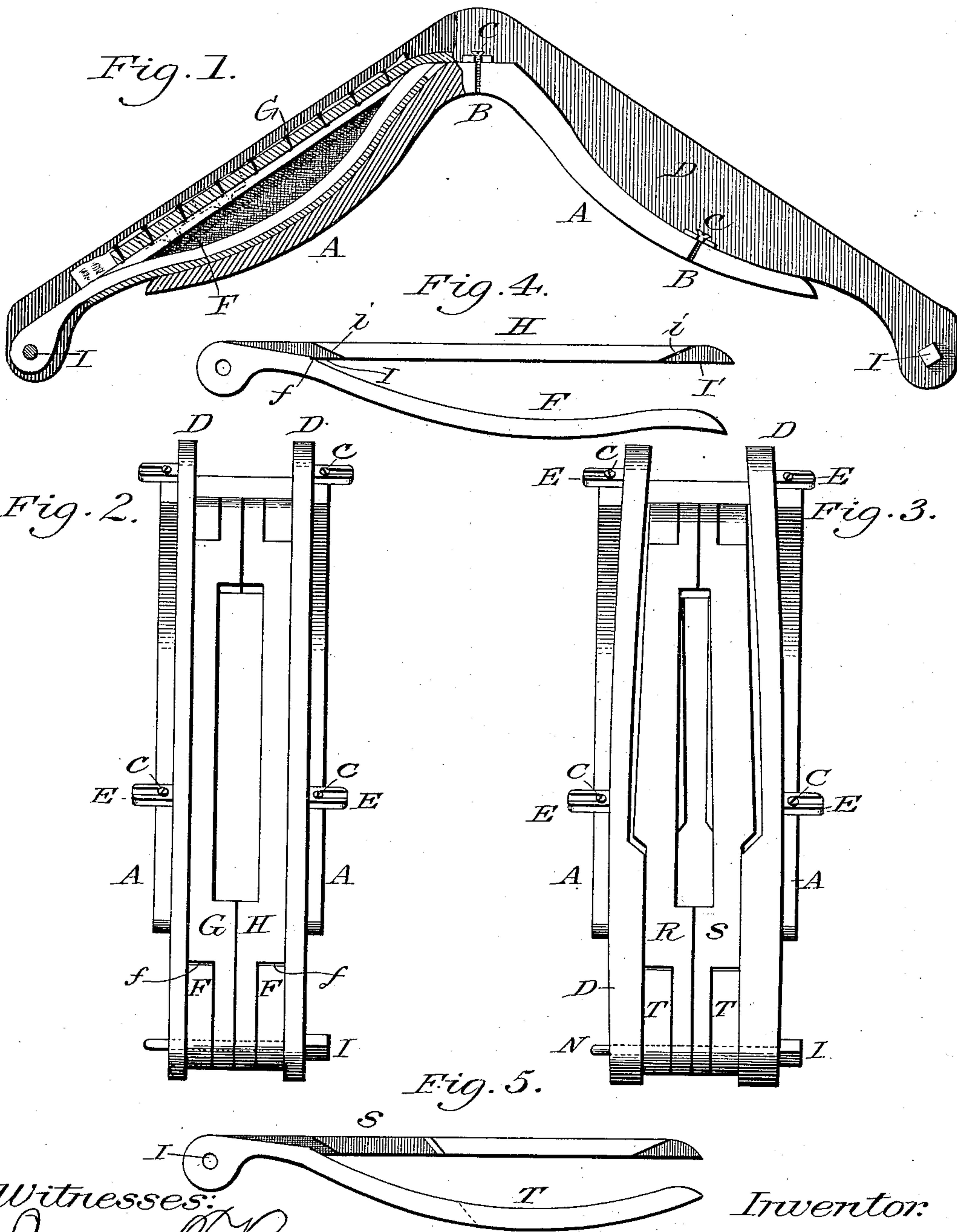


(No Model.)

J. W. JOHNSON.
HARNESS PAD PRESS.

No. 330,710.

Patented Nov. 17, 1885.



Witnesses:
James H. Bacon
John Armstrong
Inventor:
Joseph William Johnson

UNITED STATES PATENT OFFICE.

JOSEPH WILLIAM JOHNSON, OF LATHROP, MISSOURI, ASSIGNOR TO HIMSELF AND MICHAEL GIDLEY, OF SAME PLACE.

HARNESS-PAD PRESS.

SPECIFICATION forming part of Letters Patent No. 330,710, dated November 17, 1885.

Application filed June 13, 1885. Serial No. 168,659. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH WILLIAM JOHNSON, a citizen of the United States, residing at Lathrop, in the county of Clinton and State of Missouri, have invented a new and useful Harness-Pad Press, of which the following is a specification.

My invention is an improvement in harness-pad presses; and it consists in certain novel constructions, combinations, and arrangements of parts, as will be hereinafter described and claimed.

In the drawings, Figure 1 is a longitudinal section of my press. Fig. 2 is a plan view of one side thereof. Fig. 3 is a similar view to Fig. 2 with the side plates constructed to form swelled pads such as used in coach and other heavy harness, and Figs. 4 and 5 are side views of the form and clinch bars shown in respectively Figs. 2 and 3.

In carrying out my invention I employ a base-plate, A, and side plates, D, which are adjustable laterally on the base-plate in order that the device may be used in forming pads of different widths. This is preferably accomplished by means of slotted lugs E, which extend outwardly from the side plates, and bolts C, passed through the slots of such lugs into slots B in the base-plate. By this construction the framing may be readily adjusted to any desired width. The upper face of the base-plate is conformed to the shape it is desired to give the bottom of the pad. The form and clinch bars or irons are pivoted at one end on a bolt, I, passed removably through and between the side plates, near the lower ends of the latter. The form-bars F are conformed on their under edges to the base-plate and rest next the side plates. The upper sides of the form-bars are shouldered slightly at *f*, in order that the clinch-bars may form a smooth joint therewith.

The clinch-bars G H are pivoted at one end on the bolt I between the form-bars, and are shouldered at *i*, forming practically depending portions I', which fit between the form-bars and press such bars out against the side plates. These clinch-bars being pivoted, as described, may be readily and quickly adjusted to set the bars F into clamped position.

The body or main portion of each of the clinch-bars is extended laterally over the form-bar to a line flush with the outer edge of such form-bar, as will be understood, so as to present along the edges a uniform surface against which to clinch the nails which secure the two leathers of the pad.

In Fig. 3 the side bars are formed on their inner edges with recesses, and the form and clinch bars T, R, and S with projecting or swelled portions fitted thereto, so as to form the pad with a swelled portion, as is sometimes desirable.

In operation a piece of suitable leather is placed over the side irons, the form and clinch irons being raised. The form and clinch irons are then pressed onto the leather, forcing it against the base-piece, its edges projecting up between the side plates and said bars. The leather forming the top piece of the pad is then placed on the projecting portions, which are turned in on the clinch-bars, and tacks or nails are driven through the lapped portions of the two leather pieces and clinched against the bars G. The pin I can then be removed and the form and clinch irons removed, when the pad can be stuffed while in the press.

The pivoting of the bars F, G, and H enables such bars to be applied with great force, thoroughly crimping and taking all the stretch out of the leather forming the bottom of the pad.

Having thus described my invention, what I claim as new is—

1. In a harness-pad press, the combination of the base-plate, the side plates, the slotted lugs secured to the side plates, and the bolts passed through said slots into the base-plate, all arranged substantially as described, whereby the side plates may be adjusted to and held in any suitable position, substantially as set forth.

2. In a harness-pad press, the combination of the main frame, a bolt or shaft, the form-bars pivoted to said bolt, and the clinch-bars pivoted on the bolt between the form-bars and having their main portions or bodies extended laterally flush with the outer edges of the form-bars, substantially as set forth.

3. A harness-pad press comprising the fram-

ing having base and side plates, the form-bars, and the clinch-bars placed on the form-bars and having their outer edges extended flush with those of the form-bars, and provided at 5 their inner edges with depending portions, substantially as set forth.

4. The improved harness-pad press herein described, consisting of the base-plate, the side plates having lateral slotted lugs, the bolts 10 whereby such side plates are adjustably secured, the form-bars pivoted between side

plates, and the clinch-bars pivoted at one end between the form-bars, and having their opposite ends provided with depending portions fitting between the form-bars, the body or 15 main portion of the clinch-bars being extended laterally flush with the outer edges of the form-bars, substantially as set forth.

JOSEPH WILLIAM JOHNSON.

Witnesses:

JOHN ARMSTRONG,
JAS. F. BACON.