(No Model.)

J. DION.

WELDING BENCH FOR PLOWS.

No. 386,387. Patented July 17, 1888.

Fig. 1.

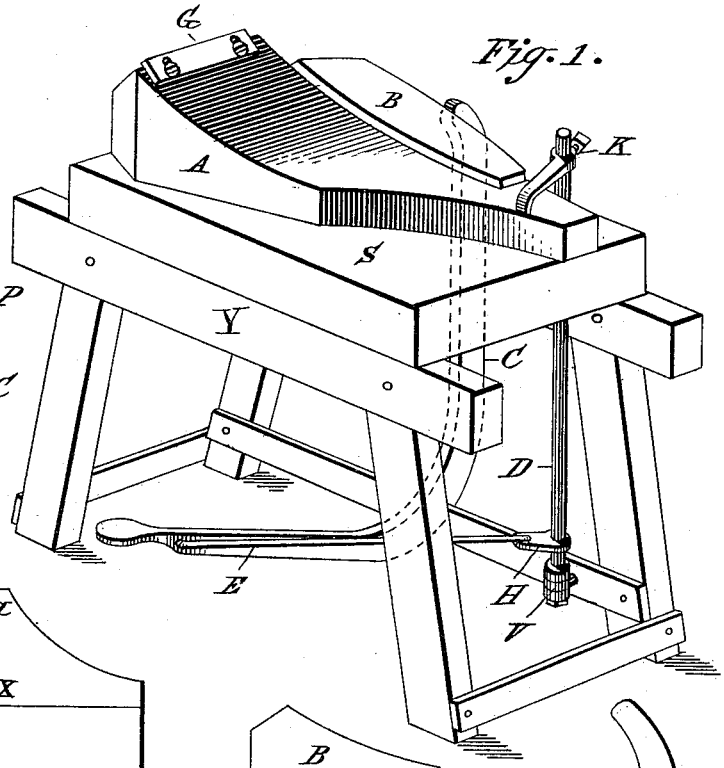
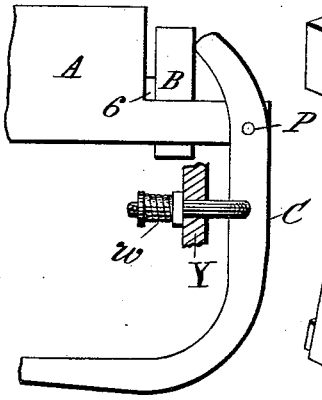


Fig. 3.



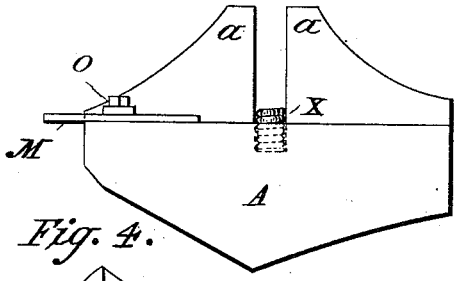


Fig. 4.

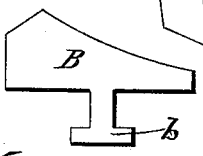


Fig. 5.

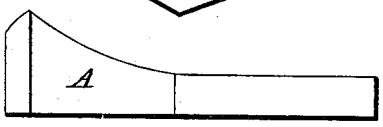


Fig. 6.

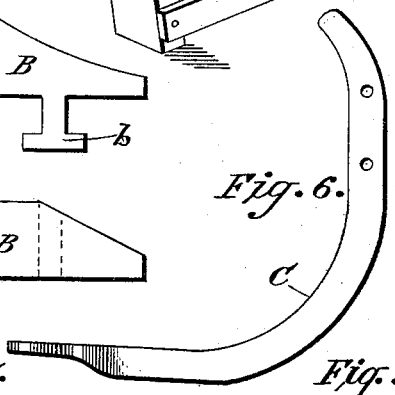


Fig. 2.

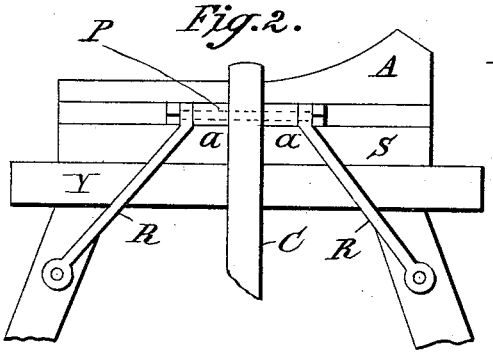
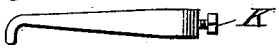


Fig. 7.



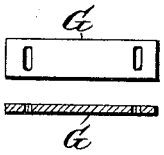
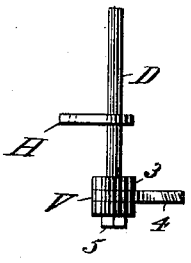


Fig. 8.

Fig. 9.



Witnesses:
D. M. Strong.
[illegible]

Inventor:
Jerry Dion.

UNITED STATES PATENT OFFICE.

JERRY DION, OF NORTH BEND, NEBRASKA.

WELDING-BENCH FOR PLOWS.

SPECIFICATION forming part of Letters Patent No. 386,387, dated July 17, 1888

Application filed August 1, 1887. Serial No. 245,906. (No model.)

To all whom it may concern:

Be it known that I, JERRY DION, a citizen of the United States, residing at North Bend, in the county of Dodge and State of Nebraska, have invented a Welding-Bench upon which to Weld the Landside and Share of a Plow Together, of which the following is a specification.

My invention relates to a machine for securely holding in place the landside in an upright position and the share lying flat on a bed, so as to enable a workman to make the weld more perfectly and more quickly than is usually done upon an anvil. I attain this by the mechanism shown by the accompanying drawings and by the specification herewith.

Figure 1 is a front view of the machine; Fig. 2, a back view of a part of it; Fig. 3, an end view of the same part from the right hand; Fig. 4, a top and front edge view of the bed-plate A; Fig. 5, a top and side view of the clamp B, having a lipped tongue, *b*, projecting down from it, which slides between the two jaws of the bed-plate A, as at *a a* in Fig. 4; Fig. 6, a side view of foot-lever C; Fig. 7, a short lever held fast to top end of shaft D by set-screw; Fig. 8, a gage against which upper edge of share is placed to bring it in true line with landside while being welded; Fig. 9, the lower end of shaft D, showing an upper washer, 3, as bearer on the eyebolt 4, and a lower washer, 5, kept in place by a nut. This arrangement keeps the rod from rising when pressure by K on the top of the share as it lies on bed-plate A is put on by depressing foot-lever C.

Similar letters refer to similar parts throughout.

A is the bed-plate, curved on its upper face, so as to form the share when hammered down upon it, and of weight to bear welding on.

B is a clamp, which, when forced forward by upper end of lever C, holds the landside against the upright face of A, as shown at 6 in Fig. 3.

C is a foot-lever working on its fulcrum P, as shown in Figs. 1, 2, and 3.

D is an upright shaft turning on eyebolt 4 in Fig. 9 at its lower end and in a bushed hole at its upper end in plank S.

E is a connecting-rod from C to H, causing shaft D to turn when C is depressed.

G is a gage for top edge of share.

H is a short lever on D.

K is a bent lever on upper end of D, which, when C is depressed, swings round to the right and holds the share firmly to the top face of bed-plate A.

M is a gage-plate slotted and moving endwise on bolt O, Fig. 4. This holds landside from moving under blows of the hammer while welding.

O is a bolt which holds M.

P is a bolt, the fulcrum of lever C, and, in connection with tie-rods R R, Fig. 2, holds bed-plate down to frame Y.

S is a heavy plank on top of frame, holding all the machinery.

V is a bearing and "hold-down" of shaft D.

W is a spiral spring fast to C. When the foot is taken off of C, this draws lever C forward, throwing top end back, relieving from pressure, while X, another spiral spring, concealed in the body of bed-plate A, Fig. 4, forces the clamp B back and releases the work.

a a represent jaws of A, between which lever C moves, clamp B slides, and spring X operates.

The machine operates in this manner: The landside on edge is placed between A and B at 6, Fig. 3. The share is laid on top of bed-plate A, its top edge against G, the two surfaces to be welded being brought together. Pressure of the workman's foot on lever C forces its top end against B. Then B slides up against landside. At the same moment shaft D turns to the right. Bent lever K swings round, its lower end pressing the share down to bed-plate A. The weld is now made, the foot taken off of C, and the work is released.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The combination of the bed-plate A, having jaws *a a* and curved on its upper face, with the clamp B, having tongue *b*, and foot-lever C, the top edge of which bears against the said clamp, whereby the said clamp is brought against the plate to hold the landside while being welded, substantially as described.

2. The combination of the bed-plate A, curved on its upper face, with the clamp B, the lever C, moving said clamp, the upright shaft D, having bent lever K on its upper end, and the rod E, connecting said shaft to the le-

ver C, substantially as and for the purposes described.

3. The combination of the curved bed-plate A, the gage G at one end of it, the clamp B, the lever C, and spring W, connecting therewith, the rod D, having lever K at its upper end and the short lever H at its lower, the rod E, and the spring X, acting on the clamp, substantially as described.

4. In a welding-bench, a plate fixed to the bed-block and adapted to hold the share, a clamp for holding the landside against said plate, and a spring adapted to operate on said plate, a lever for moving said clamp, and a spring for drawing said lever back, substantially as described.

5. The bed-plate A, having jaws *a* and spring X therein, and the gage M, combined with the clamp B, having a lipped tongue, *b*, a lever operating said clamp, and a swinging lever to hold the share on the bed-plate, substantially as described.

JERRY DION. [L. S.]

Witnesses:
D. M. STRONG,
S. RUFUS MASON.