

UNITED STATES PATENT OFFICE.

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PRESSING-MACHINE.

985,280.

Specification of Letters Patent.

Patented Feb. 28, 1911.

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To all whom it may concern:

Be it known that I, CARL A. OVESON, a citizen of the United States of America, and resident of Chicago, Cook county, Illinois, have invented a certain new and useful Improvement in Pressing-Machines, of which the following is a specification.

My invention contemplates a pressing machine having a plurality of simultaneously adjustable irons; and having a shifting table for moving the work from one position to another below the irons, means being also provided for bringing the irons and table together, by vertically shifting either the irons or the table, as may be found necessary or desirable. I find that a pressing machine thus constructed in accordance with my invention is adapted to do work faster and more conveniently than those heretofore employed for this purpose. The nature and advantages of my invention will, however, hereinafter more fully appear.

In the accompanying drawings, Figure 1 is a front elevation of a pressing machine embodying the principles of my invention. Fig. 2 is a plan of the same. Fig. 3 is an end elevation of the said machine.

As thus illustrated, my invention comprises a body frame composed of upright end members A and lower connecting members B. The spacing blocks b are interposed between the said members B, and a truss rod or brace b' is crossed under said blocks and attached at opposite ends by nuts b² bearing upon the uprights A. The movable bed C comprises four parallel beams c, the two outer beams being longer than the two in the middle. In this way the two outer beams embrace the uprights A and are guided up and down thereby, while the two middle beams engage the inner surfaces of said uprights to prevent endwise displacement of the bed. The said bed C is connected with the frame members B by means of toggles D, which latter are connected for action in unison by a bar d. A spring d' connects said bar d with the frame A, and the length of said bar is such that it engages the frame with one end when the bed is raised and the toggles moved a little past the center. It will also be seen that the other end of the bar d engages the

frame when the bed is lowered. Thus the movement of the toggles is limited in each direction, and the bed is held in either raised or lowered positions. Upon the said bed, and arranged transversely thereof, are a number of slats e', which are separated slightly to give open spaces in the top of the bed. Rods e² are inserted transversely in the bed, and project from one side thereof. The table E is of metal, and is mounted to slide with said rods, and upon the top of the bed. A hand lever F is secured to one of the toggles to operate the same and thereby raise and lower the table at will. The table is held in raised position by the spring d'.

The uprights have recesses a in the upper ends thereof, adapted to receive the ends of the cylindric supporting bar G. This bar is raised and lowered in said recesses by the adjusting screws g, whereby the bar is leveled or brought into correct position relative to the table. Upon this bar G are mounted the irons H of any suitable construction. Each iron has a mounting I by which it is slidingly supported upon the bar G, each mounting having a set screw i, and the two mountings being connected by a rod i'. The rod i' slides in apertures in the tops of the mountings, and is held in adjusted position by the set screws i. In this way the two irons are mounted to slide together on the bar G, and to be given different relative positions. The two irons are connected by a sprocket chain J having springs j, whereby the two irons can be rotated together or in unison. It will be seen that the chain J is divided, one part being applied to one sprocket wheel rigidly secured to an iron and the other part being applied to the other sprocket wheel rigidly secured to the other iron, and that the two sections of the chain are connected by the two springs. In this way the two sections of the chain and the springs are connected to form one continuous connection around the sprocket wheels. The springs permit the moving of the irons toward and away from each other. A handle K on one of the irons enables the operator to place the two irons in any desired position, and to control them at will.

It will be seen that the bed C could be

stationary, and the toggles connected to raise and lower the bar G, without departing from the spirit of my invention.

What I claim as my invention is:

- 5 1. In a pressing machine, a plurality of swiveled irons mounted for adjustment toward and away from each other, and a sprocket chain having springs for connecting said irons, as set forth.
- 10 2. In a pressing machine, a horizontally sliding table, a vertically sliding bed carrying the table, irons above the table, means for raising and lowering the bed to bring the table and irons together and separate
- 15 them, and means including a horizontal supporting bar for permitting adjustment of the irons lengthwise of the table, by sliding motion on said bar, and means for adjusting the ends of the bar.
- 20 3. The combination of irons, a table, a movable bed supporting said table, means for connecting said irons, whereby adjustment of one iron will effect similar adjust-

ment of the other iron, about vertical axes, and horizontally, toggles for operating said bed, means for limiting the motion of the toggles, and means for operating the toggles.

4. In a pressing machine, a round bar, a plurality of mountings supported upon said bar, adapted to turn thereon, an iron depending from each mounting, and a rod adjustably connecting said mountings.

5. In a pressing machine, a round bar, a plurality of mountings supported upon said bar, adapted to turn thereon, an iron swiveled on each mounting, a rod adjustably connecting said mountings, and a sprocket connection having springs between the two irons.

Signed by me at Chicago, Cook county, Illinois, this 16th day of March, 1908.

CARL A. OVESON.

Witnesses:

ALBERT J. SAUSED,
J. NORBY.