(No Model.)

J. W. JONES.

Press for Book Binders.

No. 233,625. Patented Oct. 26, 1880.

Fig. 1.

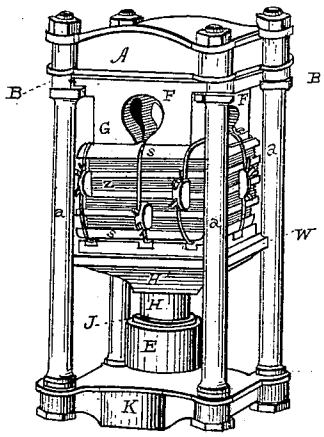


Fig. 2.

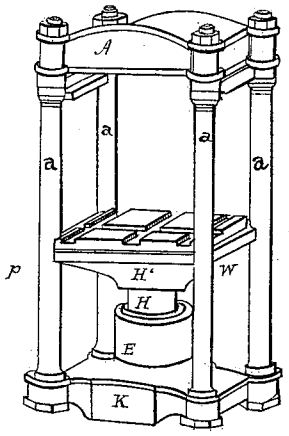


Fig. 3.

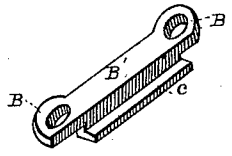


Fig. 4.

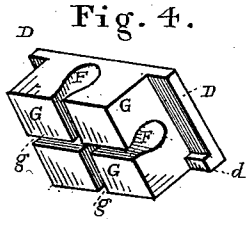


Fig. 6.

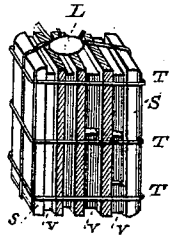
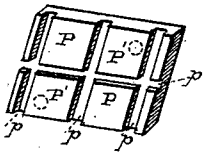


Fig. 5



Witnesses:

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Theophilus Weaver Atty.

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UNITED STATES PATENT OFFICE.

JOSHUA W. JONES, OF HARRISBURG, PENNSYLVANIA.

PRESS FOR BOOK-BINDERS.

SPECIFICATION forming part of Letters Patent No. 233,625, dated October 26, 1880.

Application filed May 31, 1880. (No model.)

To all whom it may concern:

Be it known that I, JOSHUA W. JONES, of Harrisburg, county of Dauphin, Pennsylvania, have invented new and useful Improvements in Presses for Book-Binders, Paper-Makers, and others, my present invention being mainly on modifications of my patent dated June 11, 1878, and numbered 204,741, and of my patent dated March 4, 1879, and numbered 212,947, the principles of which are suitably adapted to refitting and completing hydraulic presses in a novel and useful manner, as set forth in the following specification.

My invention therefore relates to improvements in pressing-machines, hydraulic presses, or other power-presses, in which the press-platen is moved by any suitable power to press the contents thereon against the press-head or opposite end of the press-frame, and in which the compressed matter is tied in peculiar compact bundles or bales, and set aside as soon as tied to incessantly re-engage the press at its special work.

The objects of my improvements are, first, to provide the ordinary press-platen with a removable platen, containing cross grooves or ways thereon for admitting therein the cord, wire, or metal band freely both ways around bundles of paper or other matter packed in the press and under pressure; second, to provide said press-head with a removable cross-slotted block, attached to or arranged upon slides under the press-head, and containing hand-holes or spaces through it for the manipulation of the tying material; third, to tie into compact compressed bundles the entire contents of the press, as press-boards, courses of paper, or other matter, and division-boards, that the pressing need not be delayed by work kept in the press. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of an hydraulic press with my improvements thereon, and having inserted therein a composite bundle of papers and boards tied with my improved ties. Fig. 2 is a perspective view of an hydraulic press containing my added platen, and the slides for the insertion thereon of the improved head-block. Fig. 3 is a perspective view of one of said slides. Fig. 4 is a perspective view of my improved head-block. Fig. 5 is a perspective view of my improved platen. Fig. 6 is a perspective view of one of the composite bundles or bales tied with my improved ties.

Similar letters refer to similar parts throughout the several views.

The hydraulic press-base K is connected in the usual manner with a water-supply and a discharge. The uprights *a a a a* are embraced by the press-head A, which is bolted thereto as usual, excepting that the slides or ledge-pieces B B are first inserted on the said posts, as shown, before said head is put to its place.

The letters E J H H′, respectively, represent the press-cylinder, packing, ram, and press-platen. On the latter is applied my improved removable platen P P, which is provided with the cross-ways *p p p p*, and has on its under side lugs at P′ P′, to properly locate it on the press-platen by allowing said projections to enter corresponding mortises therein.

D D G G represent my improved removable press head-block, which has in it cross-ways, as shown, and as fully described in my former patents, and has enlarged openings F F through it, for passing the hand and the ties readily to place, as required in tying the bales, as shown in Figs. 1 and 6. Said head-block has on it the extensions D D, which slide, drawer-like form, on the ledges C of the slides B B B′. A lug, *d*, is provided, as shown, on the said head-block, that it may be stopped thereby against the end of said ledge C when it is far enough inserted.

I do not limit myself, however, to this method of applying the said block to place under the press-head, as it may be fastened thereto by bolts, and removed from time to time, when desired, by removing them; and supports, on which to rest the flanges of the head-block, may also be attached to the press-uprights in any simple manner.

The bundle shown in Figs. 1 and 6 is composed of press-boards S S and the press-boards V V V, with a collection of folded sheets of paper, Z, interposed between each pair of boards, all subjected to powerful pressure and tied while in that condition by cord, wire, or other metallic bands T T T, pieces whose ends are caught and held by the ties or holders L in positions, as shown.

The press is cleared forthwith as soon as the pressed material is tied, and thus the work of pressing is not delayed, enabling the same press to do much more work than heretofore—as, for example, in paper-making, in which art folded sheets of paper in half-quires, quires, reams, &c., are subjected to hydraulic pressure to secure solid folding or packing. I, however, do not limit my invention to book-binders' and paper-makers' uses, as it can be employed as a general baling-press in the manner hereinbefore set forth.

I am aware that prior to my invention baling-presses employed a permanently-built slotted bottom or platen composed of sills, on which the compressed matter rested until tied into bales. I do not, therefore, broadly claim the slotted platen; but I do claim it when made supplemental and as a removable adjunct to the ordinary plain platen of an hydraulic press or pressing-machine; and I likewise claim my improved press-head when it is made a removable or added part in conjunction with the ordinary press-head.

The novel and useful features of my invention, for which I desire to secure Letters Patent of the United States, are embraced substantially as follows:

1. The removable quartered head-block G, provided with narrow slotted cross-ways *g*, and with enlarged openings F therein, and with attaching projections D *d* thereon, in combination with the press-head A and the supports B′ C, substantially as and for the purposes set forth.

2. The slotted supplemental or removable head-block G, arranged under the press-head A of an hydraulic press, in combination with the channeled base P P, arranged on the tympan or ram of said press for ready insertion of the tying material around bundles of compressed matter while under pressure in the press, substantially as set forth.

In testimony that I claim the foregoing as my invention I have hereunto set my hand this 14th day of May, A. D. 1880.

JOSHUA W. JONES.

Attest:

THEOPHILUS WEAVER,

JNO. D. KINNEARD.