

H. W. SCHOLLER.
 Press for Extracting Water from Starch and other
 Substances.

No. 204,918.

Patented June 18, 1878.

Fig. 1

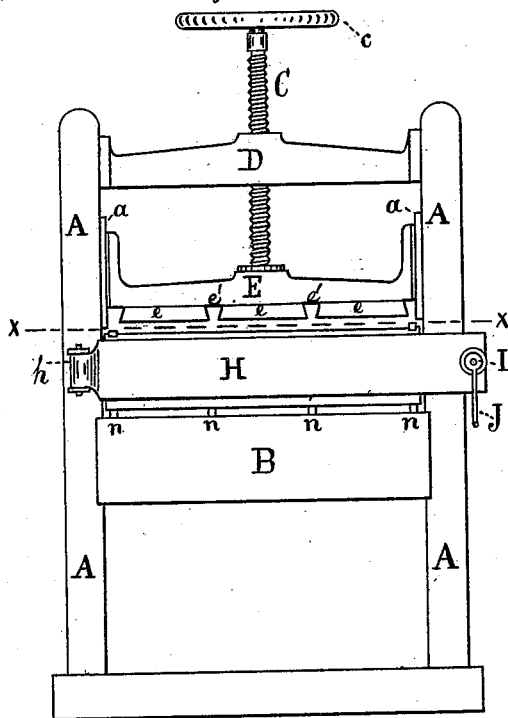


Fig. 2.

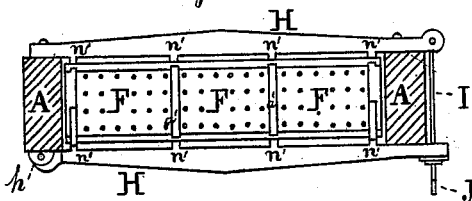
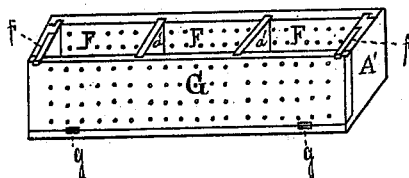


Fig. 3.



WITNESSES:

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UNITED STATES PATENT OFFICE.

HENRY W. SCHOLLER, OF EDINBURG, INDIANA.

IMPROVEMENT IN PRESSES FOR EXTRACTING WATER FROM STARCH AND OTHER SUBSTANCES.

Specification forming part of Letters Patent No. **204,918**, dated June 18, 1878; application filed October 16, 1877.

To all whom it may concern:

Be it known that I, HENRY W. SCHOLLER, of the town of Edinburg, county of Johnson, and State of Indiana, have invented certain new and useful Improvements in Presses for Extracting Water from Starch or other Wet Substance, of which the following is a specification:

Having thus indicated my general purpose, I will now describe the press which I have used for its accomplishment, in connection with the accompanying drawing, in which—

Figure 1 is a side elevation. Fig. 2 is a sectional view, looking downward from the dotted line *x x*; and Fig. 3 is a perspective view of the molds or boxes.

In said drawings, those portions marked A A are standards. B is a cross-beam upon which to place the receptacles containing the starch or other wet substance to be pressed in packages, and which is usually made of considerable size and strength, so that it may withstand the pressure. C is a screw by which pressure is applied. *c* is a drive-wheel thereon, which, when required, may have upwardly-projecting handles between which to insert levers in order to obtain a sufficient pressure when hand-power is used. D is a cross-bar, through which the screw C runs. E is a cross-head, carrying the followers *e e*, each separated from the other by a space, *e'*, for the reception of the partitions *a'* in the box A' when the cross-head E' is brought down to compress the wet substance in the perforated box, and attached to the lower end of the screw.

F F are receptacles in which the wet starch or other wet substance is placed after having been first placed in cloth envelopes to prevent wastage. These receptacles are, preferably, made of wood, perforated, and in the form of boxes, as shown, and separated by partitions *a'*, the front side consisting of the hinged door G. Any material, however, having the necessary strength, and being perforated or porous, would accomplish the same result. The form is merely a matter of convenience. *g g* are hinges on the door G, and *f f* are catches which hold it shut. H H are clamps secured to the sides of the press, which prevent the boxes from bursting when in use. One or both of these clamps are hinged at *h*, so that it or they can be swung back, and thus leave the boxes readily accessible. I is a bolt hinged

to one of the clamps, and arranged to enter a slot in the other, by means of which they are easily fastened together. J is a nut on said bolt, preferably provided with a handle to facilitate turning.

n n are cleats on the cross-beam B, on which the perforated box A rests, and *n' n'* represent similar projections or cleats on the hinged clamps H, which rest against the sides of the perforated box when closed. By this construction, when the perforated box is in position on the cross-beam, with the wet article to be pressed in said box, the clamps H closed, and the follower or cross-head brought down to compress the substance, all the water exuding from the box will readily run off.

The parts A, B, F, and G are preferably made of wood, and the remaining parts of the press are preferably made of metal.

My usual method of using a press for this purpose is to take a quantity of wet starch or other wet granulated substance sufficient to fill the boxes, cloths being first placed in said boxes, so as to form a lining, and to then place it therein, after which I close up and fasten the clamps and apply the power to the press. This will force the greater portion of the water out of the starch through the meshes of the cloth and the perforations or pores of the boxes, leaving the starch or other wet granulated substance in a sufficiently dry and solid condition for the purposes of handling and transportation.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

In a press for extracting water from starch or other granulated wet substance, the combination, with the cross-head E, having a series of followers, *e*, with the spaces *e'* between them, of the perforated and partitioned box A, resting on the cleats *n*, and the hinged clamping-doors H, having cleats *n'*, whereby the water exuding from the wet substance pressed readily escapes, as herein specified.

In witness whereof I have hereunto set my hand and seal, at Indianapolis, Indiana, this 13th day of October, A. D. 1877.

HENRY W. SCHOLLER. [L. s.]

In presence of—
C. BRADFORD,
JOS. A. SAWYER,