

No. 775,347.

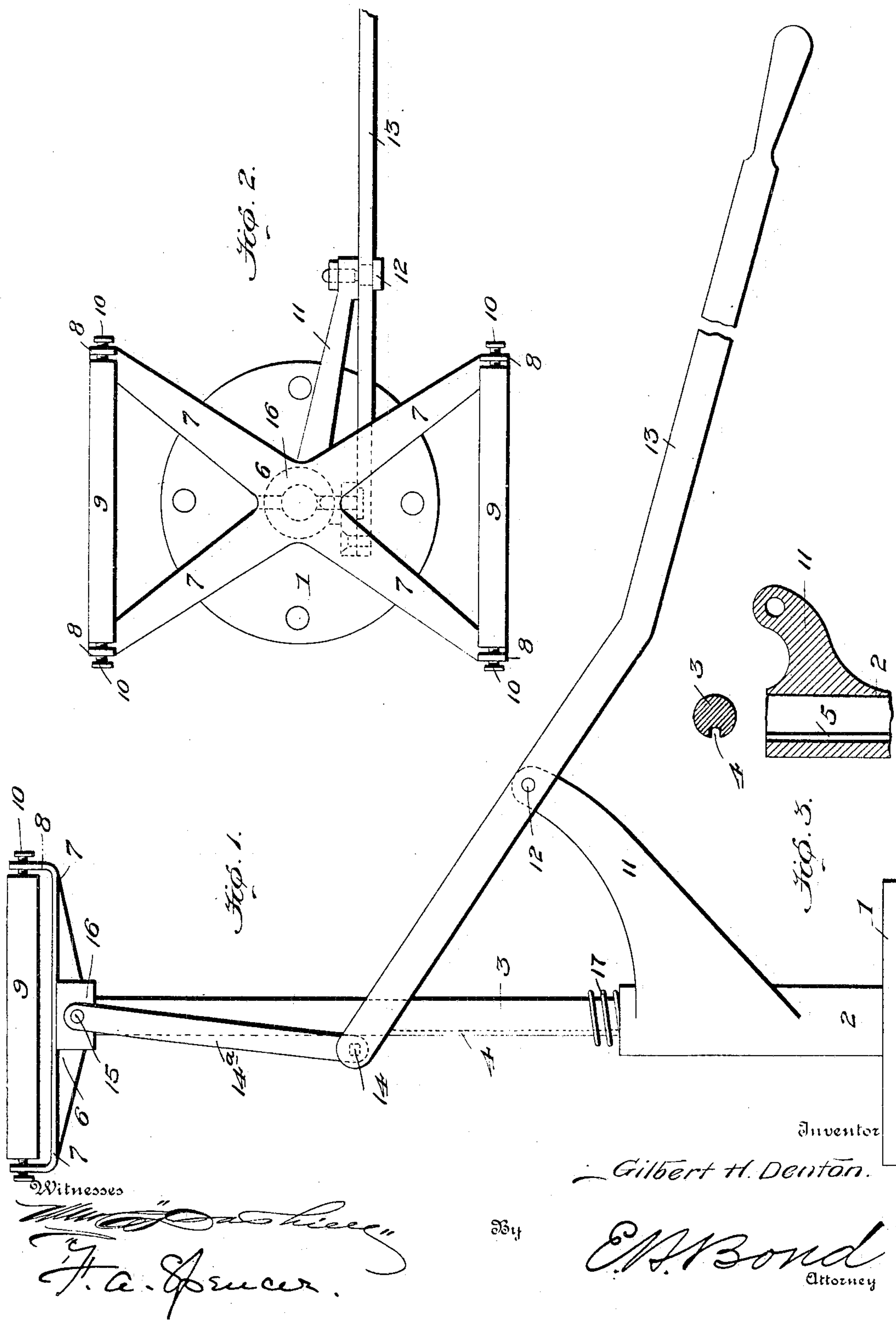
PATENTED NOV. 22, 1904.

G. H. DENTON.

LOWERING STAND FOR PRESSES FOR FORMING BUILDING BLOCKS.

APPLICATION FILED JULY 19, 1904.

NO MODEL.



UNITED STATES PATENT OFFICE.

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LOWERING-STAND FOR PRESSES FOR FORMING BUILDING-BLOCKS.

SPECIFICATION forming part of Letters Patent No. 775,347, dated November 22, 1904.

Application filed July 19, 1904. Serial No. 217,218. (No model.)

To all whom it may concern:

Be it known that I, GILBERT H. DENTON, a citizen of the United States of America, and a resident of Denver, in the county of Denver and State of Colorado, have invented certain new and useful Improvements in Lowering-Stands for Presses for Forming Building-Blocks, of which the following is a specification.

10 This invention relates to certain new and useful improvements in lowering-stands for use in connection with presses for forming building-blocks of plastic material which will harden when seasoned, and while designed primarily for use in connection with a press for forming such articles it is evident that it is not necessarily restricted to such use, and hence in the following claims I do not intend so to limit myself.

20 The present invention has for its objects, among others, to provide an improved lowering-stand upon which the pressed article is designed to be received from the mold after being pressed, the lowering-stand comprising a suitable base or support, a piston or plunger carrying a support, in this instance in the form of a spider, the supporting-frame or spider being provided with longitudinal rollers at opposite sides, and means being provided whereby the frame and its rollers may be easily raised to receive the pressed article and then lowered to take the same away from the mold and leave the latter free to be again filled and manipulated to form another article.

35 The piston or plunger is held against turning in its support, which is in the nature of a hollow standard, and the actuating means is such that the power is applied in practically a direct vertical line.

40 Other objects and advantages of the invention will hereinafter appear, and the novel features thereof will be specifically defined by the appended claims.

45 The invention in its preferred form is clearly illustrated in the accompanying drawings, which, with the numerals of reference marked thereon, form a part of this specification, and in which—

Figure 1 is an elevation of the improved

lowering-stand. Fig. 2 is a top plan thereof 50 with the operating-lever broken off. Fig. 3 is a sectional detail showing the plunger in cross-section and the plunger-receiving standard in vertical section and broken away.

Like numerals of reference indicate like 55 parts throughout the several views.

Referring now to the details of the drawings, 1 designates a base or support for the stand. Rising therefrom is the hollow standard 2, within which the plunger 3 is designed 60 to be received. Some suitable means should be provided for preventing the plunger or piston 3 from turning in its standard—such, for instance, as by making one of the parts, as the plunger, with a longitudinal groove 4, 65 adapted to be splined into the rib or spline 5 on the interior of the bore of the standard 2, as seen in Fig. 3. It is evident, however, that a reversal of the parts would produce the same result and that the same effect may 70 be brought about by other means.

The plunger or piston supports a supporting-frame, which in this instance is in the nature of a spider 6, the outer ends of the arms 7 of which are turned up, as seen at 8, to 75 form bearings for the pintles or shafts of the rollers 9, which extend longitudinally parallel with each other at opposite sides of the spider, as seen best in Fig. 2. In this instance the rollers are shown as detachably or 80 removably mounted by means of the adjusting-screws 10, held in the upturned ends of the arms of the spider and engaging the ends of the rollers.

The standard is formed with an upwardly 85 and outwardly extended arm 11, in the upper outer end of which is pivotally mounted, as at 12, the operating-lever 13, one end of which is pivotally connected, as at 14, with the arm 14^a, which in turn is pivotally attached, as at 90 15, to the hub 16 of the spider. It is to be noted that the construction and disposition of the actuating means is such that the power is applied in a substantially direct vertical line, whereby the platform or spider and its 95 accessories can be easily moved up or down, requiring but little power.

17 is a spring around the plunger or piston,

as shown, being located at the upper end of the hollow standard for the purpose of preventing the platform from coming in contact with the standard.

5 With the parts constructed and arranged substantially as described and shown the operation is as follows: The lowering device is adapted to be located in proximity to the press, and after the building-block or other
10 article has been molded and pressed the mold is run out over the lowering-stand, and after the presser-plate or other plate or cover to the mold has been removed and the block ready to be disengaged from the mold the
15 mold is inverted over the lowering device, the latter being elevated to the proper height, and the block then delivered onto the rollers of the spider, upon which the block rests till the stand is lowered to the proper position,
20 when the block can be easily and quickly removed from the stand, the rollers facilitating its removal without injury to the block, as will be readily understood.

Modifications in detail may be resorted to
25 without departing from the spirit of the invention or sacrificing any of its advantages.

What is claimed as new is--

1. A device for the purpose described, comprising a roller-support for the molded article, and pivotal means pivotally connected
30 with said support for raising and lowering the same.

2. A device of the character described comprising a vertically-movable plunger, a support therefor, and a frame carried by said
35 plunger and provided with rollers and pivotal means pivotally connected with said frame.

3. A device of the character described, comprising a vertically-movable plunger, a base
40 with hollow standard receiving said plunger, a supporting-frame carried by the plunger, pivotal means pivotally connected with said

frame and longitudinal parallel rollers carried at opposite sides of the said frame.

4. A device of the character described comprising a vertically-movable plunger, a support therefor, a frame carried by the plunger and provided with rollers, and means for actuating said frame, said means being disposed
45 to exert power in a substantially direct vertical line.

5. A device of the character described comprising a vertically-movable plunger, a hollow standard in which it is received, a spider carried by the plunger and having arms with up-
50 turned ends, and rollers journaled in said upturned ends.

6. A device for the purpose specified, comprising a vertically-movable plunger, a spider carried thereby and having rollers at its opposite sides, a hollow standard receiving said
55 plunger, an operating-lever fulcrumed on said standard and an arm connecting the end of said lever with a hub on the spider.

7. A device for the purpose specified, comprising a hollow standard with base and upwardly-extending arm, a plunger movable in
60 said standard, a roller-support carried by the plunger, and a lever fulcrumed on said arm and connected with the said support near its center.

8. In a device of the character described, a roller-support, a plunger carrying the same, a hollow standard receiving the plunger, a lever fulcrumed on said standard, and an arm
65 pivotally connected with the lever and with the said support near its center to exert its force in direct vertical line.

Signed by me at Denver, Colorado, this 16th day of July, 1904.

GILBERT H. DENTON.

Witnesses:

EMMA L. KEMP,
D. M. KELLEY.