

A. O. DUPUY.
 PALLET FEEDER FOR MOLD DUMPING MACHINES.
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1,288,534.

Patented Dec. 24, 1918.

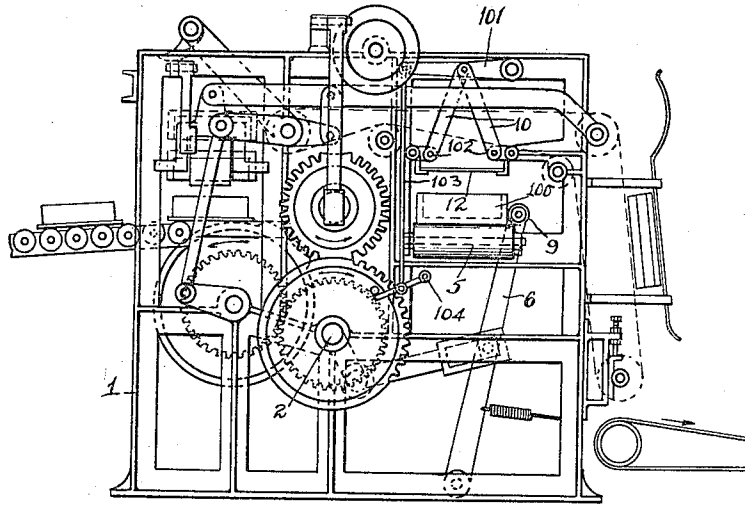


FIG. 1

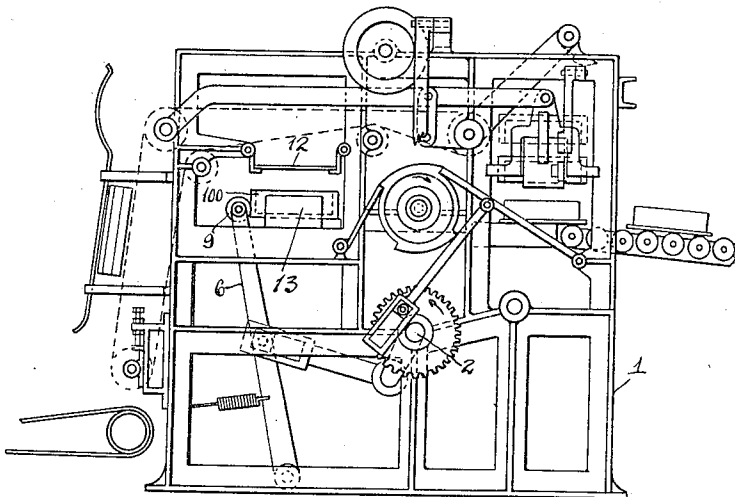


FIG. 2

INVENTOR
 Arthur O. Dupuy
 BY Say. Oberlin & Say
 ATTORNEYS.

UNITED STATES PATENT OFFICE.

ARTHUR O. DUPUY, OF CLEVELAND, OHIO, ASSIGNOR TO THE C. O. BARTLETT & SNOW COMPANY, OF CLEVELAND, OHIO, A CORPORATION OF OHIO.

PALLET-FEEDER FOR MOLD-DUMPING MACHINES.

1,288,534.

Specification of Letters Patent.

Patented Dec. 24, 1918.

Original application filed March 23, 1915, Serial No. 16,371. Divided and this application filed April 30, 1917. Serial No. 165,644.

To all whom it may concern:

Be it known that I, ARTHUR O. DUPUY, a citizen of the United States, and a resident of Cleveland, county of Cuyahoga, and State of Ohio, have invented a new and useful Improvement in Pallet-Feeders for Mold-Dumping Machines, of which the following is a specification, the principle of the invention being herein explained and the best mode in which I have contemplated applying that principle, so as to distinguish it from other inventions.

The present improvements relate to pallet-feeding mechanism for mold dumping machines in general, and in particular for a mold dumping machine of the character described in my co-pending application Serial No. 16,371, filed March 23, 1915, now Patent No. 1,227,764 out of which application the subject matter of the present case has been divided. To the accomplishment of the foregoing and related ends, said invention, then, consists of the means hereinafter fully described and particularly pointed out in the claims.

The annexed drawings and the following description set forth in detail certain mechanism embodying the invention, such disclosed means constituting, however, but one of various mechanical forms in which the principle of the invention may be used.

In said annexed drawings:—

Figure 1 is a side elevation of the machine, and Fig. 2 is an elevation of a machine showing the other side.

The machine comprises a suitable frame built up of suitable members 1, in which there is rotatably mounted upon a horizontal axis a main driving shaft 2. The molds when brought from the press, enter the machine upon a conveyer consisting of spaced rolls 5 mounted at the right end of the machine as shown in Fig. 1. The rollers 5 which are within the machine, are not driven, but are merely free to rotate, and the mold box or mold 70 is stopped in the desired position upon these rolls by contacting a flange 13 attached to the frame. The mold is then positioned transversely of the machine and adjacent to the inverting mechanism. The conveyer for transporting the molds from the brick press to the present

machine will cooperate with the rolls 5 but is not here shown.

It is unnecessary to describe in detail the machine, as such machines are, in general, well known and this specific machine is clearly described in my co-pending application above referred to. It is sufficient to say that the machine is adapted to receive a filled mold box bearing a pallet or thin metal plate on its open upper face, invert the same, and lift the mold box from off the bricks which remain on the pallet. The present invention is directed to mechanism for automatically placing a pallet upon the top of each mold box just prior to its inversion.

The progress of the mold boxes through the machine is intermittent, and each mold is stopped at frequent intervals. The first of these stops leaves a mold box 100 on the rollers 5 in front of a pusher bar 6 and roller 9, and directly beneath the pallet feeding mechanism. This latter device consists of pivoted links 10, each pivotally connected to one end of a bell crank lever or bracket 101, the other ends 102 of these levers being directed toward each other and serving to hold them between a pallet 12, which may be manually or otherwise placed thereon at a suitable time.

The upper ends of the links 10 are connected to a rod 103 attached to an oscillatory shaft 104, which may be connected to suitable driving mechanism in the machine to cause it to rock and depress the links 10 in order to swing apart the arms 102 and drop the pallet 12 therefrom upon the mold box 100. For proper cooperation with the other parts of the machine the arms 102 are preferably operated to drop the pallet slightly ahead of the mold, that is with the left edge of the pallet extending slightly over the left edge of the mold box, but this is, of course, a matter of convenience only.

Obviously, the simultaneous swinging of the arms 102 will cause the pallet to drop flatly upon the mold box, while its position thereon can be accurately determined by the position given the arms above the mold. Either manual or mechanical feeding may be employed for the pallet mechanism.

Other modes of applying the principle of my invention may be employed instead of

the one explained, change being made as regards the mechanism herein disclosed, provided the means stated by any of the following claims or the equivalent of such stated means be employed.

I therefore particularly point out and distinctly claim as my invention:—

1. In a mold-dumping machine, the combination of spaced movable brackets adapted to receive a pallet therebetween, and means adapted to actuate said brackets to release a pallet therefrom.

2. In a mold-dumping machine, the combination of spaced movable brackets adapted to receive a pallet therebetween, and means adapted to simultaneously actuate said brackets to release a pallet therefrom and permit the same to fall in a horizontal position.

3. In a mold-dumping machine, the combination of coöperative pivotally mounted brackets adapted in one relation to hold a

pallet therebetween, and means adapted to actuate said brackets to release a pallet therefrom.

4. In a mold-dumping machine, the combination of coöperative pivotally mounted brackets adapted in one relation to hold a pallet therebetween, connections between said brackets adapted to produce simultaneous movement thereof, and means adapted to actuate said connections to swing said brackets and release a pallet therefrom.

5. In a mold-dumping machine, the combination of coöperative pivotally mounted brackets adapted in one relation to hold a pallet therebetween, extending lugs on said brackets, arms pivotally connected to said lugs and to each other, and means adapted to actuate said arms to simultaneously swing said brackets and release a pallet therefrom in a horizontal position.

Signed by me, this 28th day of April, 1917.
ARTHUR O. DUPUY.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents Washington, D. C."