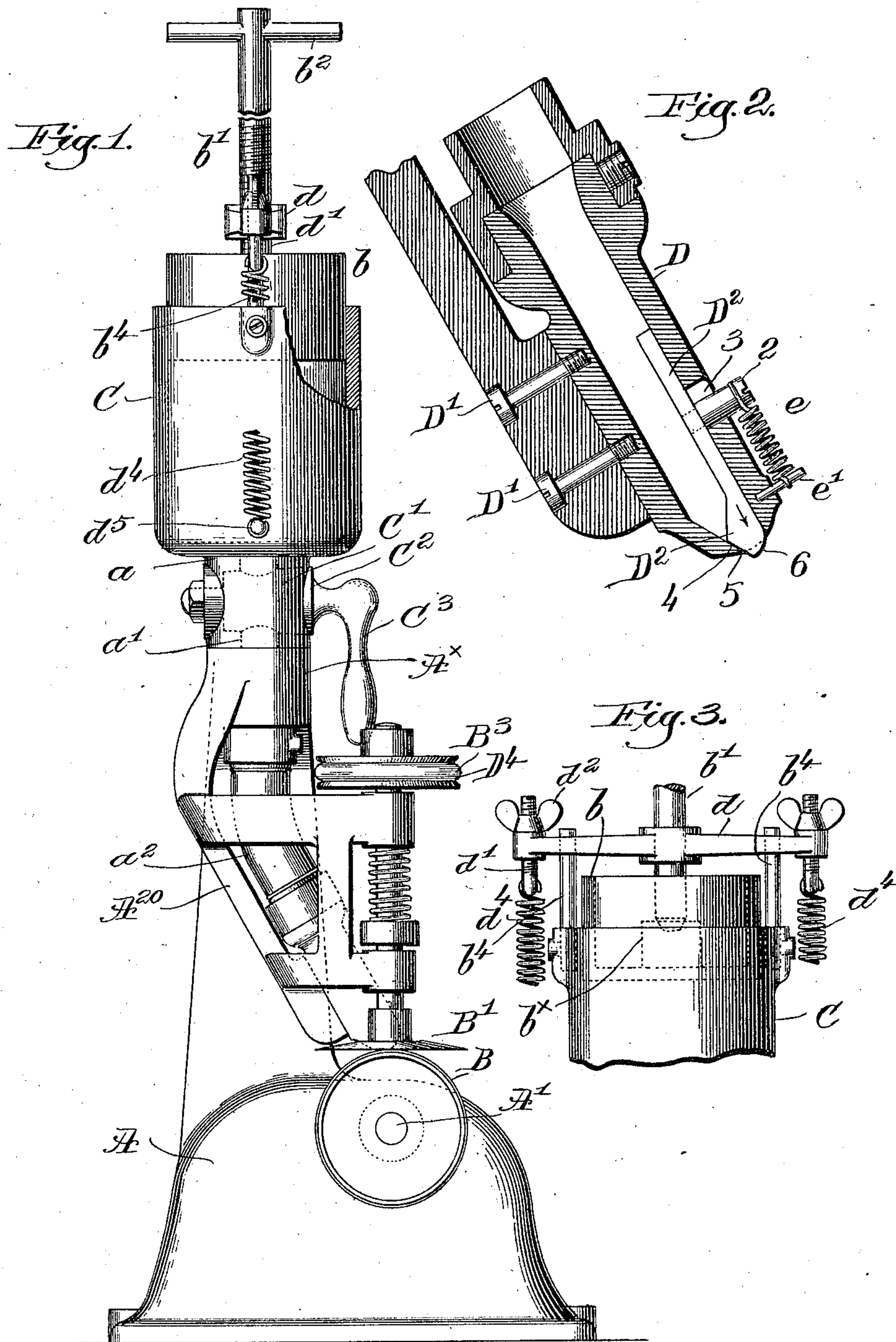


E. E. C. PACKARD.
CEMENT APPLYING MECHANISM.
APPLICATION FILED FEB. 8, 1907.

996,881.

Patented July 4, 1911.



Witnesses
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UNITED STATES PATENT OFFICE.

EZRA E. C. PACKARD, OF LYNN, MASSACHUSETTS.

CEMENT-APPLYING MECHANISM.

996,881.

Specification of Letters Patent.

Patented July 4, 1911.

Application filed February 8, 1907. Serial No. 356,308.

To all whom it may concern:

Be it known that I, EZRA E. C. PACKARD, a citizen of the United States, residing in Lynn, county of Essex, and State of Massachusetts, have invented an Improvement in Cement-Applying Mechanism, of which the following description, in connection with the accompanying drawing, is a specification, like letters on the drawing representing like parts.

This invention has for its object to provide a novel cement applying machine for delivering cement on the surface of stock on a stock support, or being fed through the machine.

In accordance with my invention, I have combined with suitable mechanism herein shown as of the class employed in ordinary skiving machines, a receptacle to receive cement, and a cement delivery nozzle provided with a valve that is moved within the nozzle by contact of the exposed end of the valve with the stock sustained by any usual stock feeding wheel or support, said valve having a connected spring that acts when the stock is absent from the feeding wheel to maintain the valve closed.

Figure 1 in front elevation shows part of a machine with which I have embodied my invention in one of the best forms now known to me; Fig. 2 is an enlarged sectional detail of the nozzle and its valve closed; and Fig. 3 a detail showing the upper end of the receptacle.

The framework A, the shaft A' on which is mounted the stock-feeding wheel B, the disk presser B' for acting on the upper side of the stock sustained on the feeding wheel, its carrying shaft B² and wheel B³ driven by belt D⁴ driven from any usual pulley at the opposite end of shaft A', are and may be all as usual.

I have mounted on the end of the overhanging arm A^x of the framework, a receptacle C for cement or other liquid adhesive, said receptacle having at its lower end a foot C' having a hollow shank extended through said arm, said foot being provided with a passage for the reception of a cock C² having a handle C³ and a transverse opening, a port α leading from said receptacle to said opening, a second port α' leading through said shank into a suitable flexible tube α^2 , cement passing from said receptacle through said cock when opened

into a nozzle D secured to a depending portion A² of the framework in suitable manner as by screws D'. The nozzle D is rigidly secured in place and its end therefore occupies a fixed distance from the feeding wheel or stock-support.

The upper end of the receptacle C has fitted closely therein a hollow plunger b that rests on the top of the cement in said receptacle, the plunger having an inturned hub b^x , see Fig. 3, on which acts the lower end of a screw b' having a handle b^2 by which the screw may be turned to force the plunger into the receptacle to force the cement therefrom through the open cock C² into the nozzle. The receptacle has two rods b^4 that serve as guides for the cross head d that sustains the screw b' . The cross head has at its ends screw rods d' made adjustable vertically by thumb nuts d^2 , said rods having connected to their lower ends the upper ends of springs d^4 attached at their lower ends to studs d^5 .

The valve D² has a stud 2 that is extended outwardly, see Fig. 2, through a slot 3 in the nozzle where said stud has connected with it a spring e attached at its opposite end to a stud e' fixed to part of the nozzle, said spring acting normally to move said valve in the direction of the arrow thereon, Fig. 2, so that its inclined face 4 is held firmly on the inclined seat 5, the lower end or toe 6 of the valve extending beyond the lower end of the nozzle, the extremity of said toe when the valve is closed being arrested a short distance from the upper side of the feeding wheel.

When stock to be cemented is laid on the feeding wheel the upper side of the stock by contact with the toe 6 of said valve D² raises the same slightly in the nozzle against the stress of the spring e , thus forming a space between the face 4 and seat 5 through which cement may issue onto the stock.

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

In a machine of the character described the combination of stock supporting and feeding means, a receptacle for cement, a nozzle connected to said receptacle and having its mouth at a fixed distance from and close to said stock-supporting means and provided with an inclined valve seat at its mouth, a valve for said nozzle having an in-

clined face coöperating with the said inclined seat and having a rounded toe portion, the said valve standing normally with its toe portion projecting somewhat from
5 and closing the nozzle mouth, whereby when the stock is fed over said stock-supporting means it acts upon the toe portion of the valve and pushes the valve into the nozzle, thus permitting a limited amount of cement
10 to escape directly onto the stock and pre-

venting the escape of any cement when no stock is beneath the nozzle mouth.

In testimony whereof, I have signed my name to this specification, in the presence of two subscribing witnesses.

EZRA E. C. PACKARD.

Witnesses:

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