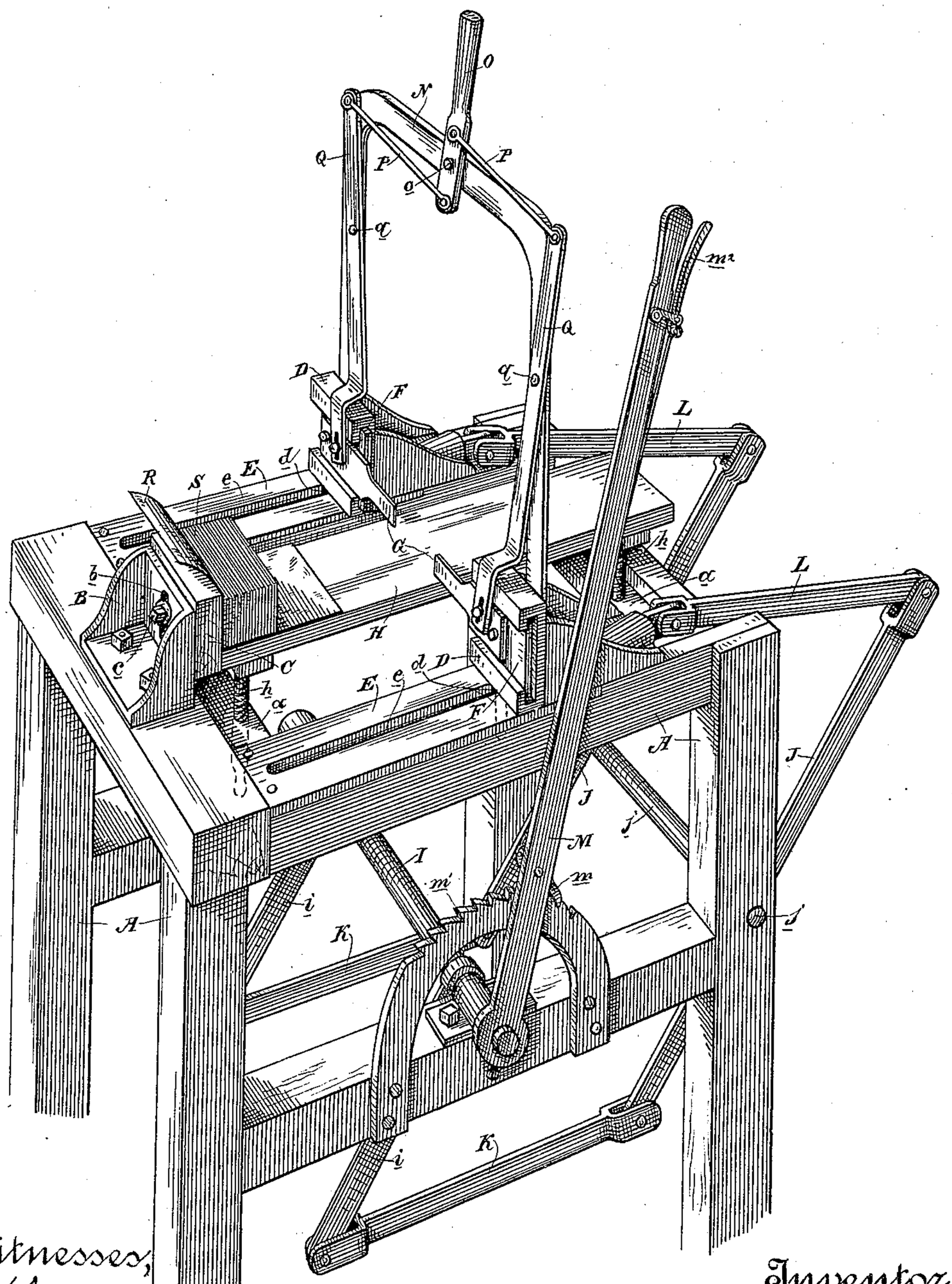
(No Model.)

W. A. BROWN.

WRAPPING MACHINE.

No. 466,075. Patented Dec. 29, 1891.



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UNITED STATES PATENT OFFICE.

WILLIAM A. BROWN, OF SAN FRANCISCO, CALIFORNIA, ASSIGNOR OF ONE-HALF TO ARTHUR G. TOWNE, OF SAME PLACE.

WRAPPING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 466,075, dated December 29, 1891.

Application filed April 17, 1891. Serial No. 389,353. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM A. BROWN, a citizen of the United States, residing in the city and county of San Francisco, State of California, have invented an Improvement in Wrapping-Machines; and I hereby declare the following to be a full, clear, and exact description of the same.

My invention relates to the class of machines for wrapping parcels of all kinds, and especially for wrapping packages of bags.

It consists in the novel construction, combination, and arrangement of parts hereinafter described, and specifically pointed out in the claims.

The object of my invention is to provide a simple and effective machine for tightly compressing the parcel within the partially-surrounding wrapper until said wrapper is properly pasted or otherwise secured, and then relieving said wrapped parcel.

Referring to the accompanying drawing for a more complete explanation of my invention, the figure is a perspective view of my wrapping-machine.

A is the frame or stand of the machine. Upon one end of the frame is a bracket B, to the face of which is adjustably secured the abutment-block C, the connection being formed by means of a pin or bolt *c*, extending rearwardly from the block and passing through a vertically-elongated slot *b* in the bracket, whereby said abutment-block can be raised or lowered to accommodate itself to the different sizes of packages to be wrapped.

Mounted upon suitable tracks or guides on each side of the frame top are the reciprocating carriages D. The guides upon which these carriages move may be of any suitable construction. I have here shown them as consisting of castings E, secured to the frame-top and having elongated longitudinal slots *e*, through which pass pins *d*, secured above to the carriages and guided under the castings.

In the faces of the carriages D are mounted horizontally-sliding plates F, in suitable guides, and to said plates are secured inwardly-extending presser-arms G.

Upon the central portion of the frame top is mounted a vertically-movable platform H, adapted to be raised or lowered to suit the different sizes of packages by means of screws *h*, which extend downwardly and are seated in nuts *a*, secured to the main frame A.

The carriages are reciprocated by means of the following mechanism: Mounted transversely of the frame or stand A below is a rock-shaft I, having crank-arms *i*. J are levers pivoted upon a shaft *j*. The lower ends of these levers are connected with the crank-arms *i* of the rock-shaft I by means of links K, and their upper ends are connected with the backs of the carriages D by means of links L. An operating-lever M has its lower end connected with the rock-shaft I, whereby said shaft is operated, and said lever has a controlling-pawl *m*, adapted to engage a rack *m'* below, said pawl being operated by the usual handle m^2.

The slide-plates F, with their attached and inwardly-extending presser-arms G, are moved horizontally to and from each other by the following mechanism: Rising from the carriages is a standard bail N. To the top of this bail is pivoted at *o* a lever O. From this lever extend links P, connected with the lever on each side of its pivotal point, and said links have their outer ends connected with levers Q, which are pivoted to the standard bail N at the points *q*, and have their lower ends attached to the presser-arms G or their sliding plates F, here shown as being connected with the presser-arms.

The operation of the machine is as follows: The abutment-block C and the platform H having been adjusted to suit the size of package, the wrapping-paper (represented by R) is laid upon the platform with one end extending upwardly in front of and above the abutment-block C. The package to be wrapped (represented by S) is then laid upon the paper against its bend or fold. The lever O is moved in order to carry the presser-arms G inwardly close together, and then the lever M is operated to move the carriages D and the presser-arms G forward until said arms come in contact with the exposed end of the package, which is thereby pressed tightly against the abutment-block. The lower end of the paper is then drawn upwardly around

behind the presser-arms G and its upper end is drawn down over the top of the package. The two ends are then pasted or otherwise secured together tightly. The lever O is now moved in the reverse direction to withdraw the presser-arms G from the paper, and when they are fully withdrawn the lever M is then moved to withdraw the carriages D with the presser-arms G. Thereupon the package, relieved of the pressure, springs out and firmly tightens the wrapping-paper about itself.

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

1. In a wrapping-machine, the combination of an abutment-block against which the partially-wrapped package is placed, transversely-reciprocating presser-arms adapted to come in contact with and press the package until the wrapper is wound about it and secured, and means for transversely withdrawing said arms from the wrapper of the package, substantially as herein described.

2. In a wrapping-machine, the combination of a vertically-adjustable abutment-block against which the partially-wrapped package is seated, transversely-reciprocating presser-arms adapted to bind against the opposite side of the package and hold it until the wrapping-paper is secured about it, and means for withdrawing said arms transversely to free the wrapped package, substantially as herein described.

3. In a wrapping-machine, the combination of an abutment-block against which the partially-wrapped package is seated, a vertically-adjustable platform upon which said package rests, reciprocating presser-arms for holding the package until the wrapper is secured about it, and means for withdrawing the presser-arms transversely from the wrapped package, substantially as herein described.

4. In a wrapping-machine, the combination of an abutment-block against which the partially-wrapped package is seated, reciprocating carriages adapted to be moved to and from the package, and transversely-sliding arms carried by the carriages and adapted when moved together to bind and hold the package until the wrapper is bound about it, and then to withdraw from the wrapped package and be removed therefrom by the reciprocating carriages, substantially as herein described.

5. In a wrapping-machine, the combination of the abutment-block, the reciprocating carriages, the transversely-sliding plates mounted on the carriages, and the presser-arms carried by the slide-plates, substantially as and for the purpose herein described.

6. In a wrapping-machine, the combination of the adjustable abutment-block, the adjustable platform, the reciprocating carriages, the transversely-sliding plates mounted on the carriages, and the presser-arms carried by the sliding plates, substantially as and for the purpose herein described.

7. In a wrapping-machine, the combination of the abutment-block, the reciprocating carriages having the transversely-sliding presser-arms and the means for operating said carriages, consisting of the rock-shaft, the lever connected with said shaft, the crank-arms of said shaft, the pivoted levers, and the links connecting said levers with the crank-arms of the rock-shaft and with the carriages, substantially as herein described.

8. In a wrapping-machine, the combination of the abutment-block, the reciprocating carriages having the transversely-sliding presser-arms, and the means for operating said presser-arms, consisting of the lever O, the levers Q, connected with said arms, and the links connecting the levers O and Q, substantially as herein described.

9. A wrapping-machine consisting of the frame or stand, the vertically-adjustable abutment-block thereon, the vertically-adjustable platform, the sliding carriages having the horizontally-sliding plates and the presser-arms carried by the slide-plates, the rock-shaft with its operating-lever and connections from said rock-shaft to operate the carriages, the lever O, the levers Q, connected with the presser-arms, and the links connecting the levers O and Q, whereby said arms are operated, substantially as herein described.

In witness whereof I have hereunto set my hand.

WILLIAM A. BROWN.

Witnesses:
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