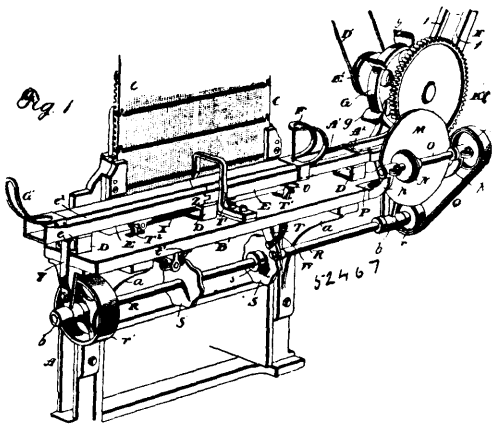
travelling mandrel, means for forming a box part on the mandrel, a pinion and rack mechanism for rotating the mandrel a label-holder adapted to move along with the mandrel, the follower for feeding a label to a box part upon the mandrel, means for alternately lifting and dropping said follower, and means for moving the label-holder to and from the path of the mandrel, substantially as and for the purpose specified. 9th. In a label-affixing machine, the combination of a label-holder, the follower for feeding labels therefrom having a rod or stem, the rocking pawl or grip through which the latter passes, the reciprocating plate engaging said pawl, and moving the same and the rod, and a relatively fixed part to engage the pawl to release the rod therefrom, substantially as and for the purpose specified. 10th. In a label-affixing machine, the combination of a label-holder, the follower for feeding labels therefrom, having a rod or stem, a clutch device adapted to be engaged with and disengaged from said rod, means connected with said clutch device for moving the follower away from the labels, and means to disengage said clutch device from the rod to permit movement of the follower in the opposite direction, substantially as and for the purpose specified. 11th. In a label-affixing machine, the combination of the label-holder, the follower for feeding labels therefrom, having a rod or stem, a pawl adapted to be moved into and out of engagement with the rod, means connected with said pawl for raising the same and said follower, and means to disengage the pawl and rod to permit the follower to drop, substantially as and for the purpose shown. 12th. In a machine for making box parts, the combination of the travelling mandrel, means for forming a box part thereon, a pinion and rack mechanism for rotating the mandrel, a paste-applying device in the path of the mandrel, a label holder and means to feed labels therefrom, substantially as and for the purpose described. 13th. In a machine for making box parts, the combination of the travelling mandrel, means for forming a box part on the mandrel, a pinion and rack mechanism for rotating the mandrel, a paste-applying device in the path thereof, a brush, also in said path, a label-holder, and means to feed labels therefrom, substantially as and for the purpose specified. 14th. In a machine for making box parts, the combination of the travelling mandrel, means for forming a box part on the mandrel, a pinion and rack mechanism for rotating the mandrel, a paste-applying device in the path thereof, a label-holder means for feeding labels therefrom, and a device for pressing a label to the box part upon the mandrel, substantially as and for the purpose specified. 15th. In a machine for making box parts, the combination of the travelling mandrel, means for forming a box part thereon, a pinion and rack mechanism for rotating the mandrel, a movable paste-receptacle having its paste-delivering part normally in the path of the mandrel and adapted to be moved by the latter to one side of such path, substantially as and for the purpose shown. 16th. In a machine for making box parts, the combination of the travelling mandrel, means for forming a box part thereon, a pinion and rack mechanism for rotating the mandrel, and a movable paste receptacle having a roller at its bottom normally in the path of such mandrel, and adapted to be moved by the latter to one side of such path, substantially as and for the purpose specified. 17th. In a machine for making box parts, the combination of the revolving mandrel carrier, a label-holder, a pivoted bar upon which said holder is slidingly mounted, a follower to feed labels from the holder, having a rod or stem, a reciprocating plate, a pawl or grip to connect the latter and the rod or stem, an arm for raising said plate and the label holder, means for causing the lowering thereof, means for releasing the pawl or grip from the rod or stem, and means for swinging the pivoted label-holder bar, substantially as and for the purpose specified.

No. 52,467. Box Filling Machine.

(*Machine à emplir les boîtes.*)

The Diamond Match Company, Chicago, Illinois, U.S.A., assignee of Charles Henry Palmer, John William Denmead and Joseph Alvirtus Baughman, all of Akron, Ohio, U.S.A., 1st June, 1896; 18 years. (Filed 8th April, 1896.)

Claim.—1st. In a machine for boxing matches, in combination with a source of supply of the matches to be boxed, a support to hold the box in position to receive the matches from the source of supply, and means for giving the box a to and fro jarring motion, in a direction out of a vertical line, and substantially at right angles to the matches as they are to lie in the box, substantially as and for the purpose specified. 2nd. In a machine for boxing matches, in combination with a source of supply of the matches to be boxed, means for passing a box across the path of the matches from such source of supply and a jarring device to give the box a to and fro longitudinal jarring in a direction substantially at right angles to the matches as they are to lie in the box, substantially as and for the purposes shown. 3rd. In a machine for boxing matches, in combination with a source of supply of the matches to be boxed, means for passing the boxes across the stream of matches from such source, so that they will be gradually filled, as they pass along, and means for jarring the boxes, while being filled, in a direction out of vertical line and substantially at right angles to the matches as they are to lie in the filled boxes, substantially as and for the purpose set forth. 4th. In a machine for boxing matches, in combination with a source of supply of the matches to be boxed, means for passing a series of boxes placed close together, across the stream of matches from the source of supply, so that several of the boxes will be receiv .



ing matches at a time, and means for giving the boxes, as taey pass along, a series of jars in a direction out of a vertical line and at right angles to the matches, as they are to lie in the filled boxes, substantially as and for the purpose described. 5th. In a machine for boxing matches, in combination with a source of supply of the matches to be boxed, a support for the boxes over which the latter are moved in a direction across the stream of matches from the source of supply, means for moving the boxes over such support, and means for giving such support a to and fro jarring motion in a direction substantially at right angles to the matches as the are to lie in the filled boxes, substantially as and for the purpose specified. 6th. In a machine for boxing matches, in combination with a support for the box and means for moving the box over the same, means for jarring the support longitudinally with reference to the travel of the box over the support, substantially as and for the purpose described. 7th. In a machine for boxing matches, in combination with a support over which the box is moved, means for filling the box, and means for jarring the support longitudinally with reference to the travel of the box over it, and in a direction substantially at right angles to the position which it is desired that the matches shall assume in the filled box, substantially as and for the purpose specified. 8th. In a box filling machine, in combination with a trough to hold the boxes to be filled, means for reciprocating such trough longitudinally substantially as and for the purpose described. 9th. In a box filling machine, in combination with a trough to hold the boxes to be filled, means for moving the boxes through such trough, and means for giving the latter a series of longitudinal reciprocations, substantially as and for the purpose specified. 10th. In combination with a source of supply of matches, a trough extending across the path of the matches from such source, in a direction substantially at right angles to the matches, means for moving the boxes along in the trough, and means for giving the latter a series of longitudinal reciprocations, substantially as and for the purpose shown. 11th. In a box-filling machine, in combination with a source of supply of the material to be boxed, the trough through which the boxes to be filled are moved, divided transversely into separate parts, and separate jarring devices for such part, adapted to give the part of the trough through which the boxes first pass a greater jarring motion than the other, substantially as and for the purpose set forth. 12th. In a box-filling machine, in combination with a source of supply of the material to be boxed, the trough extending across the path of the material from such source of supply, and divided transversely into separate parts, means for moving the boxes through the trough, and jarring devices for the respective parts of the trough, whereby that part through which the boxes first pass is given greater jarring motion than the other part, substantially as and for the purpose described. 13th. In a box-filling machine, in combination with a trough through which the boxes are passed, means for holding the boxes from rising, as they pass through the trough, an adjustable friction device to engage the bottoms of the boxes, and means for jarring the trough longitudinally, substantially as and for the purpose specified. 14th. In a box-filling machine, in combination with a trough through which the boxes are passed, means for holding the boxes down in the trough as they pass through the same, a plate to engage the bottoms of the boxes, means for adjusting such plate to regulate the amount of friction on the boxes and means for jarring the trough longitudinally, substantially as and for the purpose shown. 15th. In a box-filling machine, in combination with a trough through which the boxes are passed, a spring plate engaging the under sides of the boxes, and means for jarring the trough longitudinally, substantially as and for the purpose specified. 16th. In a box-filling machine, in combination with a trough section through which the boxes are passed, two pins or lugs connected with the trough, a swinging arm, an inclined bar carried by the latter, engaging the pins, and means for swinging such arm, substantially as and for the purpose shown. 17th. In a box-filling machine, in combination