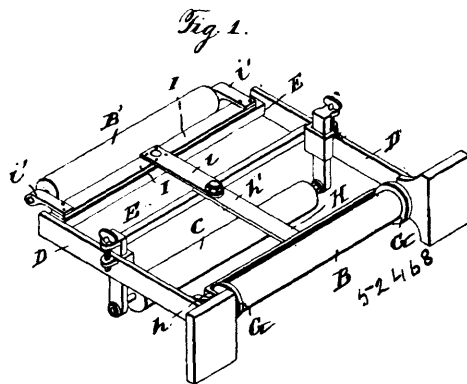


with a trough section through which the boxes are passed, two pins or lugs connected with such trough, a swinging arm, means for swinging the same transversely with reference to the trough, and the inclined bar adjustably attached to the swinging arm so that its angle, with reference to the swing of the arm, may be varied, substantially as and for the purpose set forth. 18th. In a box-filling machine, in combination with a trough section through which the boxes are passed, pins or lugs connected with the trough, the arm swinging transversely with reference to the trough, the inclined bar carried by such arm and engaging the pins or lugs on the trough, the rock-shaft to which such arm is attached, the cam-wheel, a second arm on the rock-shaft, having a bearing engaging the cam-wheel, and a spring forcing such arm towards the wheel, substantially as and for the purpose described. 19th. In a box-filling machine, in combination with a trough section through which the boxes are passed, a transverse rock-shaft having two arms swinging in a plane longitudinal with reference to the trough section, of which one has its free end connected with the latter, a cam-wheel, means carried by the second arm on the rock-shaft, to engage the cam-surfaces on the wheel, and a spring tending to swing the first arm in a direction opposite to that in which the cam moves it, substantially as and for the purpose specified. 20th. In a box-filling machine, in combination with the chute down which the boxes are fed, the rotating feed-wheel having fingers to engage the inner side of the forward ends of the boxes, substantially as and for the purpose shown. 21st. In a box-filling machine, in combination with a chute through which the boxes are fed, and a support over which the boxes pass from the chute, the rotating feed-wheel having fingers to engage the inner sides of the forward ends of the successive boxes, so as to force the same along through the chute and over the support for the moving boxes, substantially as and for the purpose set forth. 22nd. In a box-filling machine, in combination with the chute for the boxes, and the trough through which they are to be moved, the means for feeding the boxes from the chute into and through the trough, which consists in a rotating wheel having fingers adapted to engage the inner sides of the forward ends of the successive boxes, and force them forward, substantially as and for the purpose described. 23rd. In a box-filling machine, in combination with a suitable support over which the boxes are moved, and means for so moving them, a series of removable transverse partitions for each box arranged to divide the space within a box up into several divisions, into which the matches can fall from above the box and a moving carrier carrying such partitions along with the boxes, substantially as and for the purposes specified. 24th. In a box-filling machine, in combination with a suitable support for the boxes, and means for moving the latter along, a series of transverse plates for each box projecting above the level of the box edges, and so situated as to divide the space just above each box into several divisions, and a moving carrier carrying such plates along with the boxes, substantially as and for the purpose shown. 25th. In a box-filling machine, in combination with a suitable support for the boxes to be filled, and means for moving them along, a moving carrier travelling with the boxes, having a series of plates for each box, with wedge-shaped upper portions situated above the tops of the boxes, so as to divide the space just above each box into several divisions, substantially as and for the purpose described. 26th. In a box-filling machine, in combination with a suitable support for the boxes to be filled, and means for moving them along, a moving carrier having a series of transverse plates for each box extending down into and above the box, and arranged relatively, so as to divide the space within and just above the box into several divisions, substantially as and for the purpose specified. 27th. In a box-filling machine, in combination with a support for the boxes to be filled, a moving chain of links, each having a plate to project into the box and engage the inner side of one of its ends, substantially as and for the purpose shown. 28th. In a box-filling machine, in combination with a support for the boxes to be filled, a moving chain of links, each having a plate to project into a box and engage the inner side of one of its ends, such plate having a portion extending up and above the box engaging part, substantially as and for the purpose set forth. 29th. In a box-filling machine, in combination with a support for the boxes to be filled, a moving chain of links each having a plate to project down into a box in contact with the inner side of an end of the box, and an upwardly-projecting part made wedge-shaped at its top, substantially as and for the purpose described. 30th. In a box-filling machine, in combination with a support for boxes to be filled, a moving chain of links each having one or more transverse plates adapted to project down into a box and divide the interior of the latter up into several divisions into which the matches can fall from a source of supply above the boxes, substantially as and for the purpose specified. 31st. In a box-filling machine, in combination with a source of supply of the matches to be boxed, and a suitable support for the boxes, a moving chain of links, one for each box to be filled, each having several transverse upwardly-projecting plates over the respective boxes, arranged so as to divide the space above the respective boxes into several divisions into which the matches can fall from a source of supply, and means for causing the chain of links to move with the boxes, substantially as and for the purpose specified. 32nd. In combination with a support for the boxes to be filled, a moving chain of links, each having a projecting part to engage the inner side of one end of a box, and one or more transverse partition-plates projecting down into the

box, situated so as to divide the box interior into separate divisions, and means for moving the boxes along, substantially as and for the purpose set forth. 33rd. In combination with a support for the boxes to be filled, a moving chain of links each having a projection to engage the inner side of an end of one of the boxes, and one or more transverse partition-plates to extend down into the interior of the box, having their upper portions extending above the box provided with an edge and oppositely-inclined faces on opposite sides of such edge, and means for moving the boxes along, substantially as and for the purpose described. 34th. In a box-filling machine, in combination with the box receiving-trough with overhanging longitudinal shoulders, means for moving the boxes through the trough, and the chain of links, each provided with a projection to engage the inner side of one end of a box, and one or more partitions to project down into a box and divide up its interior, substantially as and for the purpose specified. 35th. In a box-filling machine, in combination with the box receiving-trough with overhanging longitudinal shoulders, means for moving the boxes through the trough, the moving chain of links each carrying transverse partition-plates to project down into the interior of a box arranged so as to divide up the same into small divisions adapted to receive matches falling from a source of supply above the box, and guiding and supporting devices for such chain to guide it into the trough with the boxes, and raise it from the latter beyond the end of the trough, substantially as and for the purpose shown. 36th. In a box-filling machine, in combination with the trough with overhanging longitudinal shoulders, means for moving the boxes through the trough, a moving chain of links, each having a projection to engage the inner face of the rear end of a box, and transverse plates with wedge-shaped tops projecting above the top of the box, and suitable supports and guides for the chain to guide it into the trough with the boxes so that it will come between the upper edges of the latter, and the longitudinal shoulders on the trough, and then cause it to rise away from the boxes at a point beyond the rear end of the trough, substantially as and for the purpose set forth. 37th. In combination with the trough and means for feeding the boxes to be filled to and through such trough, a moving chain of links each having the transverse division-plates for the respective box, a spring-plate to hold the boxes down in place, as they pass to the point where the chain of links enters the trough, longitudinal shoulders on the trough, to hold the chain down in place on the boxes, as it moves along, a guide to guide the chain to the trough, supporting and actuating wheels to guide the chain upward from the boxes beyond the trough end, and return it to the entrance of the trough again, and means for rotating one or more of these wheels, substantially as and for the purpose described.

No. 52,468. Belt Adjuster. (*Ajusteur de courroie.*)



The Diamond Match Company Chicago, Illinois, assignee of Ebenezer Beecher, Westville, and Jacob Pulver Wright, New Haven, both in Connecticut, all in the U.S.A., 1st June, 1896; 18 years.
(Filed 8th April, 1896.)

Claim.—1st. In combination with the belt and a roller over which the belt passes, a second roller around which the belt travels so that the tension of the belt at or near opposite ends of the roller will be changed as the roller is moved to change the angle of its axis with relation to the axis of the other roller, a swinging frame having bearings in which this second roller is journaled, and means engaged and actuated by the edge of the belt as the latter moves to the side of its proper position, to swing the frame to change the position of the axis of the roller carried thereby, substantially as and for the purpose specified. 2nd. In combination with the belt and a roller over which the belt passes, a second roller around which the belt travels, bearings for such roller mounted on a swinging frame, a lever connected with such frame, and means connected with the lever, and engaged and actuated by the belt, as it moves to one side or the other of its proper position, so as to move the lever and swing the frame so as to carry the end of the movable roller toward which the belt has moved farther from the other roller, substantially as and for the purpose shown. 3rd. In combination with the belt, a roller over which the belt passes, the second roller around which the belt travels, bearings for such roller mounted on a swinging frame, a