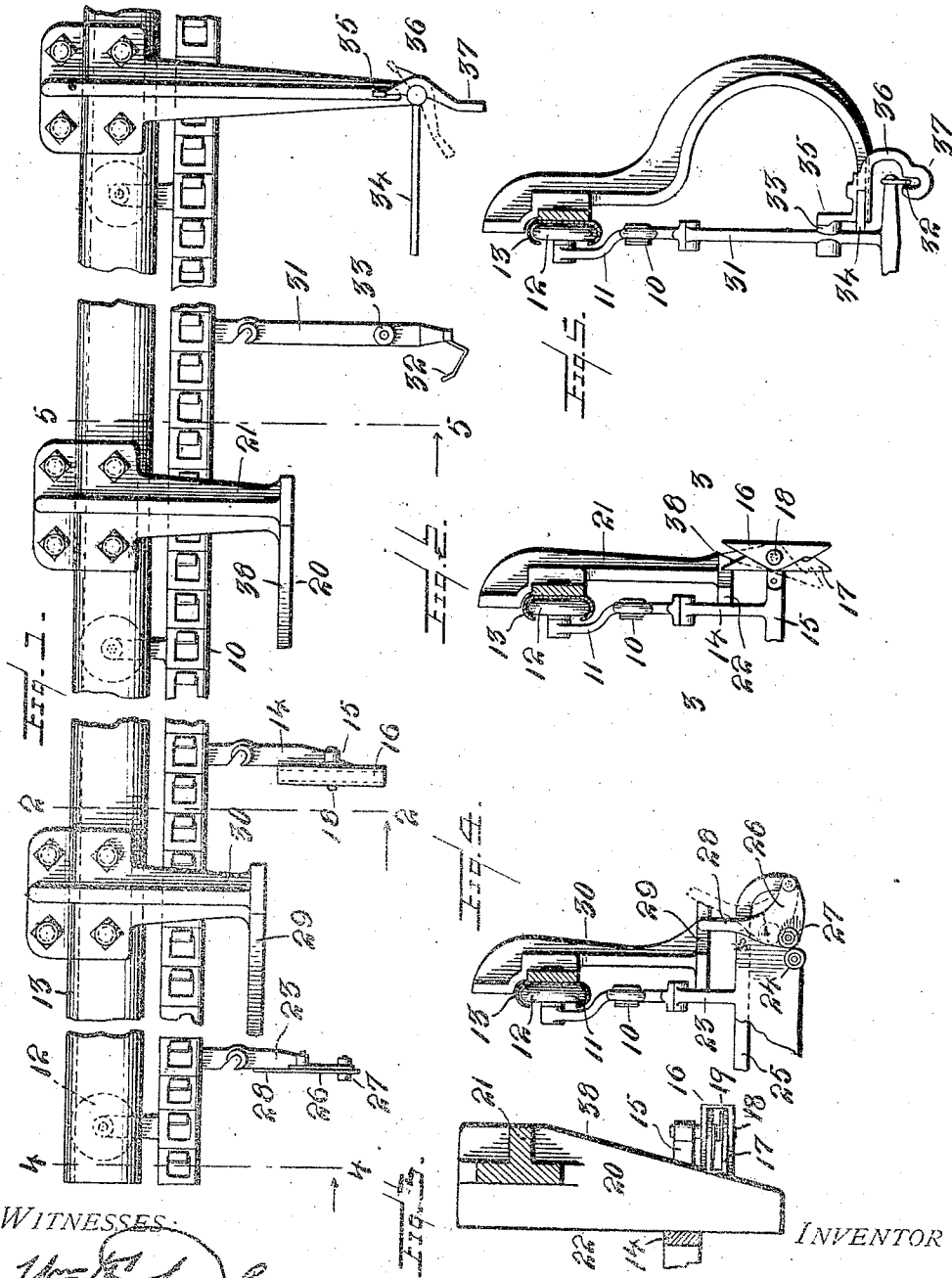


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 COMBINED DRY ROOM CONVEYER.
 APPLICATION FILED MAR. 8, 1909.

940,661.

Patented Nov. 23, 1909.



WITNESSES:

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COMBINED DRY-ROOM CONVEYER.

940,661.

Specification of Letters Patent.

Patented Nov. 23, 1909.

Application filed March 8, 1909. Serial No. 482,131.

To all whom it may concern:

Be it known that I, WILLIAM BARTHOLOMEW, citizen of the United States, residing at Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Combined Dry-Room Conveyers, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to a combined dry room conveyer, and particularly to a device having carriers adapted to discharge different classes of goods at different points.

The invention has for an object to provide a conveyer with a plurality of carriers having releasing members disposed for operation independently of associated carriers and a plurality of relatively fixed releasing devices arranged to selectively cooperate with said members upon some of the carriers and to be inoperative relative to the members of the other carriers so that all goods carried by any particular set of carriers may be deposited at the same point, thus avoiding the necessity of assorting the goods upon their delivery from the dry room.

A further object of the invention is to provide an improved construction of goods retaining jaws comprising a fixed jaw and a cooperating spring held jaw adapted to be engaged with the surface of an inclined releasing device for the purpose of delivering the goods held by the jaws, said releasing device also being arranged to prevent lateral movement of the carrier during its action upon the jaw.

Other and further objects and advantages of the invention will be hereinafter fully set forth and the novel features thereof defined by the appended claims.

In the drawing:—Figure 1 is a side elevation showing the conveyer provided with a plurality of goods carriers; Fig. 2 is a vertical section on line 2—2, Fig. 1; Fig. 3 is an enlarged section on line 3—3, Fig. 2; Fig. 4 is a section on line 4—4, Fig. 1; Fig. 5 is a similar view on line 5—5, Fig. 1.

The numeral 10 designates the conveyer which may be of any desired construction or configuration, and is shown as comprising a chain suspended by hangers 11 from wheels 12 traveling upon the track or way 13 supported in any desired manner. Depending from this conveyer is a series of

goods carriers which also may be of any preferred construction, but each arranged with its releasing member disposed for operation at a point different from that of another carrier upon the same conveyer. For the purpose of illustration, the conveyer is shown provided with a carrier 14 of desirable construction. The carrier is formed at its lower portion with the cross bar 15 having at its outer end a fixed jaw 16. Cooperating with the jaw 16 is the movable jaw 17 pivotally mounted at 18 and normally held in contact with the jaw by a tension spring, for instance, as shown at 19 in order to grip and retain the goods between the jaws. By a pressure applied to the upper portion of these jaws by hand or otherwise the goods may be introduced or released, and the tension of the jaws is such that the goods may also be placed therein by simply pushing the same between the jaws which yield to receive the goods. For the purpose of automatically moving the spring held jaw 17, a releasing device 20 is provided and held in fixed position by the hanger 21 from the track or way. This device has an inclined face 22 adapted to cooperate with the inner face of the spring held jaw at its upper end and force it toward the fixed jaw, as shown by dotted lines in Fig. 2, thus releasing the goods held by the jaws. The opposite face 23 of this device is preferably straight and contacts with the body of the carrier 14 in order to prevent lateral displacement thereof when pressure is applied to the spring held jaw.

Associated with the carrier 14 is a carrier 23 of substantially the construction disclosed in my application for patent Serial No. 471,670. This form of carrier is shown in Fig. 4 and comprises generally a fixed gripping face 24 mounted upon the cross bar 25 thereof and a pivoted lever 26 carried by said bar and having a cooperating gripping face 27. The upper end 28 of this lever is adapted to cooperate with the inclined face of the releasing device 29 carried by the hanger 30. This releasing device is disposed in a different plane from the releasing device 20 to operate only upon the lever 26 which lever will not be operated by the releasing device 20.

Another form of associated carrier 31 is shown in Fig. 5 and comprises holding pins adapted to cooperate with the stripper sub-

stantially as shown in Patent # 862,263. The pins 32 upon the carrier have the goods hooked thereto and the carrier is provided with an operating projection 33. The carrier in its movement passes into contact with a guide plate 34, while its projection strikes the upper end 35 of the pivotally mounted stripper 36 so that its lower end 37 swings upward, as shown by dotted lines, lifting the goods from the pins of the carrier. This releasing device is disposed in a different plane relative to the conveyer from those heretofore described and operates only upon the carrier having its goods arranged to co-

operate therewith. It will be seen that in the operation of the invention different classes or characters of goods to be dried are supported by the different hangers each of which effects its delivery only in coöperation with the releasing device mounted for that purpose, thus permitting the use of a conveyer for retaining various kinds of goods and insuring their automatic delivery at different points thus avoiding the necessity of sorting or rearranging the goods as is necessary where all classes of goods are delivered at a single point from the dry room conveyer.

While three different types of carriers are here shown it will be obvious that a greater number may be used if desirable, and also that different characters of carriers from those disclosed may be used, it only being essential that the releasing or delivering devices shall be so disposed as to operate upon one set of carriers without affecting any of the remaining carriers upon the conveyer. The carriers are here shown disposed to coöperate with releasing devices mounted at different distances from the conveyer and the length of the carriers is therefore different to effect coöperation with the releasing device. The form of goods retaining jaws provides a very simple and economical construction into which the goods may be readily introduced and from which they are automatically discharged by the inclined face of the releasing device, which device also by its engagement with the carrier prevents lateral displacement thereof due to pressure applied to the jaw.

Having described my invention and set forth its merits, what I claim and desire to secure by Letters Patent is:—

1. A dry room conveyer arranged to travel in the same horizontal plane throughout its path and provided with a series of downwardly disposed goods supporting devices arranged in a common operative vertical plane and in relatively different horizontal planes from that of the path of the conveyer, and a series of goods releasing devices arranged in different horizontal planes and coöperating only with the supporting device

in the same horizontal plane with said releasing device to automatically cause the delivery of goods therefrom.

2. A dry room conveyer arranged to travel in the same horizontal plane throughout its path and provided with a series of downwardly disposed goods supporting devices having movable releasing members disposed in the same operative vertical plane and in relatively different horizontal planes from that of the path of the conveyer, and a series of goods releasing devices arranged in different horizontal planes to engage said member of the supporting devices which is disposed in the same horizontal plane with the releasing device.

3. The combination with a traveling conveyer disposed in the same horizontal plane throughout its path, of a plurality of downwardly discharging goods support disposed in a common vertical plane and in different horizontal planes relative to the path of the conveyer and a plurality of fixed releasing devices disposed in a vertical plane to engage a member of the goods support and in different horizontal planes relative to the goods support adapted to coöperate therewith.

4. The combination with a conveyer, of a carrier thereon having a hanger provided with a fixed and movable retaining jaw, and a releasing device adapted to be interposed between the hanger and movable jaw and having a face to contact with said hanger and an inclined face to move said jaw.

5. In a conveyer, a carrier provided with a hanger having a fixed jaw and a coöperating spring held jaw, and relatively fixed means adapted to enter between said hanger and spring jaw and having an inclined surface to engage and move said spring jaw and an opposite straight face to contact with the hanger of said carrier.

6. In a conveyer, a carrier provided with a hanger having at its lower portion a cross bar, a fixed jaw mounted upon the outer end of said bar, a pivoted jaw mounted to coöperate with said fixed jaw, and a spring for retaining said jaws in contact.

7. In a conveyer, a carrier provided with a hanger having at its lower portion a cross bar, a fixed jaw mounted upon the outer end of said bar, a pivoted jaw mounted to coöperate with said fixed jaw, a spring for retaining said jaws in contact, and a releasing plate disposed to engage said hanger and having an inclined outer face to contact with said pivoted jaw.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM BARTHOLOMEW.

Witnesses:

WM. KROGMAN,
JNO. HOERMANN.