No. 684,737. Patented Oct. 15, 1901.

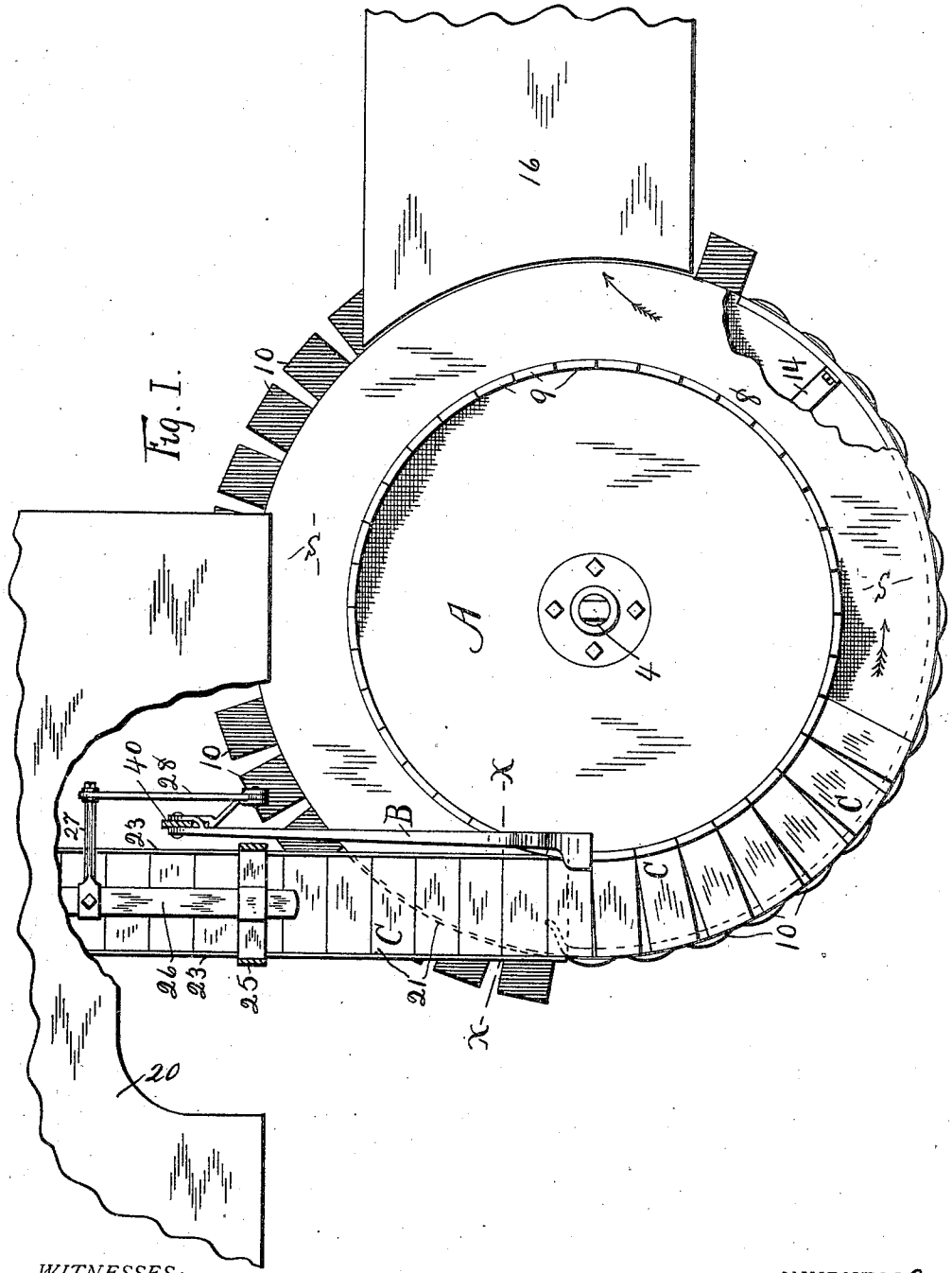
J. H. WYCKOFF & A. STEARNS.

ROTARY RECEIVING TABLE.

(Application filed Apr. 2, 1900.)

(No Model.) 4 Sheets—Sheet 1.

Fig. 1.



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Fig. II.

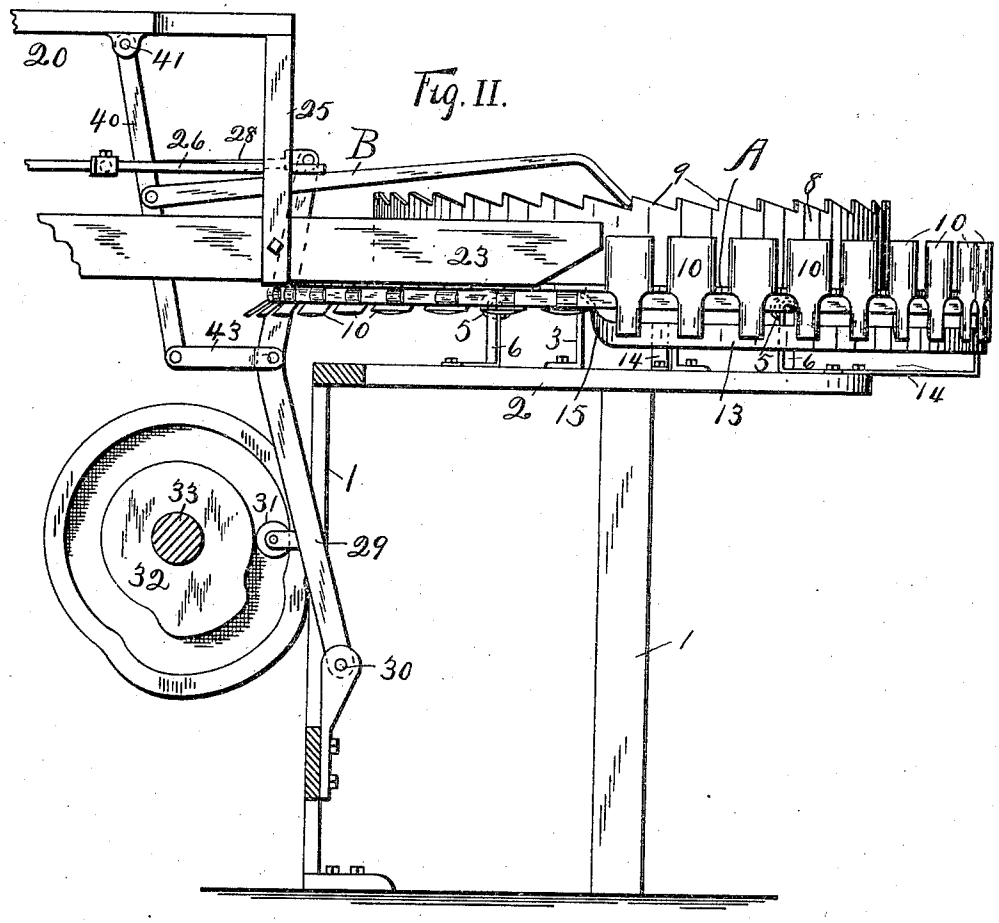
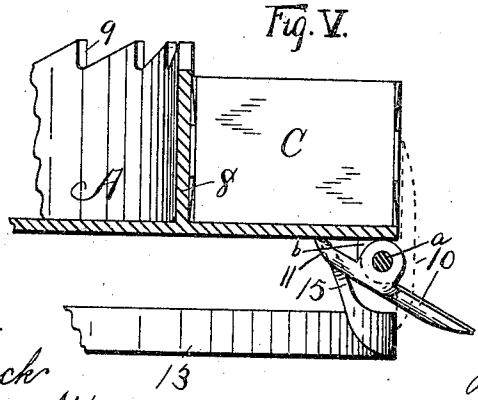


Fig. V.



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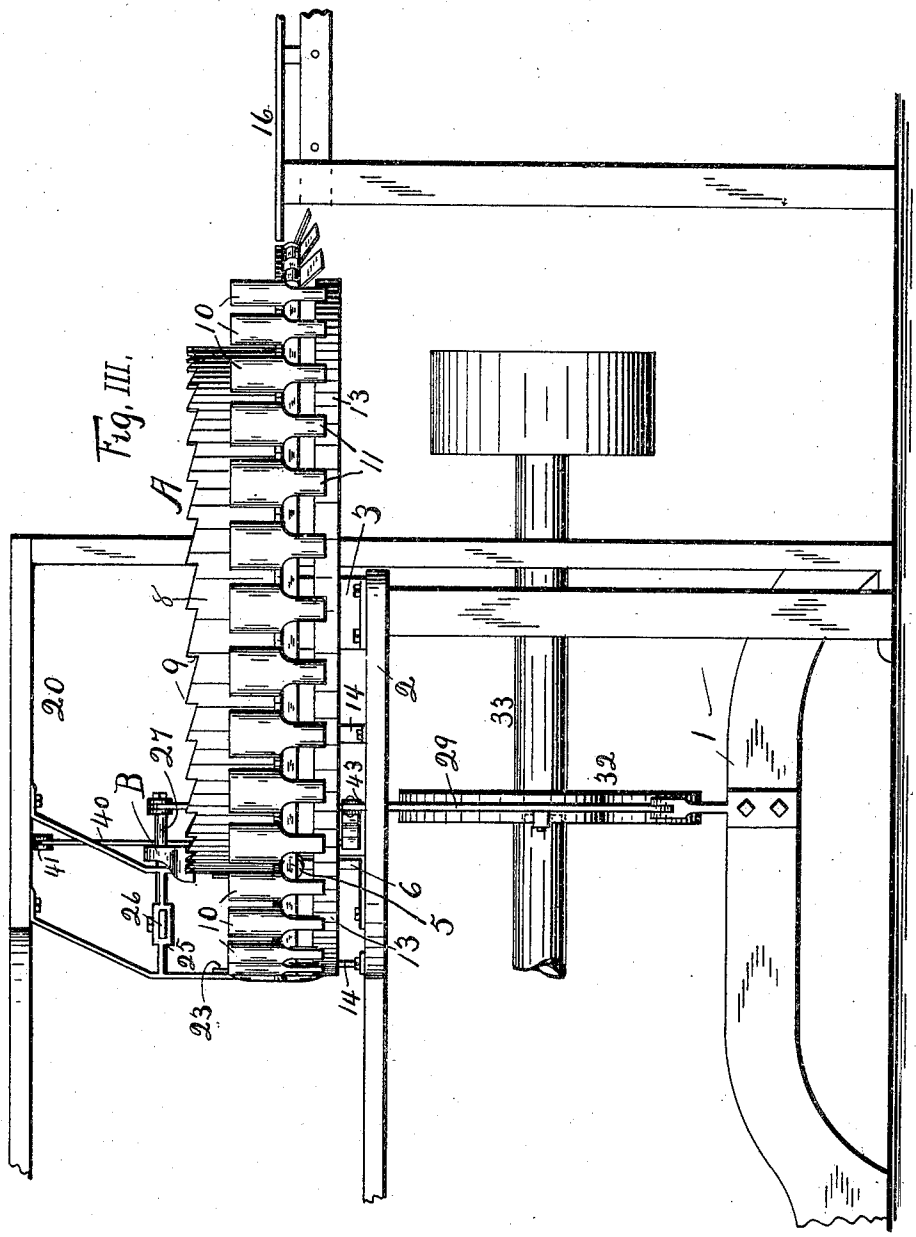
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(Application filed Apr. 2, 1900.)

(No Model.) 4 Sheets—Sheet 3.

Fig. III.



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(Application filed Apr. 2, 1900.)

(No Model.) 4 Sheets—Sheet 4.

Fig. IV.

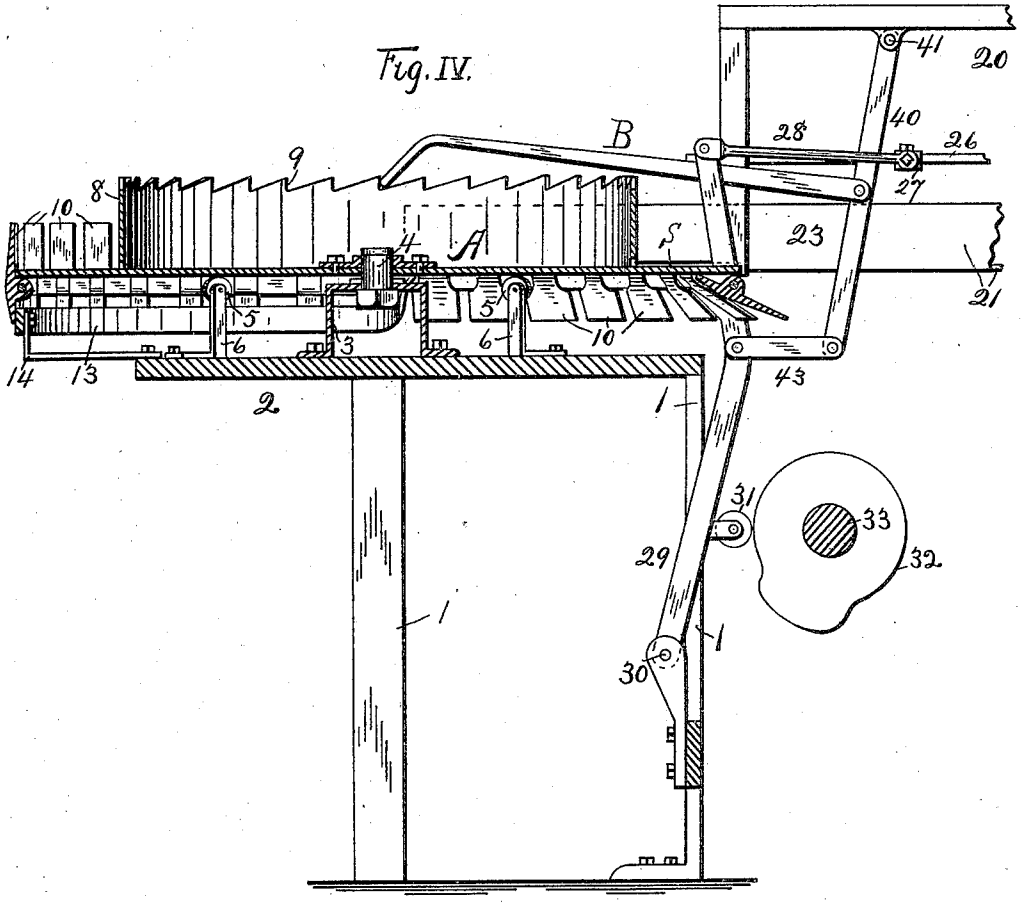
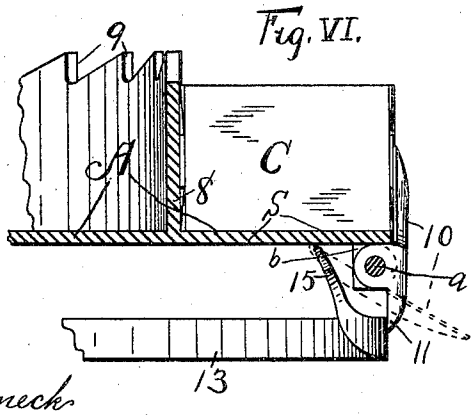


Fig. VI.



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UNITED STATES PATENT OFFICE.

JAMES H. WYCKOFF AND ALBERT STEARNS, OF SYRACUSE, NEW YORK; SAID WYCKOFF ASSIGNOR TO SAID STEARNS.

ROTARY RECEIVING-TABLE.

SPECIFICATION forming part of Letters Patent No. 684,737, dated October 15, 1901.

Application filed April 2, 1900. Serial No. 11,107. (No model.)

To all whom it may concern:

Be it known that we, JAMES H. WYCKOFF and ALBERT STEARNS, of Syracuse, in the county of Onondaga, in the State of New York, have invented new and useful Improvements in Rotary Receiving-Tables, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

Our invention relates to a rotating table for transferring boxes from the machine in which they are filled or wrapped to a point at which they are conveniently received to be packed in wooden crates for shipping.

Our invention will be understood by reference to the accompanying drawings, in which the same numerals and letters of reference indicate the same parts in all the different views.

Figure I is a top plan view of our invention, portions being broken away. Figs. II and III are respectively side and front elevations thereof. Fig. IV is a vertical section in position reversed from Fig. II. Figs. V and VI are enlarged sections of a portion of the table, taken on line X X of Fig. I, illustrating the operation of the holders as the table rotates.

In the figures, 1 indicates a frame or base of suitable construction for supporting the various parts, 2 the flat top thereof, and 3 an angle-iron on which is axially journaled by bolt 4 the circular rotating table or table-bed A, riding on rollers 5, journaled on the ends of angle-irons 6. The table-bed is provided with a circular wall 8, concentric with the margin of the bed and having a notched upper edge 9, forming a ratchet with which engages pawl B, effecting the rotation. Between this wall and table-margin is the annular space S, on which the boxes rest. To the outer margin of the table are journaled holders 10 10, which normally tend to drop into substantially a horizontal position and which are turned into substantially a vertical position by the engagement of their fingers 11 11 with the fixed guide 13, supported by arms 14 and formed with an end 15, inwardly and upwardly curving adjacent to the lower surface of the table. As the table rotates in the direction indicated by the arrow these fingers successively engage with said end 13 and ride along the fixed guide, by which the holders are turned and maintained in their vertical operative position until the opposite end 12 of the guide is reached, where the holders drop by their own weight into their idle position and pass under the fixed table 16 for receiving the boxes. When in their operative position, these holders grip and hold between themselves and the wall the boxes with a sufficient degree of firmness to prevent the lately-gummed wrappers or covers from springing open, and so giving the gum time to set.

The engagement of the fingers with the curved end of the fixed guide as the table is rotated is best shown in Figs. V and VI, which illustrate successive positions. In Fig. V a holder in idle position is shown with its finger about to engage with the curved end of the guide, its next (operative) position being indicated in dotted lines. In Fig. VI the next position is shown with the holder turned into its vertical or operative position, the preceding idle position being indicated by dotted lines. The holders are journaled by studs *a*, fitted to blocks *b*.

The table is rotated step by step by the engagement of pawl B with the notched edge 9, the length of each notch and each step in movement being preferably equal to the width of a box. This movement is effected by the following mechanism: 20 indicates the main machine for wrapping or filling the boxes, from which a chute 21, having sides 23 of width sufficient to receive the boxes, is arranged to deliver the boxes to the rotating table. 25 is a guide, and 26 an expeller provided with fingers (not shown) on its opposite end for engaging with the boxes operated by the adjustable arm 27, connected by link 28 to main lever 29, journaled at 30 and provided with roller 31, with which cam 32 on shaft 33 engages, moving the feed-bar intermittingly to feed or draw forward the boxes one by one. This chute and feed mechanism are old.

We have added the following parts for operating the pawl to rotate the table step by step: The pawl at the opposite end from which it engages with the ratchet is pivotally attached

to pawl-lever 40, journaled to the frame at 41 and connected at its lower end by link 43 to main lever 29.

From this description the operation of our table will be clear. At each rotation of cam 32 the pawl engaging with the ratchet rotates the table one step, and simultaneously the boxes are drawn forward in the chute and the holders moved successively into their vertical position at the point of delivery of the boxes onto the table to grip and hold them with sufficient firmness during the rotation of the table until the boxes are brought to the fixed table 16. The pawl is drawn back to engage with the successive notches by any suitable means, as spring, weight, or a cam-groove. (Shown in Fig. II.)

Having thus fully described our invention, what we claim, and desire to protect by Letters Patent, is—

1. In combination in a rotary receiving-table, a supporting-base, a circular table-bed rotatably supported thereon, a circular vertical wall on the upper surface of the bed concentrically arranged within its outer margin and at a suitable distance therefrom, holders journaled around said margin normally dropping by their weight away from said bed and circular wall, means for turning the holders into a vertical position to retain the boxes between them and the circular wall, and means for rotating the table.

2. In combination in a rotary receiving-table, a supporting-base, a circular table-bed rotatably supported thereon, a circular wall on the upper surface of said bed arranged concentrically at a suitable distance within its outer margin to leave a box-supporting space between it and said margin, holders journaled around said margin normally dropping away therefrom, means for temporarily turning said holders into a vertical position to retain the boxes between them and the central wall and means for rotating said table.

3. In combination in a rotary receiving-table, a supporting-base, a circular table-bed rotatably supported thereon, a circular wall on the upper surface of said bed arranged concentrically at a suitable distance within its outer margin to leave an annular, box-receiving space between it and said margin, holders journaled around said margin normally dropping away therefrom, a fixed guide engaging with said holders for temporarily turning them into a vertical, operative position and means for rotating the table step by step.

4. In combination in a rotary receiving-table, a supporting-base, a circular table-bed rotatably supported thereon, a circular wall on the upper surface of said bed arranged concentrically at a suitable distance within its outer margin to leave an annular box-receiving space between it and said margin, holders journaled around said margin normally dropping away therefrom, a chute delivering the boxes onto the bed and a receiving-table for receiving the boxes after they have been carried around a portion of the circle.

5. In combination in a rotary receiving-table, a suitable supporting-base, a circular table-bed rotatably supported thereon, a circular vertical wall on the upper surface of said bed concentric with its outer margin, holders journaled around said margin normally dropping by their weight away from said circular wall, a chute delivering the boxes to the table-bed, a fixed receiving-table to receive the boxes from the rotating table, means for rotating the table to carry the boxes from the chute to the receiving-table and a fixed guide arranged to elevate the holders temporarily to grip the boxes while they are being so carried.

6. In combination in a rotary receiving-table, a supporting-base, a circular bed rotatably supported thereon, a circular vertical wall concentrically arranged on the upper surface of said bed, leaving an annular space of sufficient width between it and the margin of the bed, holders journaled around said margin tending to fall away therefrom into an idle position, means for rotating said bed, and a fixed guide arranged beneath said bed and adjacent thereto having an inwardly and upwardly curved end to engage with the lower ends of said holders as they approach said guide to elevate them into a vertical and operative position, and having a curved body to retain them in said position temporarily during the rotation of the bed.

7. In combination in a rotary receiving-table, a supporting base or standard, a circular table-bed rotatably supported thereon, a circular wall, having a notched upper edge arranged on the upper surface of said bed concentrically within its outer margin, leaving an annular box-receiving space between it and the margin, holders journaled around said bed-margin normally dropping away therefrom into an idle position, a guide for turning said holders into a vertical, operative position temporarily during the rotation of the bed, a pawl engaging with said notched edge and a lever and cam for operating said pawl to move the table-bed step by step.

8. In combination in a rotary receiving-table, a suitable supporting-base, a circular table-bed rotatably supported thereon, a circular vertical wall arranged on the upper surface of said bed concentrically with its outer margin and leaving a sufficient box-receiving, annular space between it and said margin, said circular wall having a notched upper edge forming a ratchet, a chute delivering the boxes to said annular space, a fixed table for receiving said boxes after they have been carried around a portion of the circle on the rotating bed, holders having depending fingers journaled around the margin of the bed normally dropping away therefrom by their own weight into idle position, a fixed guide ar-

ranged beneath said table-bed and adjacent thereto having an inwardly and upwardly curved end to engage with said fingers to turn said holders into a vertical, operative position to retain the boxes between themselves and the circular wall, said guide having a uniformly-curved portion to retain the holders in said operative position while rotating from the chute to the receiving-table, a pawl attached to a lever and engaging with the ratchet to feed said table-bed step by step, a roller connected to said lever and a cam bearing against said roller to operate the pawl and rotating table.

In testimony whereof we have hereunto signed our names.

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ALBERT STEARNS. [L. S.]

Witnesses:
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JAS. PLANT.