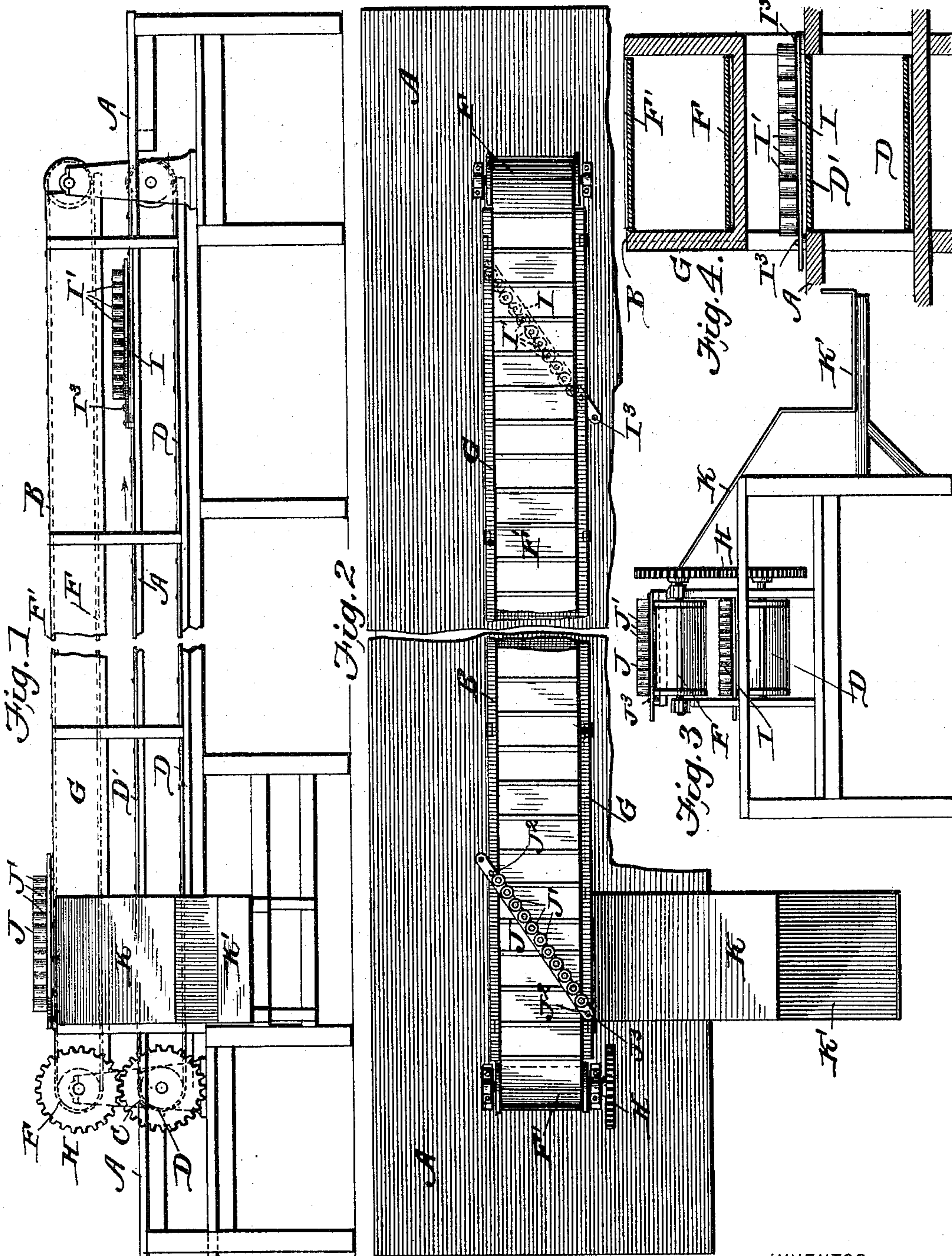


(No Model.)

G. F. NEWELL.
CONVEYING APPARATUS.

No. 600,373.

Patented Mar. 8, 1898.



WITNESSES:

M. S. Bloudek.
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INVENTOR

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UNITED STATES PATENT OFFICE.

GEORGE F. NEWELL, OF RICHMOND, VIRGINIA, ASSIGNOR OF ONE-HALF TO
ADOLPH DILL, OF SAME PLACE.

CONVEYING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 600,373, dated March 8, 1898.

Application filed November 3, 1897. Serial No. 657,254. (No model.)

To all whom it may concern:

Be it known that I, GEORGE F. NEWELL, of Richmond, in the county of Henrico and State of Virginia, have invented a new and useful
5 Improvement in Conveying Apparatus, of which the following is a specification.

My invention is an improvement in conveying apparatus for use in handling material, especially that which it is desired to weigh at
10 one point and pack at another, and has for an object, among others, to provide a simple construction by which the weighed, proportioned, inspected, or other material may be conveyed to the packing-point, deposited
15 there, and the emptied vessels returned to the starting-point; and the invention consists in certain novel constructions, combinations, and arrangements of parts, as will be hereinafter described, and pointed out in the claims.
20 In the drawings, Figure 1 is a side view, and Fig. 2 a top plan view, partly broken away, of the improved apparatus. Fig. 3 is an end view, and Fig. 4 a cross-sectional view, of same.

25 My apparatus is especially designed for handling manufactured tobacco, such as granulated tobacco and cut-plug, which is weighed or measured at one point and then packed at another point or points. In the
30 construction shown I employ a main table A and a return table or carrier B, arranged above and supported from the main table. These tables may be of any suitable size and length, the main table having suitable legs
35 and the upper or return carrier being supported by standards from said main table.

The main table A is provided with slots or openings C, through which passes the upper
40 run D' of the carrier-belt or apron D, such run D' of the belt lying in the plane of the table A, or approximately so, as shown.

The upper or return carrier F is shown as narrower than the table A and is closed in at its sides and bottom by a casing G, which
45 prevents any sagging of the lower run of the belt or apron and also protects the operatives from injury by said belt. The main and return belts are geared together at H and may be driven by any suitable power in any de-
50 sired manner, the upper run of the main belt moving in a reverse direction to the upper

run of the return-belt, so the material may be carried by the main belt in one direction and the emptied vessels returned by the upper belt moving in the reverse direction. 55

The main table and belt are provided with one or more switches I, and the return table and belt has a switch J, such switches I and J being alike and provided with series of rollers I' and J', which reduce the friction in
60 deflecting the material.

In securing the switches I provide the table A and carrier B with pin or bolt holes J², properly arranged, as shown, and secure the switches by bolts or pins I³ J³, passing from
65 the switches through or into the openings, the arrangement being such that the switches are pivotally and detachably secured at both ends, and may consequently be adjusted across their respective belts in such manner
70 as to discharge the material on the belt to one or the other side thereof.

Near the discharge end of the return-belt I provide an inclined chute K, leading down from the upper run F' of such belt just in
75 advance of the switch J and discharging into a box or trough K'.

In use an operative at one end of the main table can weigh or otherwise deal out the tobacco or other material and place the same in
80 suitable boxes or vessels and put the latter on the carrier-belt, by which it may be conveyed to the filling or packing operative, the switch being properly adjusted to discharge the material to such operative, who can place the
85 emptied vessel on the upper or return belt, by which it will be conveyed to and switched into the chute K and trough K' in convenient reach of the operator, resulting in a great saving of time and labor. 90

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

1. An apparatus comprising the main table, the main carrier having its upper run approxi-
95 mately in the plane of the table, and the return-carrier substantially as described.

2. In an apparatus, the combination of the main table, the main carrier having its upper run approximately in the plane of the table, 100 the latter extending laterally beyond the carrier whereby to receive material therefrom,

the switch extending across the carrier, and devices whereby the opposite ends of said switch are pivotally and detachably secured whereby the switch may be adjusted to discharge to either side of the carrier substantially as described.

3. An apparatus comprising the main carrier and the switch extending diagonally across the same and provided with a series of rollers turning on vertical axes and arranged in close relation forming the switching-surface substantially as described.

4. An apparatus comprising the main table having slots or openings, the carrier-belt operating in said slots or openings and having its upper run approximately in the plane of said table, the return-carrier located above the said carrier-belt and having its belt geared therewith and the switches substantially as described.

5. The herein-described apparatus for conveying tobacco and the like consisting of the

main table, the main carrier having its upper run approximately in the plane of the said table, the table extending laterally beyond the carrier in position to receive material discharged from said run of the main carrier, the return-carrier operating above the main carrier and geared therewith and the switches operating above said carriers substantially as set forth.

6. In a conveyer the combination with the belt and the table or frame having holes on opposite sides of said belt, of the switch arranged to extend across the said belt and pins or bolts projecting from said switch into or through the holes in the table or frame whereby the switch is pivotally and detachably secured at its ends substantially as described.

GEORGE F. NEWELL.

Witnesses:

T. D. NEWELL,
R. B. BOWE.