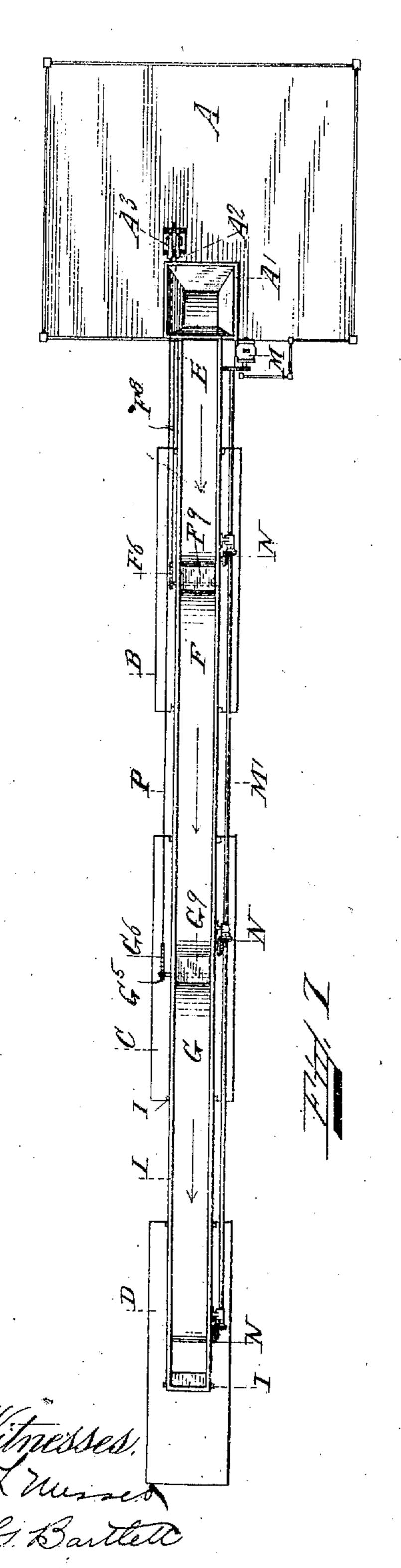
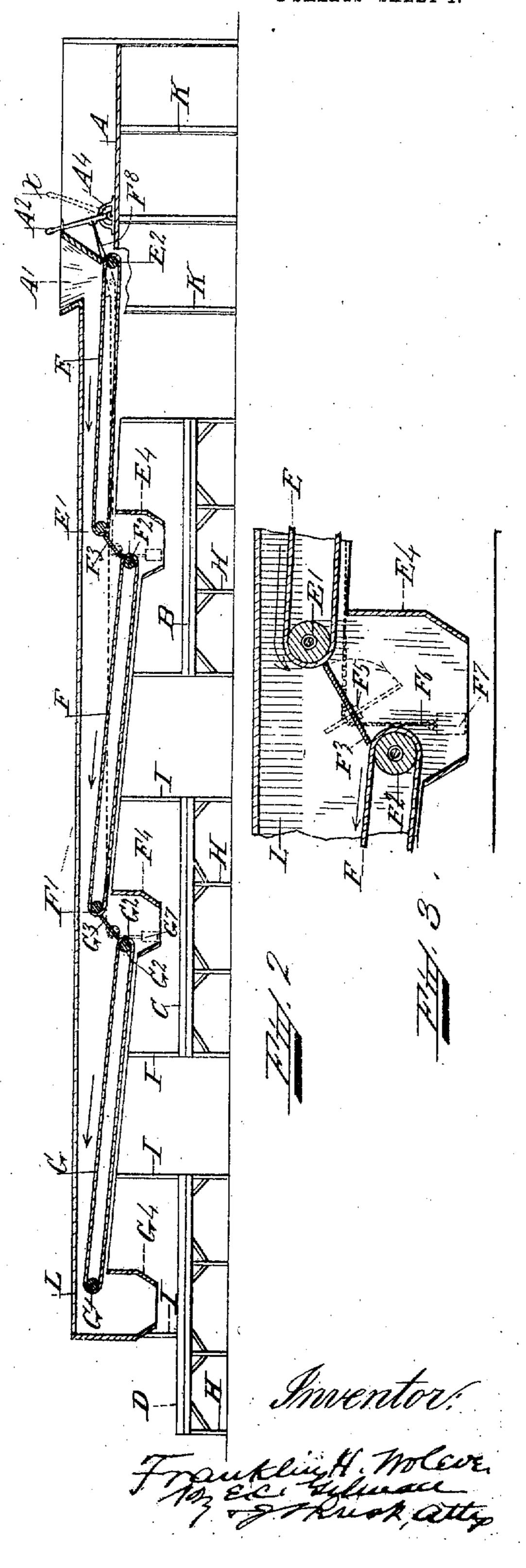
F. H. WOLEVER.
CONVEYING APPARATUS.
APPLICATION FILED MAY 13, 1906.

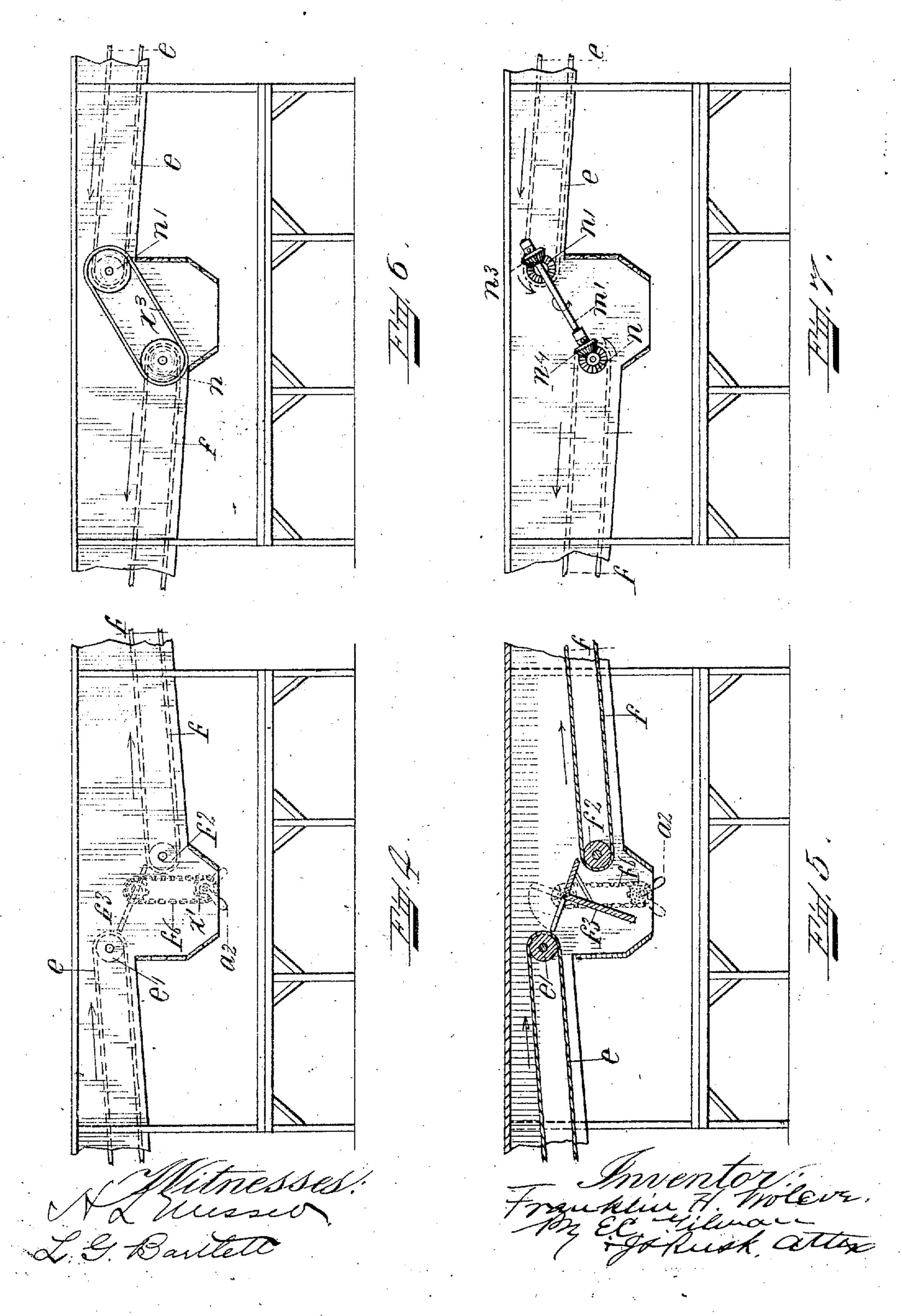
2 SHEETS-SHEET 1.





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2 SHEETS-SHEET 2.



UNITED STATES PATENT OFFICE.

FRANKLIN H. WOLEVER, OF CHICAGO, ILLINOIS, ASSIGNOR TO LAMSON CONSOLIDATED STORE SERVICE COMPANY, OF NEWARK, NEW JERSEY, A CORPORATION OF NEW JERSEY.

CONVEYING APPARATUS.

No. 850,107.

Specification of Letters Patent.

Patented April 9, 1907.

Application filed May 13, 1905. Serial No. 260, 206.

To all whom it may concern:

Be it known that I, Franklin H. Wol-EVER, of Chicago, in the county of Cook and State of Illinois, have invented certain new 5 and useful Improvements in Conveying Apparatus, of which the following is a specification...

This my invention relates to that class of traveling belt conveyers for supporting and to conveying loose articles, such as letters, parcels, or general merchandise; and it consists of a series of revolving endless sections so arranged, combined, and constructed as to convey the said articles from a main or 15 sending station and discharge or drop the same from any section through a hopper upon a receiving shelf or table located under the said section at the will of the operator. This is accomplished by providing an adjust-20 able swinging gate located between each section and which may be operated by a device located at either the main or sending station or at each receiving-station.

Numerous other important features of my 25 invention will be hereinafter described, and particularly pointed out in the claims.

In the accompanying drawings, which illustrate a construction embodying my invention, Figure 1 is a plan view of the device.
30 Fig. 2 is a longitudinal section through the center of Fig. 1. Fig. 3 is an enlarged section showing the discharging-gate and hopper. Fig. 4 shows a modification of the parts shown in Fig. 3, showing a method of 35 operating the gate. Fig. 5 shows a modification of the parts shown in Fig. 4. Fig. 6 shows a modification of the means for driving the belt. Fig. 7 shows a modification of driving the belts by gearing.

Like letters of reference refer to like parts

throughout the several views.

The receiving-tables B, C, and D are supported from the floor by the standards II, Fig. 2, and the main table or sending-station 45 A is supported by the standards K and at a higher elevation than the receiving-tables. The conveyer-frame L is supported above the tables by the standards I. The pulleys G' and G2, carrying the endless belt G, are jour-50 naled in the frame L, the belt G being in running contact with the sides of the frame L. The pulleys F* and F2, carrying the endless |

belt F, and the pulleys E' and E², carrying the endless belt E, are similarly journaled in the said frame L. The pulleys G', F', and 55 E' being mounted higher than the pulleys G², F², and E² cause the belts G, F, and E to run on an incline, and the spaces between the belts are occupied by the swinging gates G³ and F³. At the end of each belt and be- 60 low the same are the hoppers G4, F4, and E4, opening over the receiving-tables D, C, and B, respectively.

The hopper A' on the table A communicates with the belt E and feeds the articles 65

upon said belt.

The motor M is geared to and drives the longitudinal shaft M', which shaft is geared to the pulleys G', F', and E' by the bevelgears N and drives the belts G, F, and E in 70 the direction indicated by the arrows. The adjustable swinging gate F³ (see Fig. 3) is mounted on a spindle F⁹, mounted in the frame L and between the pulleys F² and E'.

A sprocket-wheel F5 is fixed to the spindle 75 F4, and the chain F6 fits over the teeth of said sprocket-wheel, and from the lower end of said chain F⁶ is suspended the weight F⁷. The other end of the chain F⁶ is connected by a wire F⁸ to the lever A², which is pivoted in 80 the bed-plate A⁴, fixed to the table A. The weight F7, acting on the gate F3, holds the said gate F3 in an oblique position, completely filling the space between the belts E and F and at the same time holds the lever 85 A^2 in the position shown in Fig. 2.

The gate G³ is mounted on the spindle G⁹, which spindle is mounted in the frame L between the pulleys G² and F'. The sprocketwheel G⁵ is fixed to the end of the spindle G⁵ 90 outside the frame L, and the chain G⁶ fits over the sprocket-wheel G⁵, from the lower end of which chain is suspended the weight G⁷. The wire P connects the other end of the chain G⁶ with the operating-lever A³.

A modification of the device for operating the gate is shown in Fig. 4, in which the chain f^6 , mounted on the sprocket-wheel f^3 , is controlled by the lever a2, fixed to the sprocketwheel x'. The belt x^3 , Fig. 6, connects the 100 pulleys n and n', which are located outside the frame 1. The pulleys E' actuate the pulleys F² by means of said connection.

In the modification shown in Fig. 7 the

pulley E', carrying the bevel-gear n', drives | the pulley F2, carrying the bevel-gear n, by means of the shaft m', carrying the bevelgears n^3 and n^4 , which intermesh with the

5 gears n and n', respectively. In the operation of the device the loose matter is taken from the table A and deposited in the hopper A', whence it drops upon the belt E and immediately commences to to travel on the said belt in the direction indicated by the arrow. If the matter is consigned to the receiving-station B, the lever A2 is pulled, which swings the gate F3 into the position indicated by the dotted lines in 15 Fig. 3, and the matter runs off the belt E and through the opening left by the gate F3, thence through the hopper E4 and out upon the table B. The lever A2 is then released and the weight F' drops, throwing the gate 20 F3 back into its initial position. If the matter is consigned to the receiving-station C, the lever A3 is pulled, swinging the gate G3 into a similar position, as shown in dotted lines, Fig. 3, and the matter falls from the 25 belt E, slides down the closed gate F3 onto the belt F, and thence through the opening made by the gate G3 through the hopper F4 and out upon the table C. The lever is then released and the gate G3 assumes its initial 30 position, as heretofore described, closing the opening between the belts F and G. If neither of the levers are operated, the loose matter runs off the belt G through the hopper G4 and out upon the table D.

Having thus described the nature of my invention and set forth a construction emdesire to secure by Letters Patent of the name to this specification, in the presence of bodying the same, what I claim as new, and

United States, is—

1. In a conveyer, a framework, pulleys mounted in said framework, an endless belt supported by said pulleys, means for driving said belt, means for feeding articles to said belt, and swinging means for diverting said

articles discharged from said belt into a re- 45 ceiver located thereunder.

2. In a conveyer, a framework, pulleys mounted in said framework, a plurality of endless belts supported by said pulleys, means for driving said belts, means for feed- 50 ing articles to said belts, and means located between and contiguous to said belts for feeding said articles from one belt to another, said swinging means adjustable to divert said articles from any one of said belts into a re- 55 ceiver located thereunder.

3. In a conveyer, a framework, pulleys mounted in said framework, a plurality of endless belts supported by said pulleys, means for driving said belts—said belts run- 60 ning contiguous with the side of said framework, means for feeding articles to said belts, and swinging means located between and contiguous to said belts for feeding said articles from one belt to another, said means 65 adjustable to divert said articles from any one of said belts into a receiver located thereunder.

4. In a conveyer, a framework, pulleys mounted in said framework, a plurality of 70 endless belts supported by said pulleys, means for driving said belts—said belts running contiguous with the side of said framework, means for feeding articles to said belts, and pivoted means located between and 75 contiguous to said belts for feeding said articles from one belt to another, said means adjustable to divert said articles from any one of said belts into a receiver located thereunder.

In testimony whereof I have signed my two subscribing witnesses, this 6th day of May, A. D. 1905.

FRANKLIN H. WOLEVER.

Witnesses: CLEMENT E. THOMPSON, LORENZ P. WOLF.