

No. 871,586.

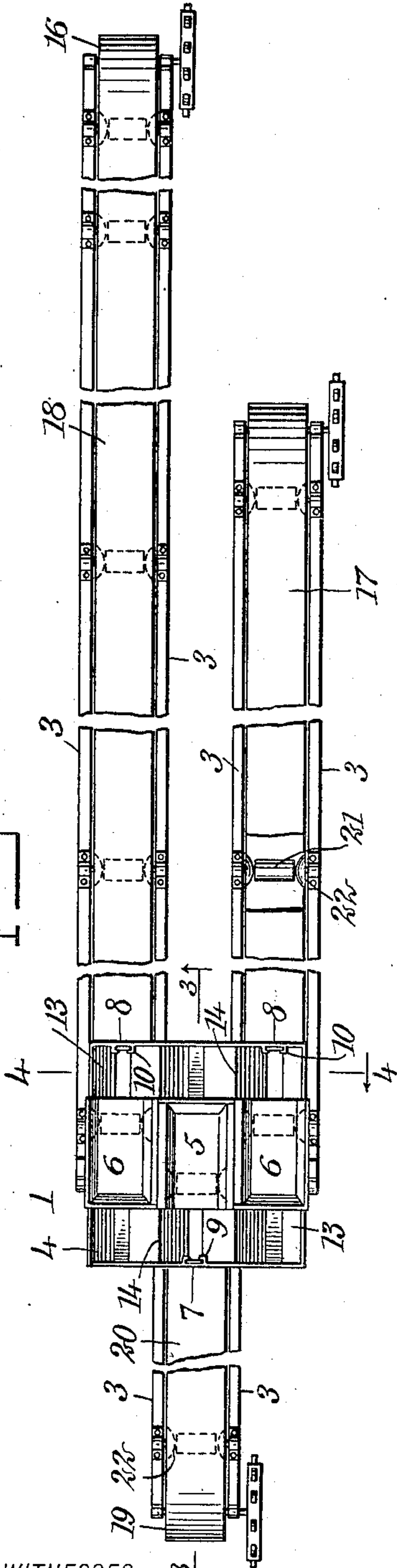
PATENTED NOV. 19, 1907.

J. HALL.  
CARRIER.

APPLICATION FILED MAR. 19, 1907.

2 SHEETS—SHEET 1.

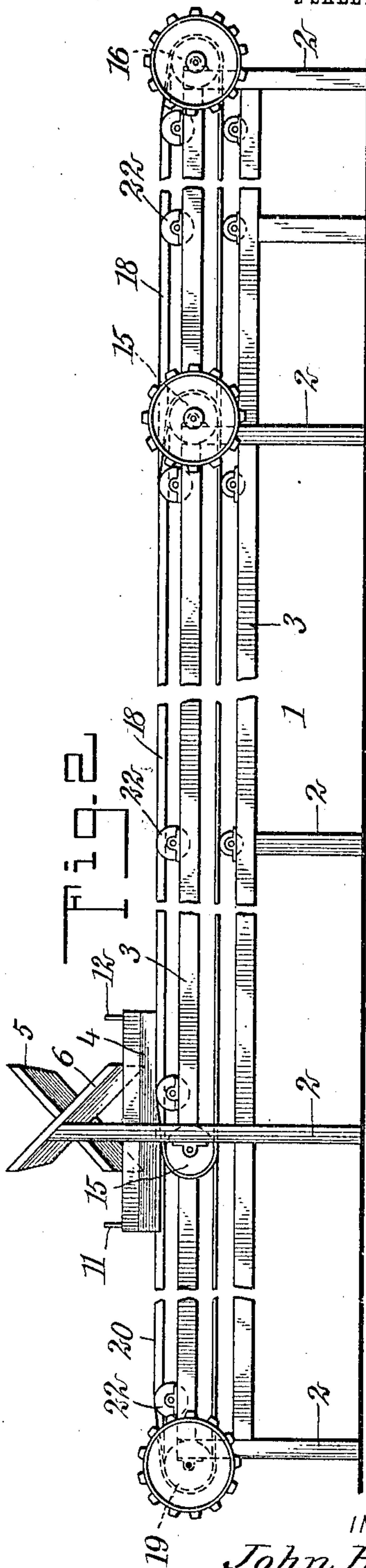
Fig. 1



WITNESSES

*J. A. Propoy*  
*John K. Brachwood*

Fig. 2



INVENTOR

*John Hall*

BY

*Mum & Co*

ATTORNEYS

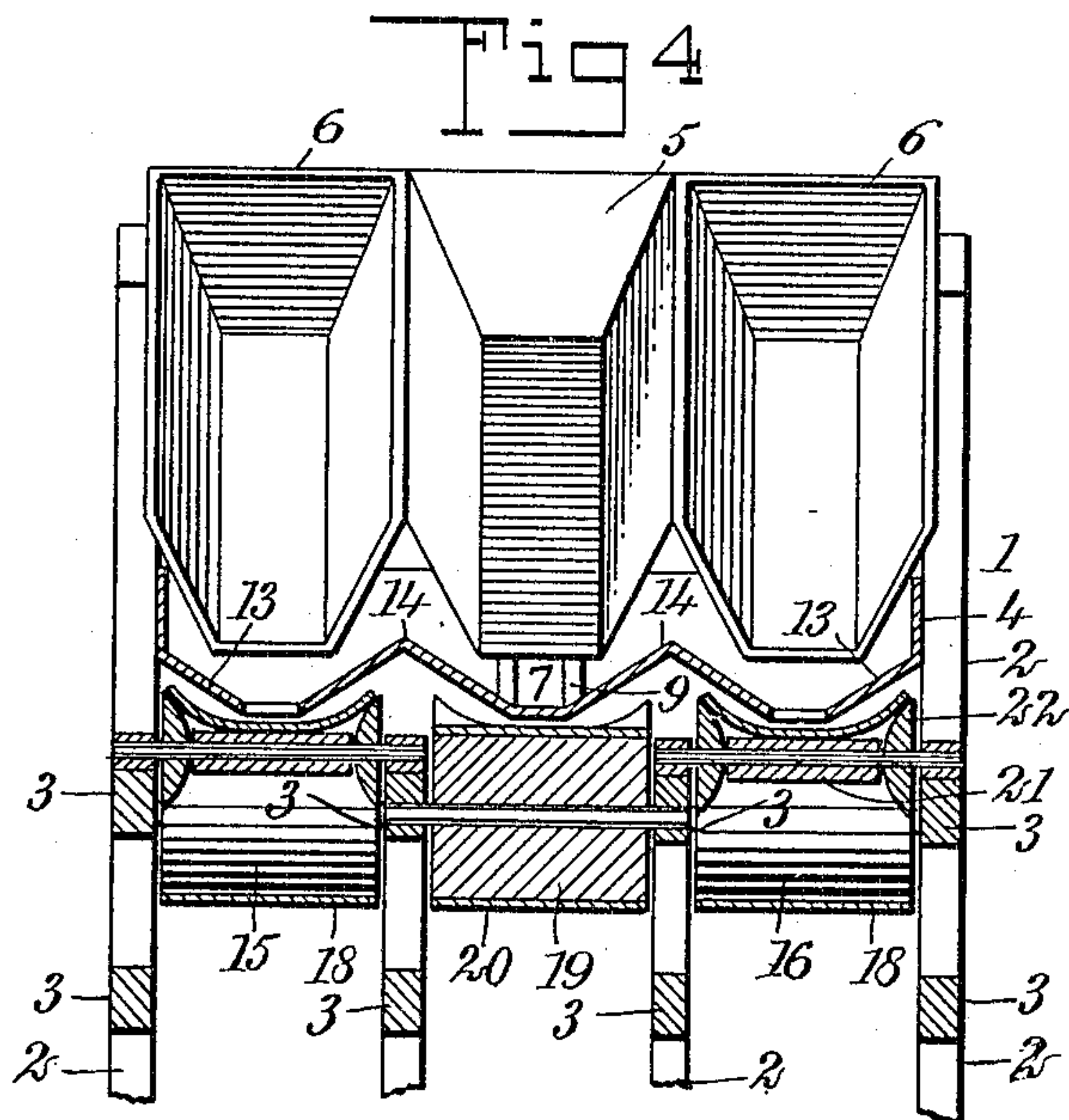
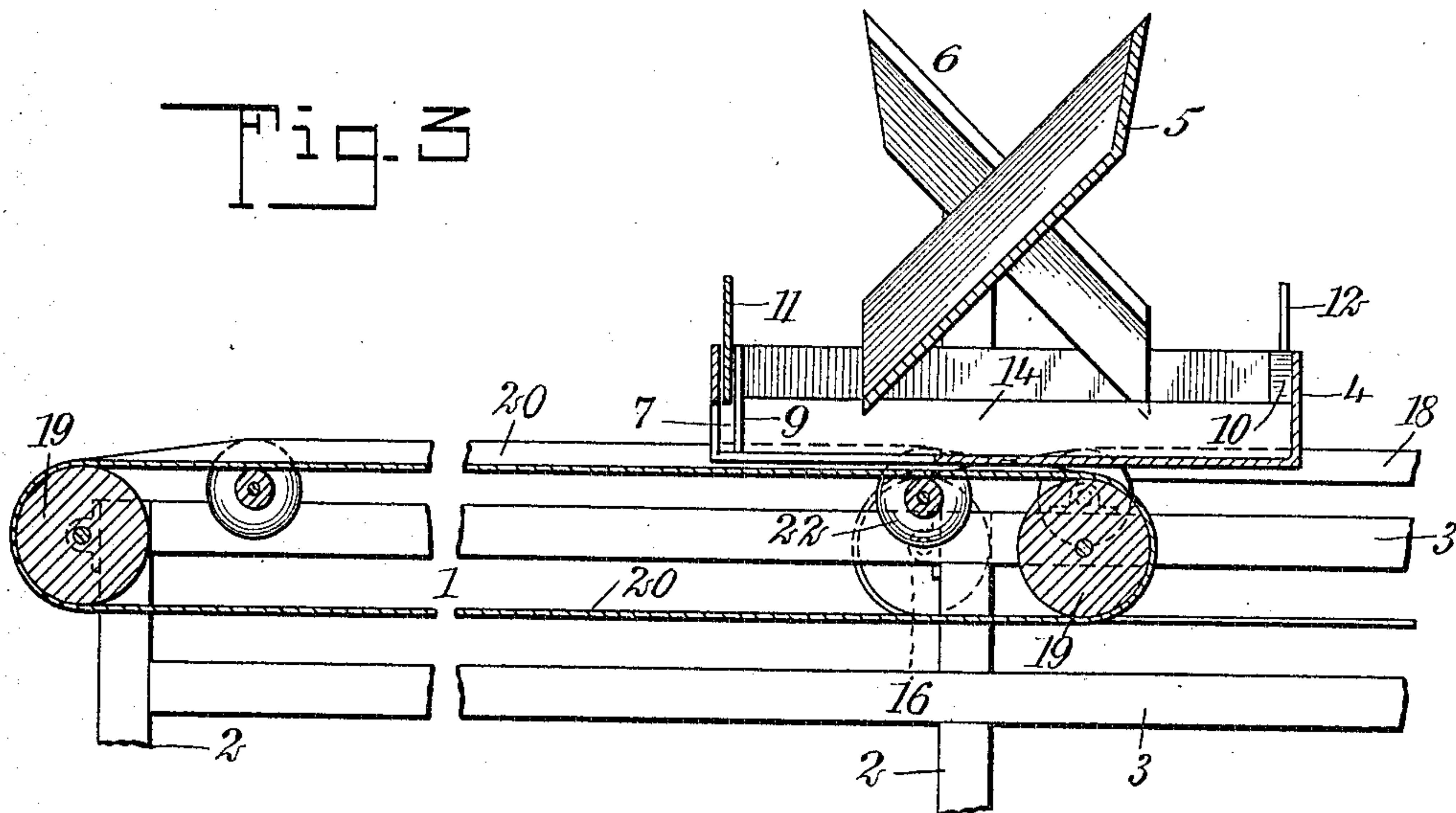
No. 871,586.

PATENTED NOV. 19, 1907.

J. HALL.  
CARRIER.

APPLICATION FILED MAR. 19, 1907.

2 SHEETS—SHEET 2.



WITNESSES

*J. A. Brophy*  
*John K. Brachvogel*

INVENTOR

*John Hall*  
BY *Mum & Co*

ATTORNEYS



# UNITED STATES PATENT OFFICE.

JOHN HALL, OF FRESNO, CALIFORNIA.

## CARRIER.

No. 871,586.

Specification of Letters Patent.

Patented Nov. 19, 1907.

Application filed March 19, 1907. Serial No. 363,251.

*To all whom it may concern:*

Be it known that I, JOHN HALL, a citizen of the United States, and a resident of Fresno, in the county of Fresno and State of California, have invented a new and Improved Carrier, of which the following is a full, clear, and exact description.

This invention relates to carriers and is particularly useful in connection with devices of this character used for the purpose of carrying, assorting and distributing grain, fruit, coal, raisins and all other similar loose material.

The object of the invention is to provide a device of this character, of simple and efficient construction, which is adapted for the simultaneous conveyance of material to different oppositely located points, and which is provided with a plurality of conveyers all having belts.

A further object of the invention is to provide a carrier having a plurality of conveyers and which is so constructed that if through accident one of these conveyers becomes blocked or otherwise inoperative, the material being distributed to the inoperative conveyer will be directed to an adjacent operative conveyer.

The invention consists in the construction and combination of parts to be more particularly described hereinafter and fully set forth in the claims.

Reference is to be had to the accompanying drawings forming a part of this specification, in which

Figure 1 is a plan view of my invention; Fig. 2 is a side elevation of my invention; Fig. 3 is an enlarged longitudinal cross section on the line 3—3 of Fig. 1; and Fig. 4 is an enlarged vertical cross section on the line 4—4 of Fig. 1.

Referring more particularly to the drawings, I provide a frame-work 1 of any suitable material and construction, having supports 2 and longitudinal members 3. Mounted upon the frame-work 1 is a distributing box 4 which may be of sheet-metal, wood, or other suitable material. The supports 2 adjacent to the distributing-box 4 extend thereabove and carry trough-like hoppers 5 and 6, the hopper 5 being located between two similar outside hoppers 6. These hoppers are of conventional form with inclined sides and ends and with the lower end open as appears clearly in Fig. 4. The hopper 5 is mounted at an angle with the

distributing box and the hoppers 6 are mounted at a similar angle with the distributing box but oppositely inclined to the hopper 5. The ends of the distributing box adjacent to the hoppers 5 and 6 are provided with openings 7 and 8. At the edges of the openings 7 and 8 are guides 9 and 10 within which are slidably mounted gates 11 and 12 adapted for the purpose of adjusting the sides of the opening. The bottom of the distributing box is provided with longitudinal distributing inclines 13 and 14, the incline 13 consisting of a single inclined member at the longitudinal sides of the box, while the inclines 14 comprise two oppositely inclined members parallel with the longitudinal sides of the box and located substantially between the members 5 and 6.

It will be understood that the hoppers 6 direct material placed therein toward the opening 8 in the end of the box, while the hopper 5 directs the material therein toward the opening 7. The construction is such however, that material from the hopper 6 which falls on the side of the incline 14 remote from the hopper is directed toward the opening 7 adjacent to the hopper 5; similarly, material from any hopper may be directed toward the opening fed by an adjacent hopper. The advantage of this construction lies therein that if one opening becomes choked the material being fed toward this opening will after a few moments when the portion of the distributing box before the choked opening has filled up, be directed toward the opening fed by an adjacent hopper.

The longitudinal members 3 of the framework extend horizontally in opposite directions from the openings 8 and 7 and also extend underneath the distributing box. Rotatably mounted upon the framework are drums 15 and 16 over which pass belts 17 and 18 constituting conveyers to be fed by the openings 8 of the distributing box. Similarly, drums 19 carry a conveying belt 20 fed by the opening 7 of the distributing box. The belts 17 and 18 pass over guide rollers 21 pivotally mounted upon the framework and having lateral disks 22 adapted to elevate the edges of the belt into trough-like form to assist in the conveying and to prevent the material from being lost over the edges of the belts. The drums 15, 16 and 19 are adapted to be driven in any convenient manner from the usual prime mover.

It will be understood that the conveying



belts may be of any suitable length and may extend in any desired direction. Furthermore, the number of belts need not be limited to three as in the illustration but may consist of any number desired. The size of the distributing box and the number of hoppers depending similarly upon the number of belts necessary. By means of the plurality of members and the distributing box, material may be conveyed in different directions from a common point. The different hoppers are adapted for sorting of the material at the common distributing point, while the amount of material distributed can be closely regulated by means of the adjustable gates of the distributing box openings.

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

1. In a carrier, a distributing box, a conveyer adapted to carry material from said box, a hopper for directing material into said box and at an angle therewith, a second hopper at an angle with said first hopper, and means for directing the material from said hoppers to said conveyer.

2. In a carrier, a distributing box, conveyers adapted to carry material from said box, a hopper for directing material into said box and at an angle therewith, a second hopper at an angle with said first hopper, and means for directing material from said hoppers to each of said conveyers.

3. In a carrier, a distributing box having adjustable openings near the ends thereof, conveyers adapted to carry material from said openings, an inclined hopper for directing material into said box, a second oppositely inclined hopper, means for directing material from said hoppers to each of said openings.

4. In a carrier, a distributing box, a conveyer adapted to carry material from said box, a second conveyer adapted to carry material from said box, a hopper for direct-

ing material into said box, and a distributing incline between said conveyers for directing material to both said conveyers.

5. In a carrier, a distributing box having openings at opposite ends thereof belt conveyers adapted to remove material through said openings, a hopper for directing material into said box, distributing inclines between said openings and adjusting means at said openings.

6. In a carrier, a distributing box, a belt conveyer adapted to carry material from said box, a hopper for directing material into said box and at an angle therewith, a second hopper at an angle with said first hopper, and a distributing incline between said hoppers and substantially parallel to the longitudinal direction of one of said hoppers.

7. In a carrier, a distributing box, a belt conveyer adapted to carry material from said box, a hopper for directing materials into said box and at an angle therewith, and a second hopper at an angle with said first hopper, said distributing box having distributing inclines formed at the bottom thereof for directing material from each of said hoppers to each of said conveyers.

8. In a carrier, a distributing box having end-walls openings, in said end walls adjustable gates at said openings, conveyers adapted to carry material from said openings, an inclined hopper for directing materials into said box, a second oppositely inclined hopper, and distributing inclines between said openings for directing material from each of said hoppers to each of said openings.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOHN HALL.

Witnesses:

GEO. B. GRAHAM,  
D. H. CASHIN