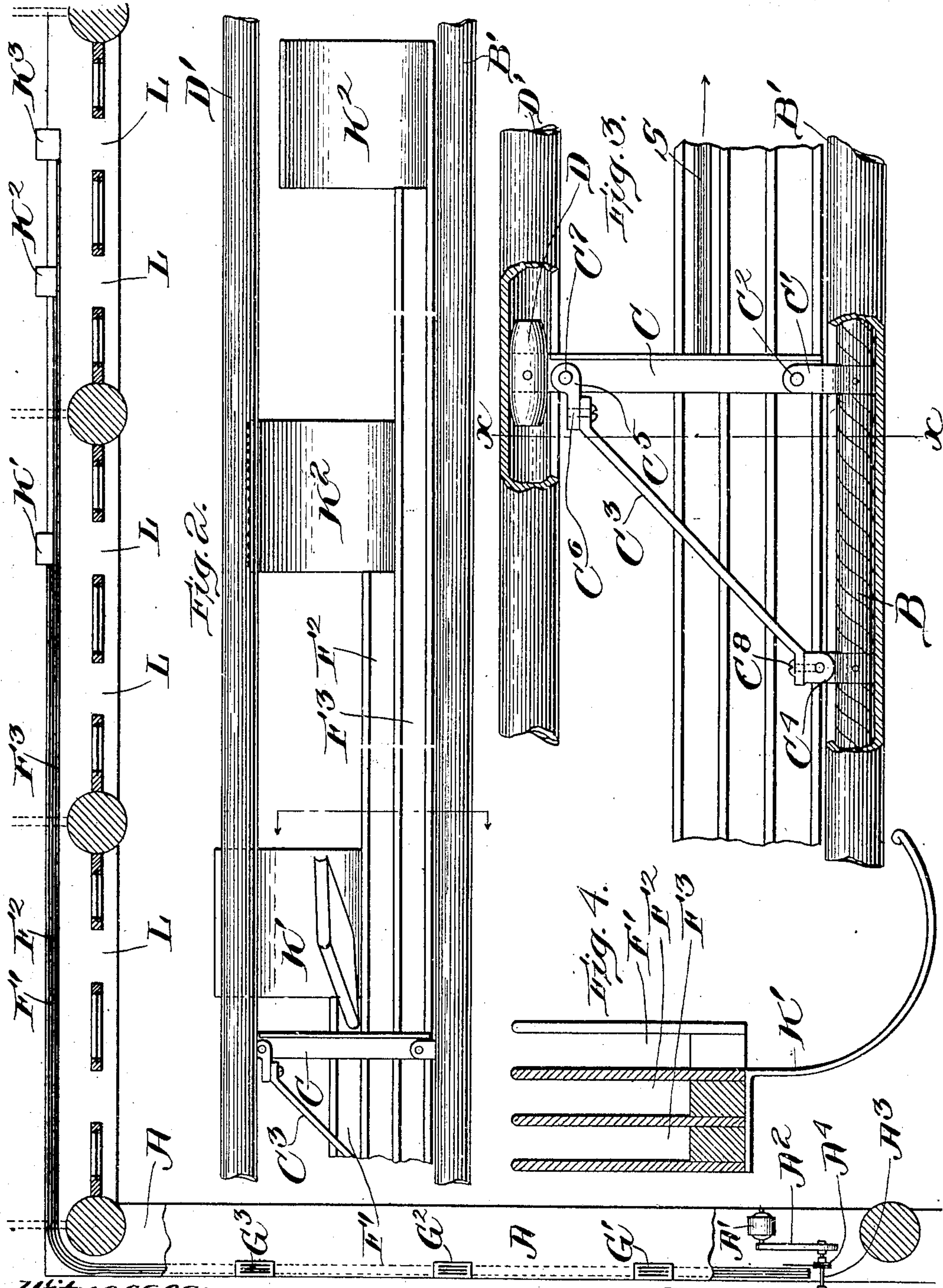


No. 869,351.

PATENTED OCT. 29, 1907.

J. T. COWLEY.  
CONVEYING APPARATUS.  
APPLICATION FILED AUG. 7, 1906.

3 SHEETS—SHEET 1.



Witnesses:

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Fig. 1.

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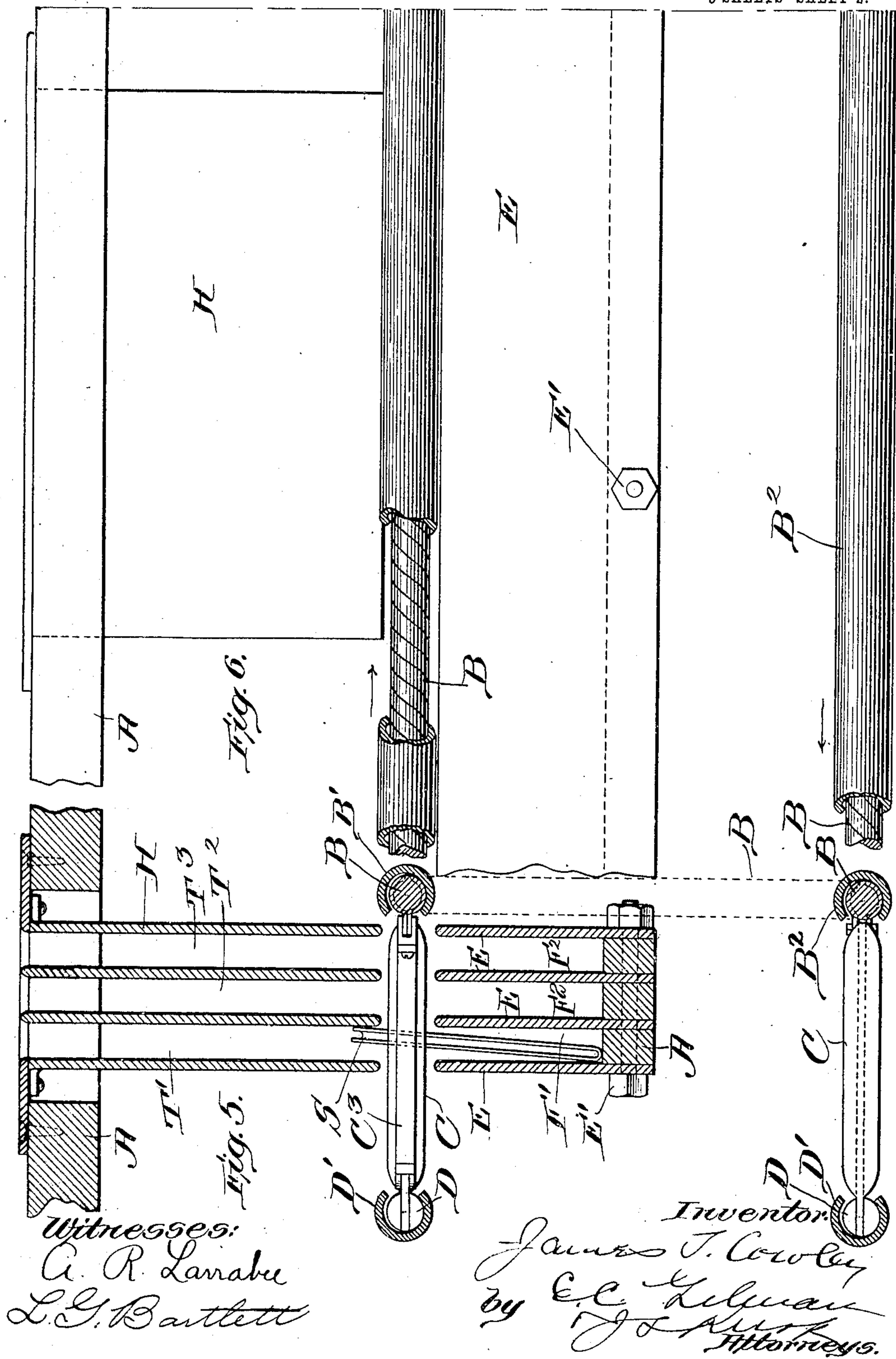
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3 SHEETS—SHEET 2.





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3 SHEETS—SHEET 3.

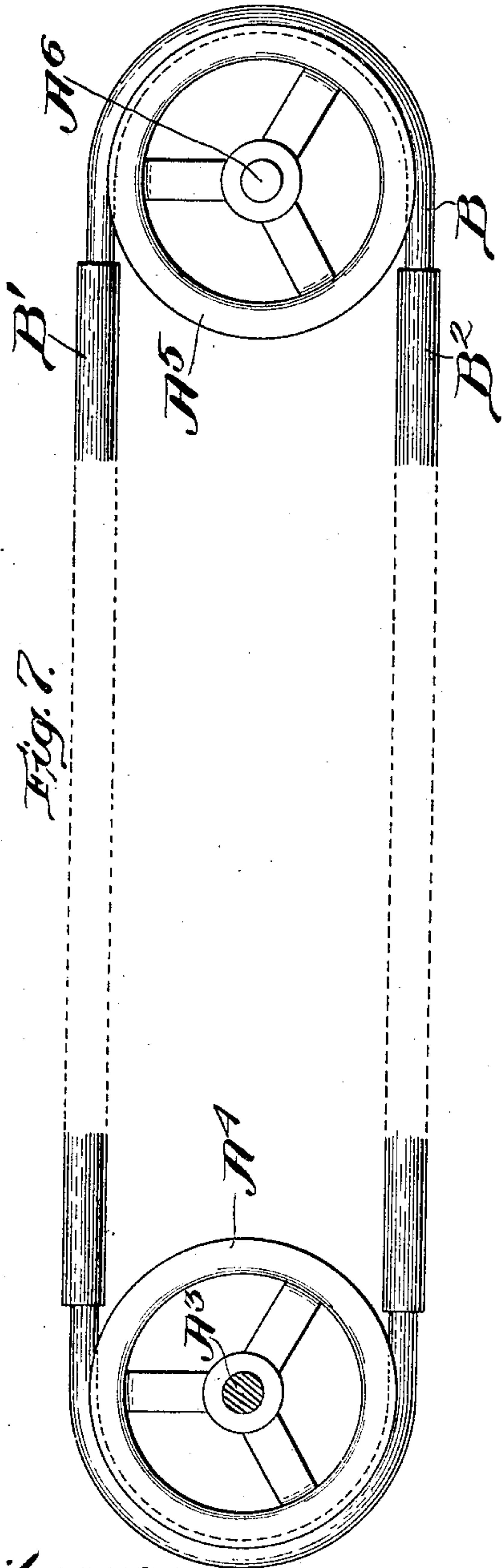
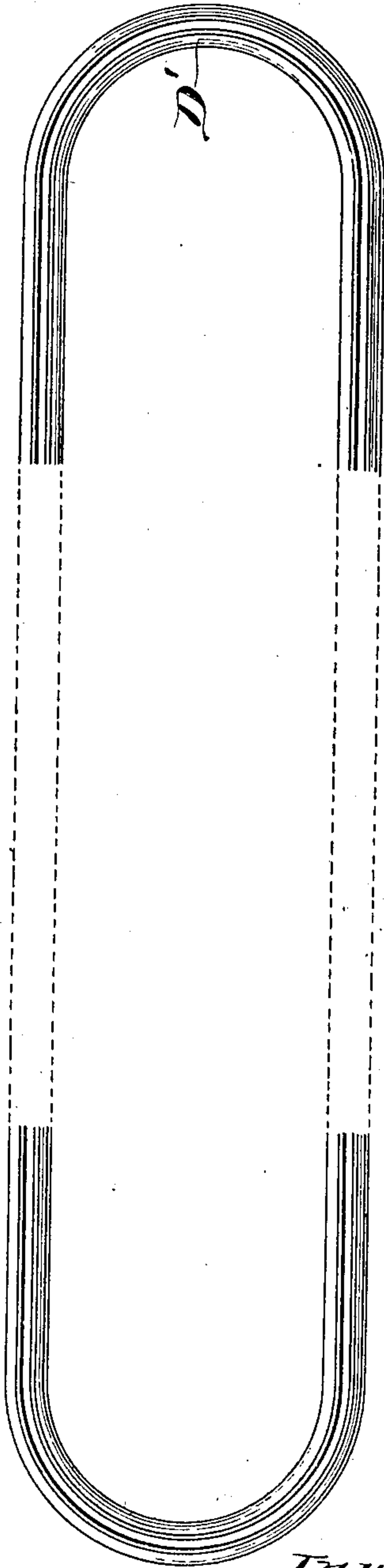


Fig. 8.



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# UNITED STATES PATENT OFFICE.

JAMES T. COWLEY, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO LAMSON CONSOLIDATED STORE SERVICE COMPANY, OF NEWARK, NEW JERSEY, A CORPORATION OF NEW JERSEY.

## CONVEYING APPARATUS.

No. 869,351.

Specification of Letters Patent:

Patented Oct. 29, 1907.

Application filed August 7, 1905. Serial No. 272,943.

*To all whom it may concern:*

Be it known that I, JAMES T. COWLEY, of Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Con-  
veying Apparatus, of which the following is a speci-  
fication.

My invention relates to improvements in conveying apparatus, and its principal object is to furnish a system so constructed, combined and operated as to han-  
dle with facility and despatch, books, tickets or simi-  
lar articles required to be conveyed or interchanged be-  
tween stations or desks, as in banks, telephone offices  
and the like.

In the accompanying drawings which illustrate a con-  
struction embodying my invention, Figure 1 is a dia-  
gram showing the general arrangement of the system  
for conveying pass books in banks. Fig. 2 is an en-  
larged portion of the parts shown in Fig. 1 showing the  
location of the receiving stations. Fig. 3 is an enlarged  
plan view of a portion of the device showing the con-  
struction of the actuating mechanism. Fig. 4 is a sec-  
tion through the guide channels and showing the shelf  
for receiving the books. Fig. 5 is a sectional view of  
Fig. 3 on the line *x x*. Fig. 6 is a side elevation of  
Fig. 5. Fig. 7 is a side elevation of the belt mounted  
in the tube. Fig. 8 is a side elevation of the shoe tube.

Like letters of reference refer to like parts throughout the several views.

The motor *A'* mounted upon the shelf or counter *A*  
(Fig. 1) drives the grooved pulley *A<sup>4</sup>* mounted upon  
the shaft *A<sup>3</sup>*. The round endless belt *B* is mounted  
upon the said grooved driving pulley *A<sup>4</sup>* and the  
grooved pulley *A<sup>5</sup>* is mounted on the shaft *A<sup>6</sup>* (Fig. 7).  
The said belt *B* runs in the upper tube *B'* and the lower  
tube *B<sup>2</sup>* both of which tubes are round and have longi-  
tudinal slots (Fig. 5) upon one side. The push bar  
*C* is fastened to the belt *B* by the metal clip *C'* pivoted  
to said push bar *C* by the pin *C<sup>2</sup>* forming a joint. The  
other end of the push bar *C* is supported by the bar *C<sup>3</sup>*,  
which bar is pivoted to the yoke *C<sup>5</sup>* by the screw *C<sup>6</sup>*,  
the said yoke *C<sup>5</sup>* being pivoted to the push bar *C* by the  
pin *C<sup>7</sup>* forming a combination horizontal and vertical  
joint allowing the push bar to round the corners. The  
lower end of the bar *C<sup>3</sup>* is pivoted by the screw *C<sup>8</sup>* to  
the metal clip *C<sup>4</sup>* fastened around the belt *B*. The  
shoe *D* is pinned to the end of the push bar *C* and is  
adapted to travel in the metal tube *D'* which has a lon-  
gitudinal slot located therein allowing the travel of the  
push bar *C*. Similar push bars are similarly mounted  
at intervals upon the belt *B*. The longitudinal strips  
*E* are set in the lower part of the counter *A* and fas-  
tened by the bolts *E'* forming the longitudinal chan-  
nels or ways *F'*, *F<sup>2</sup>*, *F<sup>3</sup>*, for the passage of the articles.  
At the despatching stations *G'*, *G<sup>2</sup>* and *G<sup>3</sup>* (Fig. 5) the  
slotted frame *H* is drop fastened in a slot in the upper

counter *A* and the slots *T'*, *T<sup>2</sup>* and *T<sup>3</sup>* therein allow the  
articles to be dropped through into the lower corre-  
sponding channels *F'*, *F<sup>2</sup>* and *F<sup>3</sup>*.

Receiving stations *K'*, *K<sup>2</sup>* and *K<sup>3</sup>* are located at dif-  
ferent points along the system and consist of a shelf lo-  
cated at the open terminus of each channel adapted to  
receive the articles pushed out of said channels. Open-  
ings *L* represent windows for the transaction of busi-  
ness.

The operation is as follows: The pass books or arti-  
cles may be conveyed or distributed from any of the  
operators or book-keepers (as in a bank) located at the  
desks or despatching stations *G'*, *G<sup>2</sup>* and *G<sup>3</sup>*, to any of  
the different tellers stationed at the counter in front  
of the windows represented by the receiving stations  
*K'*, *K<sup>2</sup>* and *K<sup>3</sup>*. The operator or bookkeeper at de-  
spatching station *G<sup>2</sup>* desiring to despatch a pass book to  
the teller located at *K'* drops the book through the slot  
*T'* in said despatching station *G<sup>2</sup>* (Fig. 5) whereupon  
the book drops into the lower channel track *F'*. The  
next push bar *C* coming engages the book *S* carrying  
same along the channel track *F'* in the direction indi-  
cated by the arrow (Fig. 3). Upon arriving at the open  
terminus of the channel track *F'*, the book drops out  
upon the shelf *K'* (see Figs. 2 and 3). Pass books may  
be sent in similar fashion from any one of the despatch-  
ing stations.

Having thus described the nature of my invention  
and set forth a construction embodying the same, what  
I claim as new and desire to secure by Letters Patent  
of the United States is:

1. In a conveying apparatus, a channel track or way, a  
chute or guide mounted over said channel track or way and  
adapted to guide articles into said channel track or way,  
an endless traveling belt or cable, an actuating bar piv-  
oted to said belt or cable and adapted to engage said arti-  
cles, means for supporting and guiding said actuating bar  
in its path of travel and means for receiving said articles  
from said channel track or way.

2. In a conveying apparatus, a channel track or way, a  
plurality of chutes or guides mounted over said channel  
track or way and adapted to guide articles into said chan-  
nel track or way, an endless traveling belt or cable, a plu-  
rality of actuating bars pivoted to said belt or cable and  
adapted to engage said articles, means for supporting and  
guiding said actuating bars in their path of travel, and  
means for receiving said articles from said channel track  
or way.

3. In a conveying apparatus, a plurality of channel  
tracks or ways, a plurality of chutes or guides mounted  
over said channel tracks or ways, means in said chutes  
or guides for guiding articles into any of said channel  
track or ways, an endless traveling belt or cable, a plu-  
rality of actuating bars pivoted to said belt and adapted  
to engage said articles, means for supporting and guiding  
said actuating bars in their path of travel, and means for  
receiving said articles from said channel tracks or ways.

4. In a conveying apparatus, an endless belt or cable,  
pulleys mounted in suitable bearings supporting said en-  
dless belt or cable, means for driving said belt or cable, a



- plurality of channel tracks or ways located adjacent the path of travel of said belt or cable, a receiving shelf or station located at the open terminus of each channel track or way, a plurality of chutes or guides mounted over said
- 5 channel tracks or ways, means in said chutes or guides for predetermining the destination of articles to be conveyed along said channel tracks or ways, actuating bars pivoted to said belt or cable, bars pivoted to said cable and to the free ends of said actuating bars, shoes mounted
- 10 on the free ends of said actuating bars, and the endless tube in which said shoes are supported and guided during their travel.
5. In a conveying apparatus, a channel-track or way, a chute adapted to guide and permit the insertion of articles into said channel-track or way, and projecting means
- 15 for engaging and moving said articles along said channel-track or way.
6. In a conveying apparatus, a channel-track or way, a chute adapted to guide and permit the insertion of arti-

cles into said channel-track or way, projecting means for engaging and moving said articles along said channel-track or way, and means for receiving said articles from said channel-track or way. 20

7. In a conveying apparatus, a channel track or way, a chute adapted to guide and permit the insertion of articles into said channel track or way, means for engaging the upper ends of said articles in said channel track or way and for moving said articles along the same, and means for receiving said articles from said channel track or way. 25 30

In testimony whereof, I have signed my name to this specification in the presence of two subscribing witnesses, this 28 day of July A. D. 1905.

JAMES T. COWLEY.

Witnesses:

WILLIAM WILCOX,  
WM. H. EVANS.