

No. 741,378.

PATENTED OCT. 13, 1903.

F. L. SATTLEY.
STRAW STACKER.

APPLICATION FILED JUNE 1, 1903.

NO MODEL.

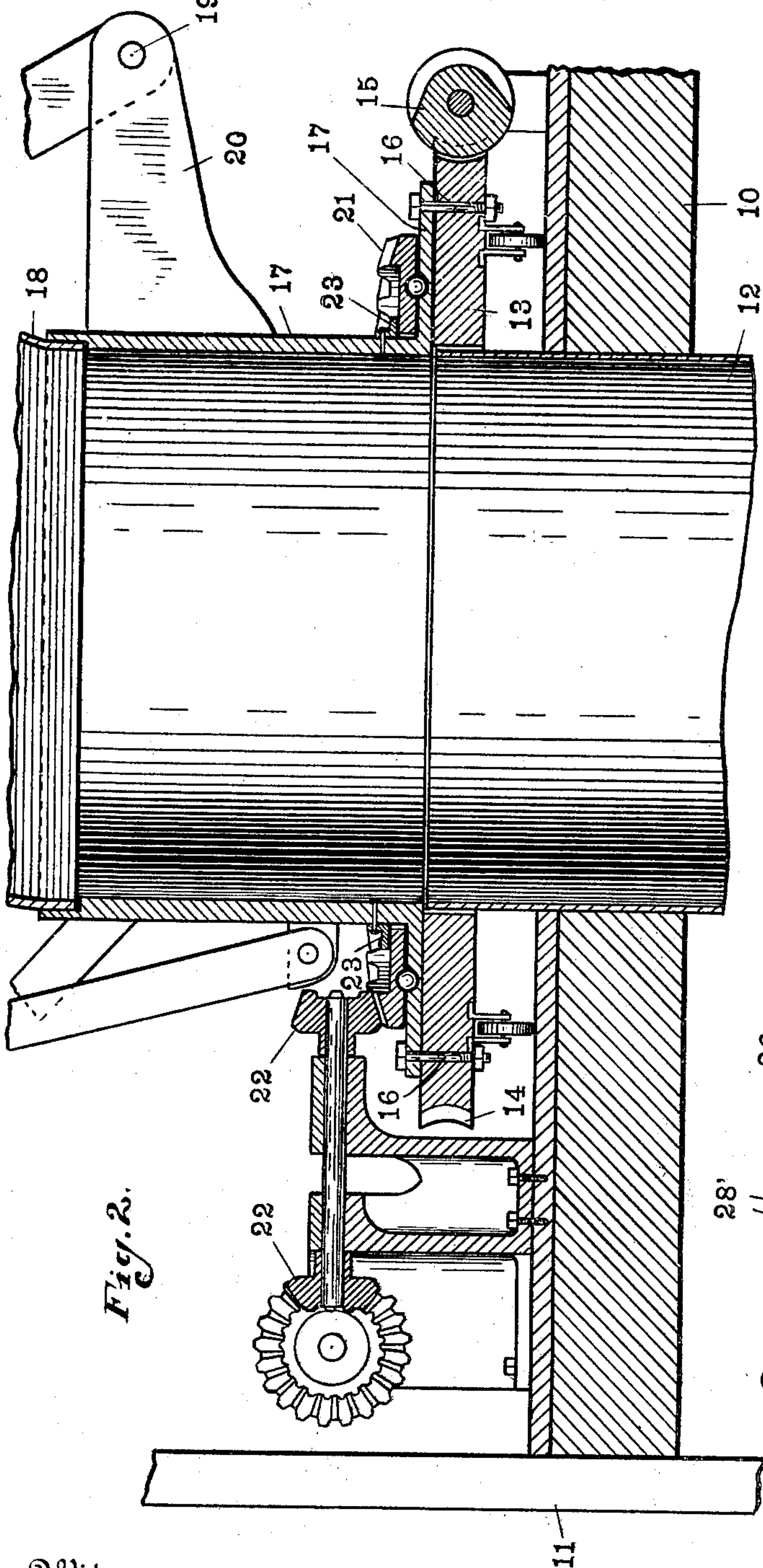
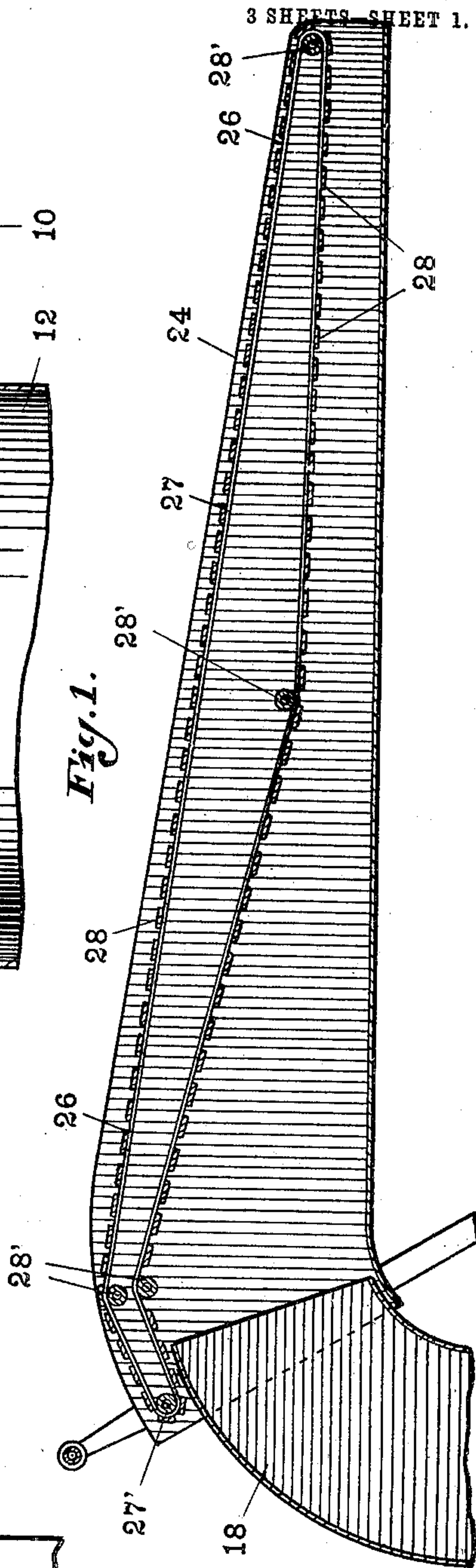


Fig. 2.

Fig. 1.



3 SHEETS - SHEET 1.

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3 SHEETS—SHEET 2.

Fig. 3.

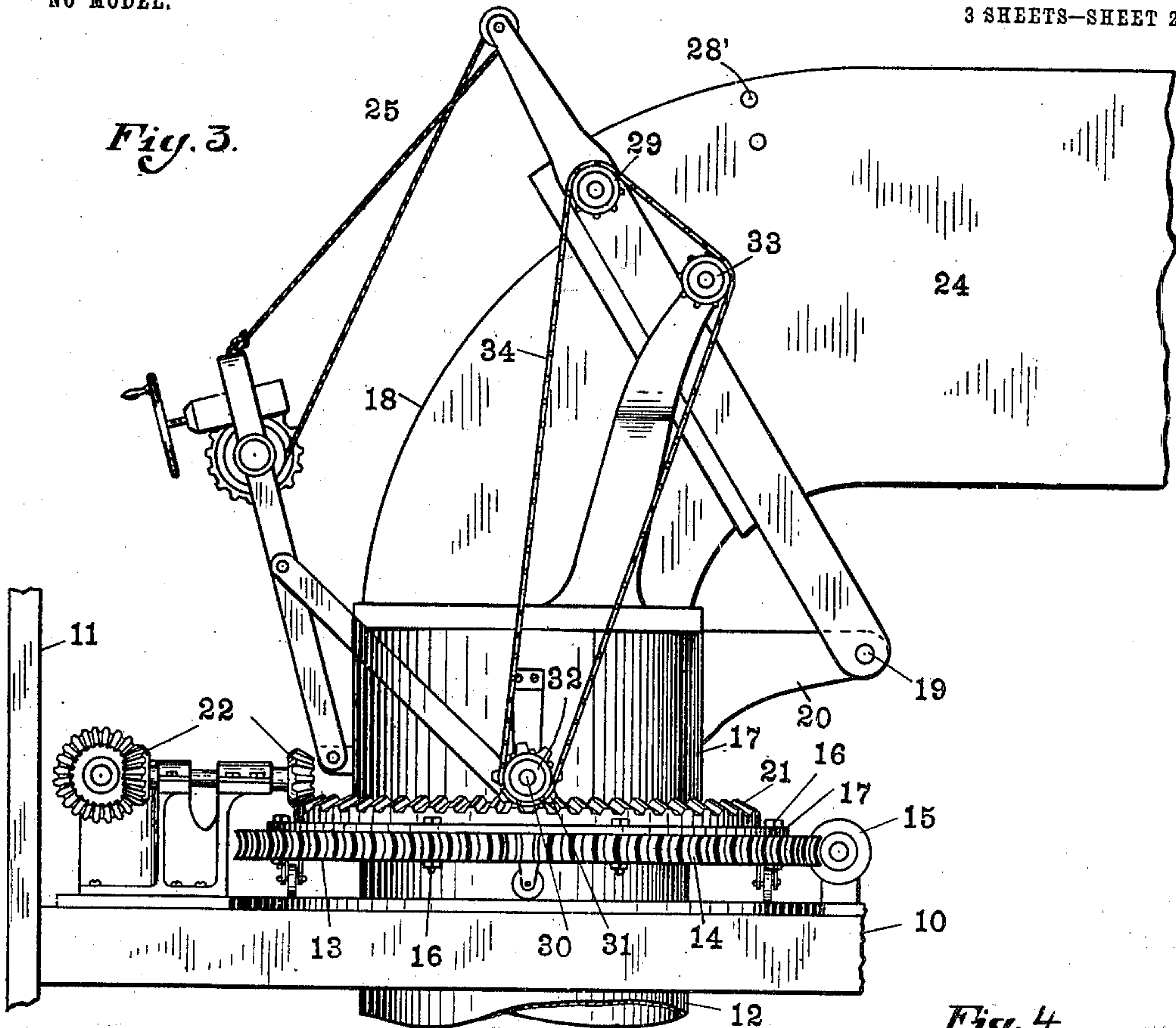
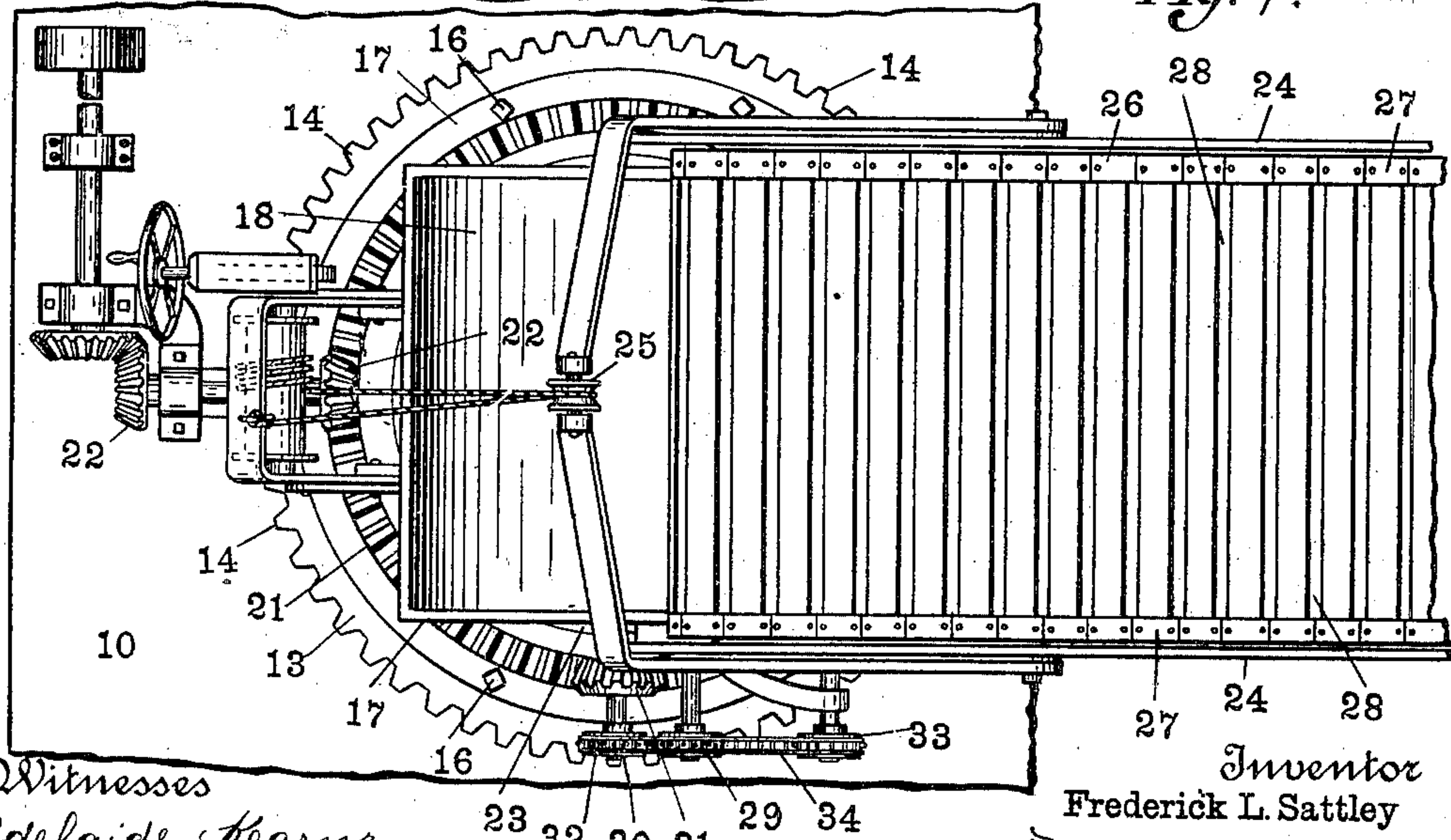


Fig. 4.



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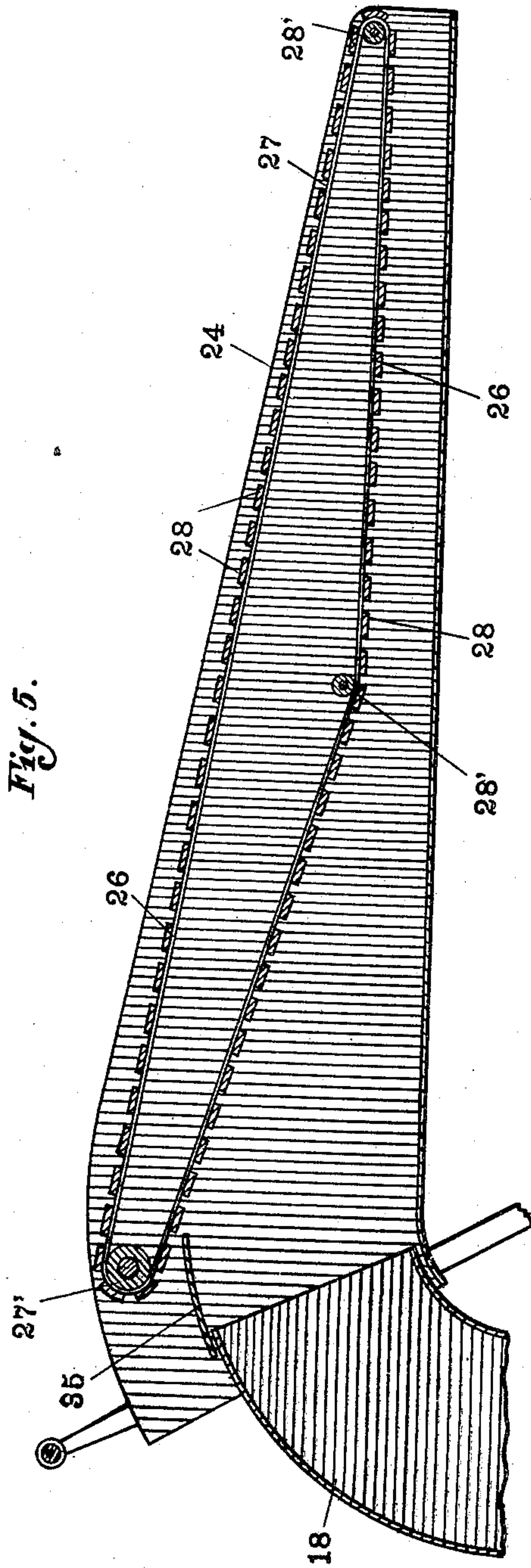
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3 SHEETS—SHEET 3.



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UNITED STATES PATENT OFFICE.

FREDERICK L. SATTLEY, OF INDIANAPOLIS, INDIANA, ASSIGNOR TO THE SATTLEY STACKER COMPANY, OF INDIANAPOLIS, INDIANA, A CORPORATION OF MAINE.

STRAW-STACKER.

SPECIFICATION forming part of Letters Patent No. 741,378, dated October 13, 1903.

Application filed June 1, 1903. Serial No. 159,569. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK L. SATTLEY, a citizen of the United States, residing at Indianapolis, in the county of Marion and State of Indiana, have invented certain new and useful Improvements in Straw-Stackers, of which the following is a specification.

My invention relates to an improvement in that type of straw-stackers shown in Patent No. 724,097, issued March 31, 1903, to John Heineke; and the object of my invention is to provide improvements in details of construction, which will be hereinafter pointed out.

The accompanying drawings illustrate my invention.

Figure 1 is a vertical section of the outer or discharge duct; Fig. 2, a similar section, on a larger scale, of the turn-table and adjacent parts; Fig. 3, a side elevation on a smaller scale; Fig. 4, a plan of the parts shown in Fig. 3, and Fig. 5 another form of the construction shown in Fig. 1.

In the drawings, 10 indicates a platform supported in the usual manner at the rear end of a separator-casing 11, and leading upward through said platform 10 is the discharge-pipe 12 of the usual blast-fan (not shown) of a pneumatic stacker. Surrounding the upper end of pipe 12 is a turn-table 13, mounted upon platform 10 in any usual manner, so as to rotate about the upper end of pipe 12. Turn-table 13 is provided upon its periphery with teeth 14, with which a usual driving-worm 15 meshes, said worm being driven by any suitable means as may be desired. Thus far the apparatus may be substantially identical with any well-known type of turn-table for pneumatic stackers. Detachably secured to turn-table 13 by bolts 16 is a section 17, the lower end of which is circular and of substantially the same size as pipe 12, while the upper or curved end is preferably rectangular in cross-section, to which is attached a tubular extension 18, formed in the segment of an annulus concentric with the pivot 19, carried by arms 20, projecting from section 17. Mounted upon the foot or flange of section 17 and independently rotatable thereon is a gear-ring 21, which is adapted to be continuously driven

by means of a train of gearing 22. Gear-ring 21 is held in position by means of a collar 23, secured to section 17, the arrangement being such that by removing bolts 16 section 17, together with all of the parts attached thereto, including the gear 21, may be lifted bodily from the turn-table 13, so that an ordinary pneumatic delivery-tube may be attached to said turn-table. Pivoted upon arms 20 is a discharge-section 24, which is trough-like in form, having a bottom and two sides, and said trough-like discharge-section may be adjusted vertically about pivot 19 by any suitable and usual adjusting means 25. The discharge-section 24 has no top, but mounted therein is an endless raddle 26, which is composed, as usual, of longitudinal belts 27 and spaced cross-slats 28. Raddle 26 is passed around a suitable driving-roll 27' and also around suitable idlers 28 28, and is adapted to be driven in the direction indicated by the arrow by means of a sprocket-wheel 29, secured to the outer end of the roll 27. Journalled in a suitable bracket secured to section 17 is a shaft 30, which carries a gear 31 and a sprocket-wheel 32, the gear 31 meshing with ring 21. Passing around sprocket-wheels 29 and 32 and around an intermediate idler 33 is a chain 34. Idler 33 is carried by a bracket or arm secured to section 17 at such point that sprocket 29 may be swung about pivot 19 while at the same time maintaining a working connection with the chain 34.

In the form shown in Fig. 5 a guard 35, concentric with pivot 19, serves to span the gap between the end of the elbow and the raddle.

In operation straw will be delivered upward pneumatically through pipe 12 by the blast-fan (not shown) in the usual well-known manner and will be discharged pneumatically through the elbow-section 17 into the discharge-section 24, where the straw is blown against raddle 26 and is by it carried forward through the discharge-section 24, while the air passes through the raddle between its slats.

I claim as my invention—

1. In a stacker of the type described, the combination, with a blower-tube to receive straw from a threshing-machine, of a trough-like discharge-section arranged to receive the straw from said tube, and an endless carrier

mounted in said trough-like discharge-section above the bottom, said endless carrier being such as to engage the straw and drive it through the section and such as to allow the
5 air to pass therethrough.

2. In a stacker of the type described, the combination, with a blower-tube to receive straw from a threshing-machine, of a turn-table surrounding the axis of the discharge
10 end of said tube, an elbow-tube section carried by the turn-table and arranged to receive material from the blower-tube, a trough-like discharge-section carried by the turn-table and hinged to cooperate with the elbow-section,
15 an endless perforated carrier forming the top of said trough-like discharge-section, and means for driving the turn-table and the endless carrier independently.

3. In a stacker of the type described, the
20 combination, with a blower-tube to receive straw from a threshing-machine, of a trough-like discharge-section arranged to receive the straw from said tube, and a mechanical carrier mounted in said trough-like discharge-
25 section above the bottom, said carrier being such as to engage the straw and drive it through the section and such as to allow the air to pass therethrough.

4. In a stacker, the combination, with a delivery-section and a discharge-section hinged
30 thereto, of a mechanical carrier forming part of the discharge-section, and means for driving said carrier consisting of a pair of sprocket-wheels, one carried by each section eccentric to the axis of the hinged section, an endless
35 chain passing over the same, and an intermediate stationary idler located at such point as to maintain a working connection of the chain with both of the sprocket-wheels, for the purpose set forth.
40

5. In a stacker of the type described, the combination, with a blower-tube to receive straw from a threshing-machine, of a trough-like discharge-section arranged to receive the
45 straw from said tube, and a mechanical carrier mounted in said trough-like discharge-section above the bottom, said carrier being such as to engage the stream of straw from the top and drive it through the section.

In witness whereof I have hereunto set my
50 hand and seal, at Indianapolis, Indiana, this 19th day of May, A. D. 1903.

FREDERICK L. SATTLEY, [L. s.]

Witnesses:

ARTHUR M. HOOD,
JAMES A. WALSH.