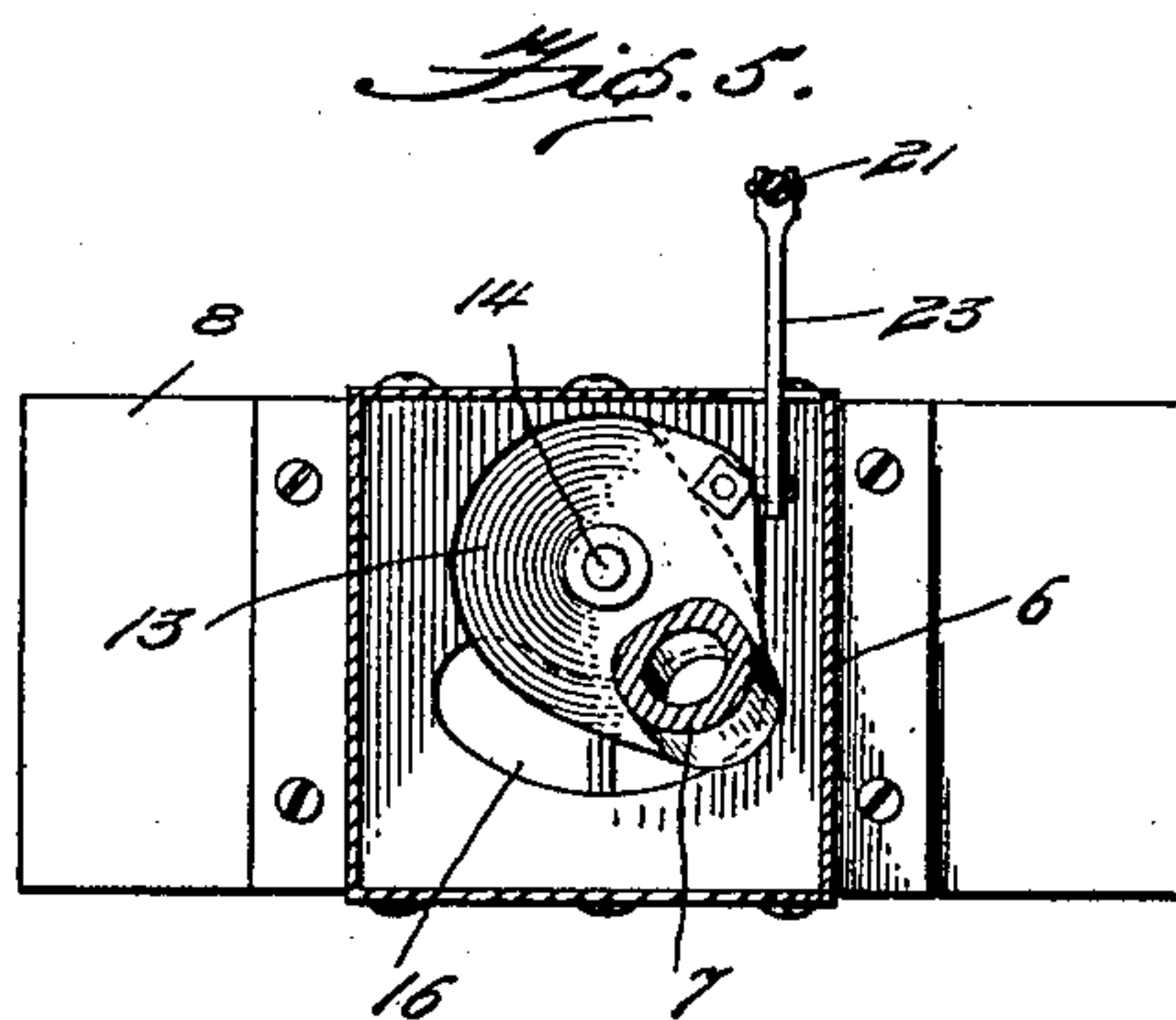
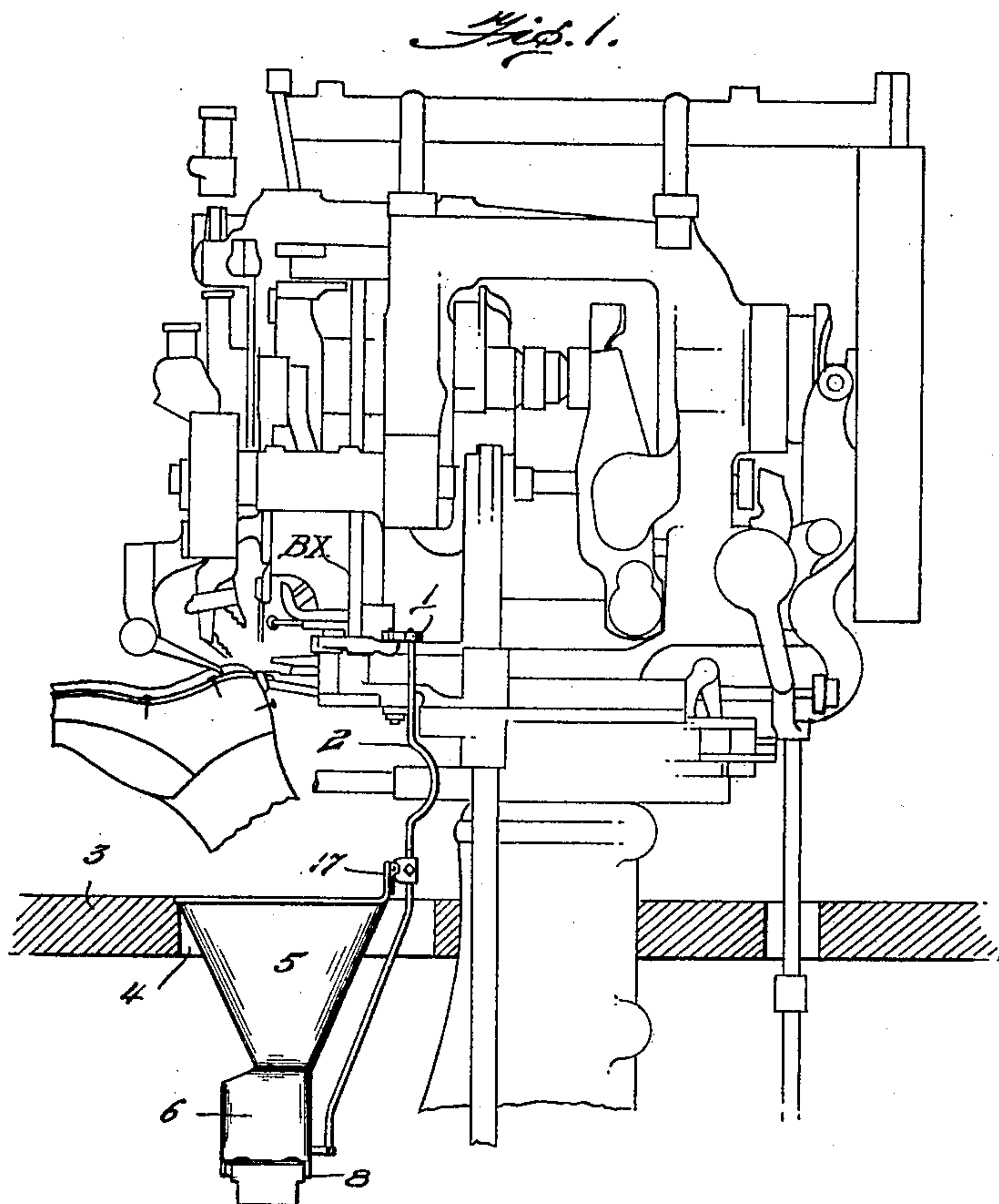


F. J. REDEMANN.
TACK SEPARATING DEVICE.
APPLICATION FILED JUNE 8, 1908.

919,636.

Patented Apr. 27, 1909.

3 SHEETS—SHEET 1.



Witnesses

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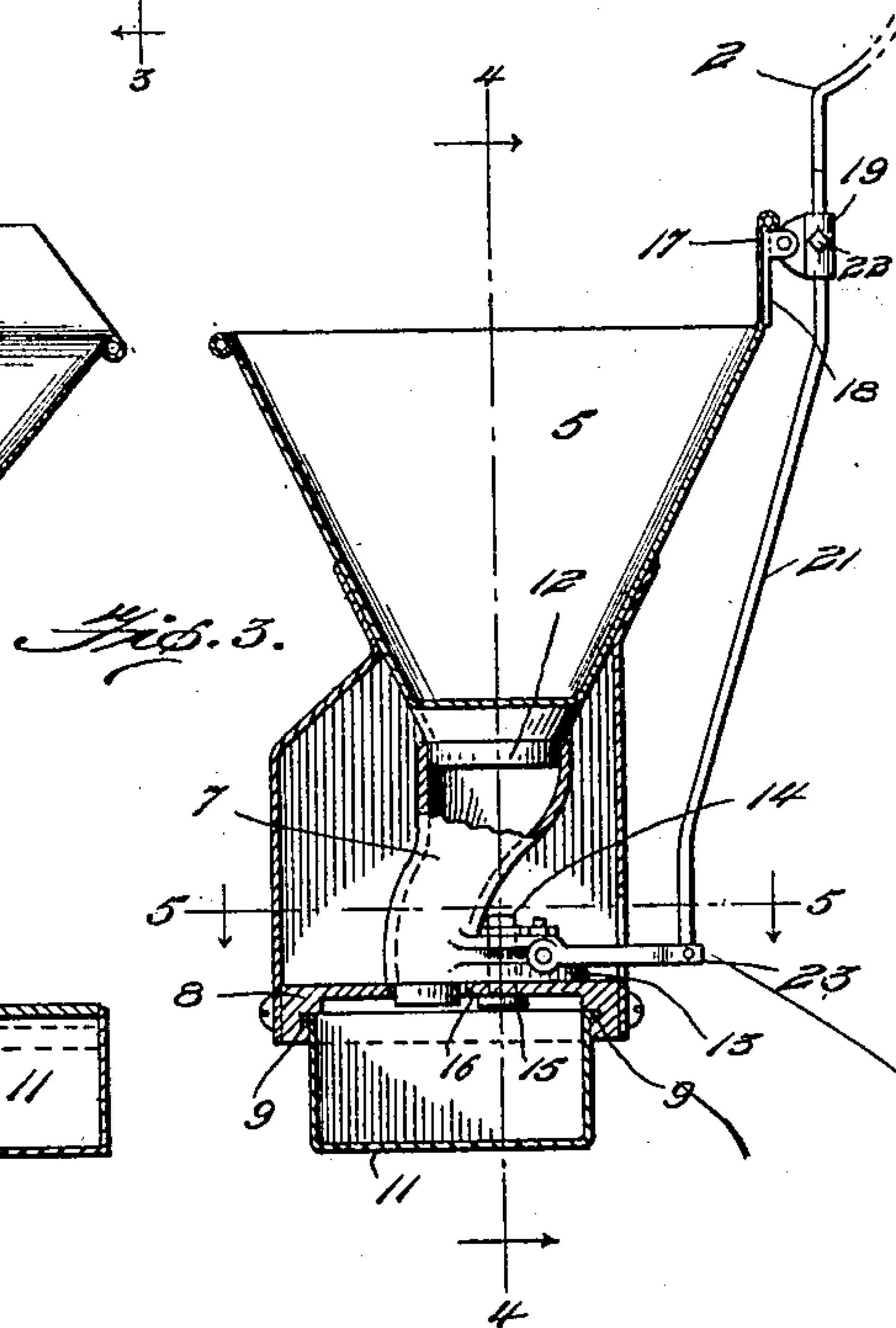
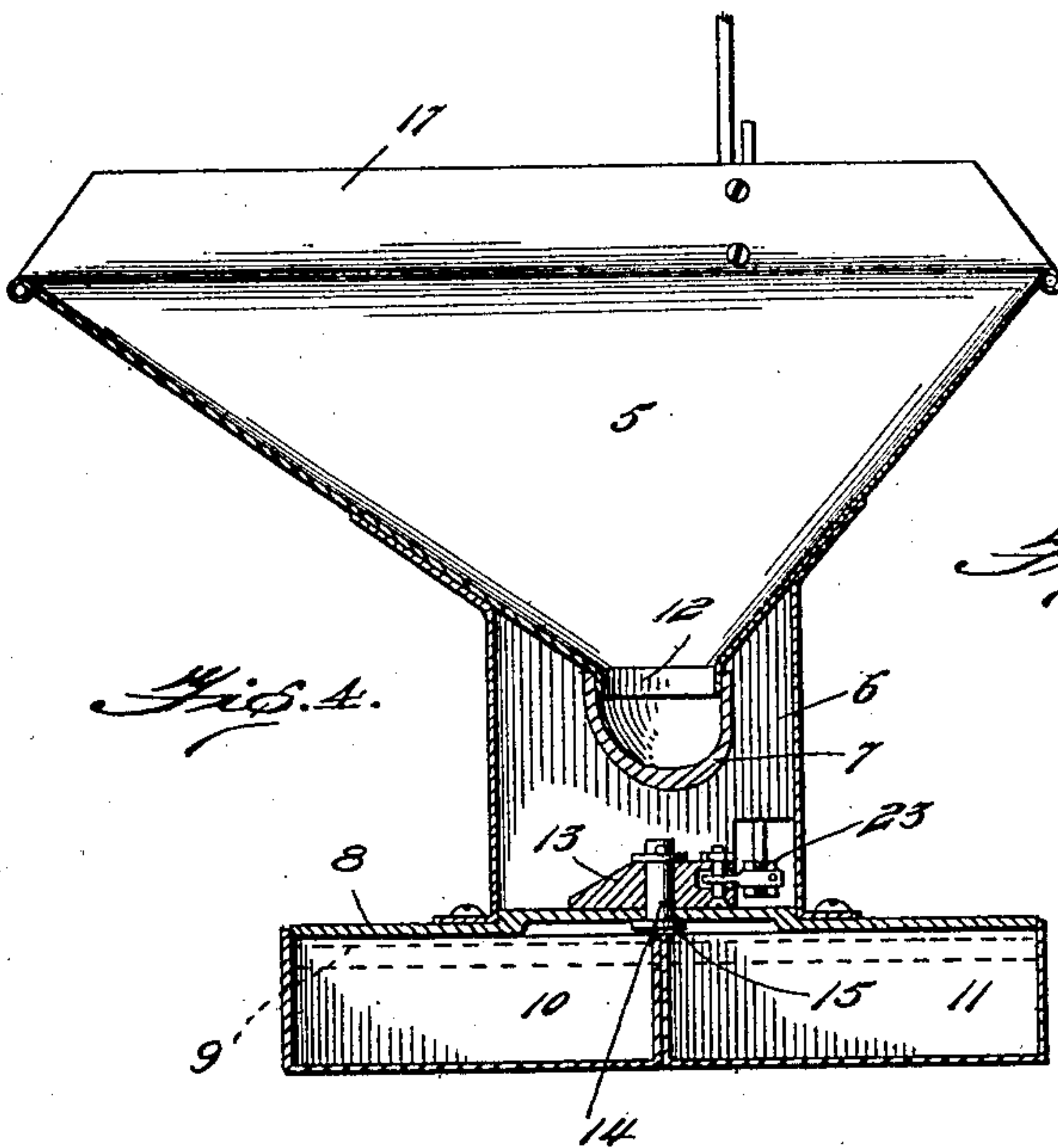
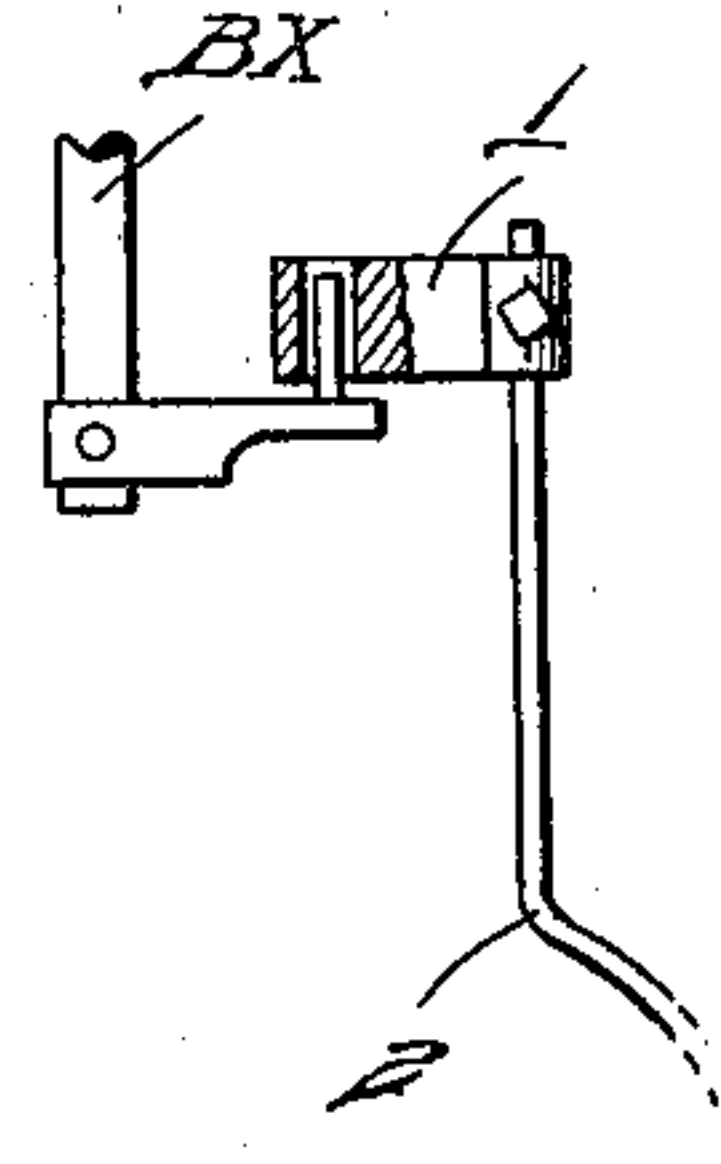
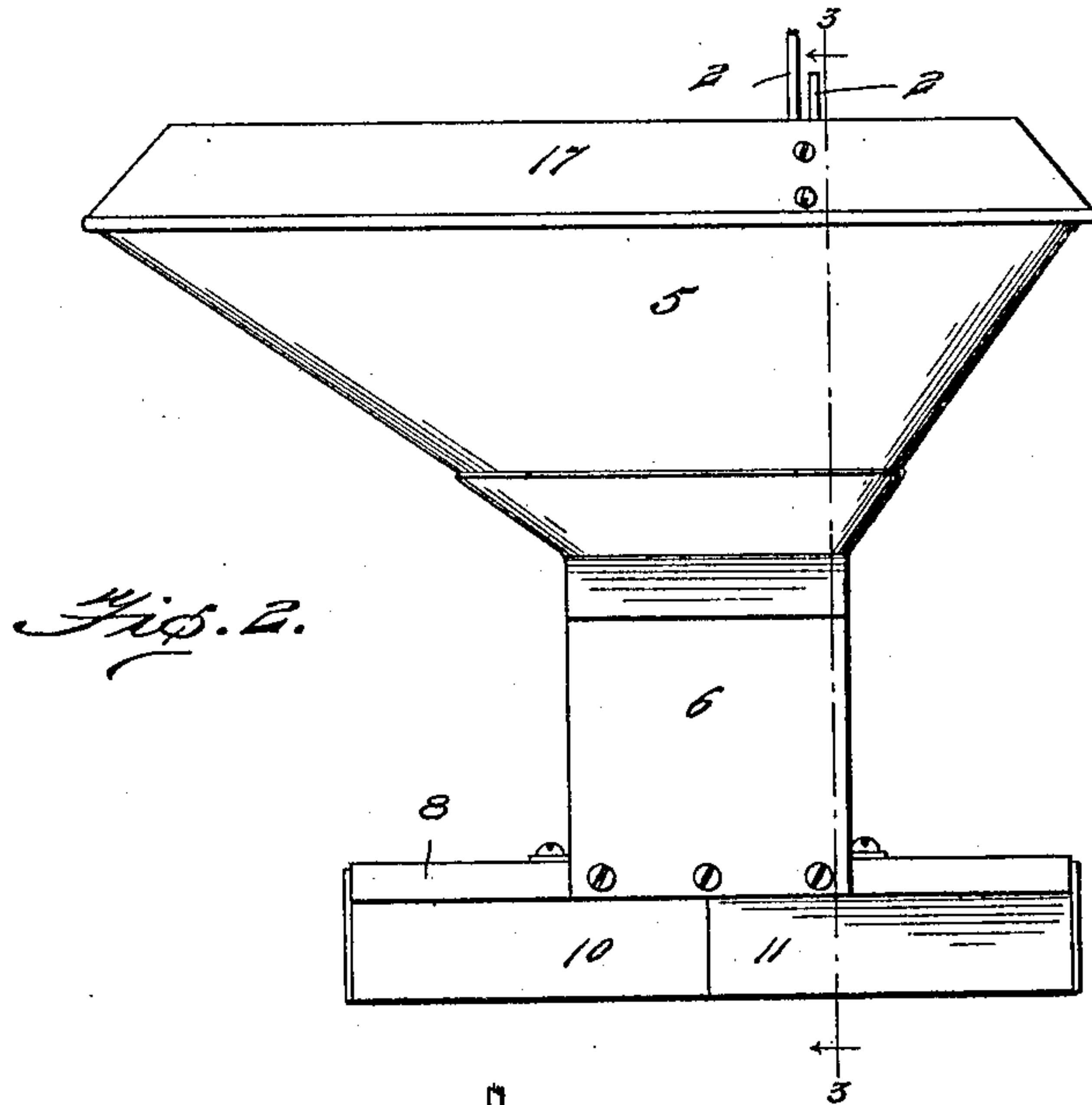
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3 SHEETS—SHEET 2.



Witnesses
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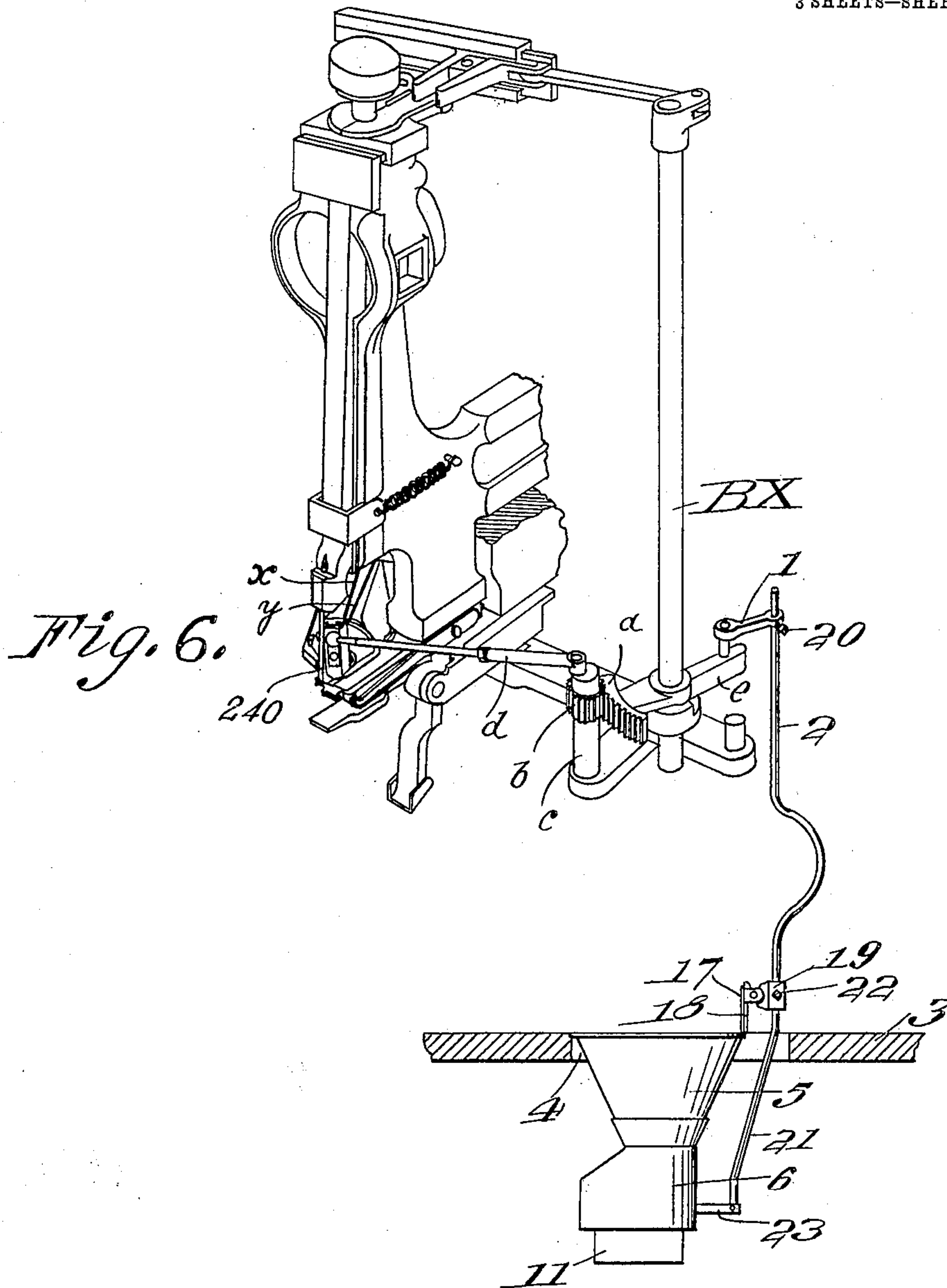
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3 SHEETS—SHEET 3.



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UNITED STATES PATENT OFFICE.

FREDERICK J. REDEMANN, OF WORCESTER, MASSACHUSETTS.

TACK-SEPARATING DEVICE.

No. 919,636.

Specification of Letters Patent.

Patented April 27, 1909.

Application filed June 8, 1908. Serial No. 437,435.

To all whom it may concern:

Be it known that I, FREDERICK J. REDEMANN, a citizen of the United States, residing at Worcester, in the county of Worcester and State of Massachusetts, have invented certain new and useful Improvements in Tack-Separating Devices; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to tack separating devices, and particularly to that type of device used in connection with lasting machines for separating the different sized tacks used in the lasting operation. In machines of this character the operator reverses the tack feed so as to change from long to short tacks, or vice versa, depending upon what part of the shoe he is working upon.

A diagrammatic representation in side elevation of the Ladd and McFeely machine shown in Patent No. 584,744 is shown with the attachment secured thereto. In this machine the tack delivered is simultaneously changed with the operation of the limiting mechanism of the tack driving bar. When the operator starts his machine the tacks are fed from either raceway one at a time upon each revolution of the machine, and when the shoe is in position they are driven thereinto. However, the operator has to remove the shoe from position possibly six or eight times (while he is lasting it), for one reason or another, and as it does not pay to stop the machine for these short intervals the tacks which are fed to the raceway during each removal are lost to the operator and to the company, for the reason that it is too expensive to sort them by hand.

The attachment I have invented obviates these difficulties, and broadly speaking consists in providing a hopper adapted to receive the tacks from the raceways and having a funnel located at its bottom which is shifted so as to change the tacks so as to properly distribute them as the tack feed is changed in the machine.

With these and other objects in view, the invention consists of certain novel features of construction, combination and arrangement of parts, as will be more fully described and

particularly pointed out in the appended claims.

In the accompanying drawings, Figure 1 is a side elevation shown diagrammatically of the Ladd and McFeely machine in Patent #584,744, Fig. 2 is a front elevation of the attachment removed from the work platform, Fig. 3 is a section on the line 3—3 of Fig. 2. Fig. 4 is a vertical section on the line 4—4 of Fig. 3, and Fig. 5 is a horizontal section on the line 5—5 of Fig. 3. Fig. 6 is a diagrammatic perspective of a portion of the Ladd and McFeely machine shown in Patent No. 584,744, with my attachment applied thereto.

In Fig. 1 the diagrammatic illustration of the Ladd and McFeely machine shows the shifter rod B^x of said machine having its hand lever provided with a vertical pivotal stud upon which is journaled the swivel arm 1 of the operating lever 2. In all of these machines a suitable platform or work bench 3, is provided which in this instance is apertured at 4, to receive the hopper or other suitable receiving receptacle 5. This hopper extends downwardly from its upper edges to a discharge chute 6, in which is located the revolving funnel 7, as will be hereinafter described. The chute 6 supports a bed plate 8, which is grooved at 9, to receive a pair of receptacles 10 and 11, which receive the tacks from the funnel 7. The hopper 5 has a discharge spout 12, which is surrounded by the upper enlarged end of the funnel so as to provide a pivotal point therefor. The opposite or lower end of the funnel is integrally formed with a laterally extending pivotal plate 13, through which passes the pivotal bolt 14, threaded into the bed plate 8 and secured thereto by a lock nut 15. The lower end of the funnel projects somewhat below the end of the pivotal plate 13 so as to enter an arcuate slot 16 formed in the bed plate and extending an equal distance upon either side of the center. The upper inner side of the hopper is raised as at 17, to support a pivotal clip 18, to which the rod clamp 19, is secured. This rod clamp has the opposite end of the operating lever 2 secured therein by a set screw, and one end of a connecting link 21, by a set screw 22. The opposite end of the connecting link 21 is loosely

pivoted to a pitman rod 23, which is pivotally engaged at its opposite end to the pivotal plate 13 upon which the funnel 7 is carried.

5 In the operation of the machine, when the operator works his shifter lever to change the size of the tacks the funnel 7 is shifted through the operating lever 2, the connecting link 21 and the pitman 23. All tacks of the
10 size now being used are fed to one or the other of the receptacles 10 and 11. When the operating lever is shifted again the funnel 7 is turned as before and the tacks now lost from the chute or raceway are fed to the op-
15 posite compartment. The inner edges of the receptacles 10 and 11 meet at a point centrally of the machine, so as to prevent the escape of any tacks passing from the track race-way. The funnel extends clean over
20 into the center of one compartment. It will thus be seen that the compartments 10 and 11 may be removed when full and their contents dumped into the separating tack receiving compartments of the tack machine
25 without further sorting of any character, and it will also be seen that with the hopper construction which I have described and will hereinafter claim, there will be no clogging of the machine. As shown in Fig. 6 the shifter
30 rod or shaft is provided with a segmental gear *a* upon its lower end adapted to mesh with the pinion *b* mounted upon the stub shaft *c* which carries at its end an eccentrically connected rod or link *d* having a ball and socket con-
35 nection at its opposite end with the delivery block 240. This delivery block is actuated through the above mechanism by the handle *e* rigidly connected to the segment. The delivery block has a passage extending there-
40 through which is adapted to receive the tacks from the different raceways *x* and *y* when placed in position to take tacks of different sizes by the connecting rod or link *d*. Each raceway holds a different kind of tacks
45 and as the aperture therein is placed in register with the raceways it will be seen tacks of this particular size will be fed to the driving mechanism and in order to limit or control their feed there is provided as is usual,
50 a rotating separator which permits only the feed of a single tack at one time.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the
55 invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion and the minor details of construction may be resorted to without departing from the prin-
60 ciple or sacrificing any of the advantages of this invention as defined in the appended claims.

Having thus described my invention,

what I claim and desire to secure by Letters Patent is:—

1. In combination, a nailing machine having a reciprocating tack deliverer for delivering different sized tacks to a driving mechanism, an attachment comprising a tack assorter and means controlled in the
65 operation of the tack deliverer for operating the attachment. 70

2. In combination, a nailing machine, having a shifter lever adapted to control the tack feed to the driving mechanism of the
75 machine, and means controlled by said lever for assorting the tacks lost by said machine.

3. In combination, a nailing machine having a plurality of tack raceways and driving mechanism, means to control the tacks from
80 said tack raceways to the driving mechanism of the machine, and means controlled thereby for assorting tacks lost by the raceways.

4. In combination, a nailing machine having a reciprocating tack deliverer, a pair of receptacles, a distributing device adapted to be alternatively connected to said recep-
85 tacles, and means controlled by the deliverer controlling means for operating said dis- 90 tributing device.

5. In combination, a nailing machine having a plurality of tack raceways, a deliverer therefor, means to control the position there-
95 of to the hammer mechanism, of an assorting attachment attached to said machine and comprising a hopper, a funnel revolubly mounted in said hopper, a pair of separated receptacles, means for diverting said funnel
100 whereby its discharge nozzle may be swung into either receptacle, and a connection between the diverting means and the deliverer shifter.

6. In combination, a nailing machine having a plurality of tack raceways, a delivering device therefor and means to control the
105 position thereof, of an attachment for said machine comprising a hopper, a base plate carried by said hopper, a pair of receptacles carried by said base plate, a pivotal plate
110 mounted upon said base plate, a funnel carried by said pivotal plate and having its mouth arranged to receive material from said hopper, a pitman rod connected to said
115 pivotal plate, and a series of levers connecting said pitman and the tack delivering device controlling means.

7. In combination, a nailing machine having a double tack delivery to the driving mechanism of the machine and means for
120 assorting the tacks lost by said machine, said means being controlled by the tack delivery.

8. In combination, a nailing machine having a double tack delivery, means to control
125 the tack delivery to the driving mechanism

of the machine, and a shiftable funnel controlled by said first mentioned means for assorting the tacks lost by said machine.

5 9. In combination, a nailing machine having instrumentalities to deliver and drive a plurality of different sized fastening devices and means controlled by said instrumentalities for assorting the different sized tacks lost by said machine.

10 10. In combination, a nailing machine having a shifting tack block, means to operate said tack feed block for controlling the

feed of the tacks to the driving mechanism, and means controlling said first mentioned means for assorting the tacks lost by said 15 machine.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

FREDERICK J. REDEMANN.

Witnesses:

OTTO E. NYSTEDT,
A. H. JESSEE.