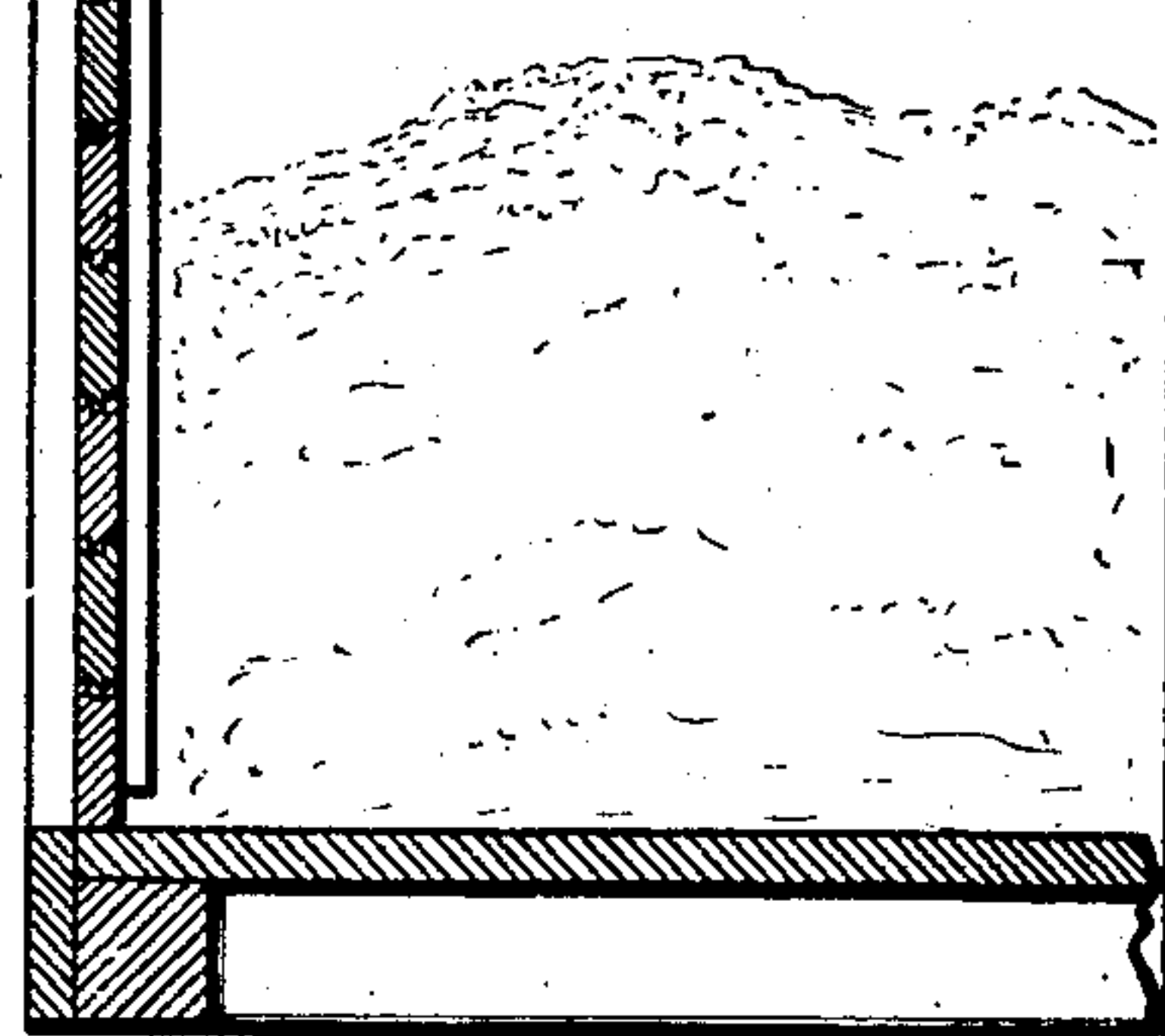
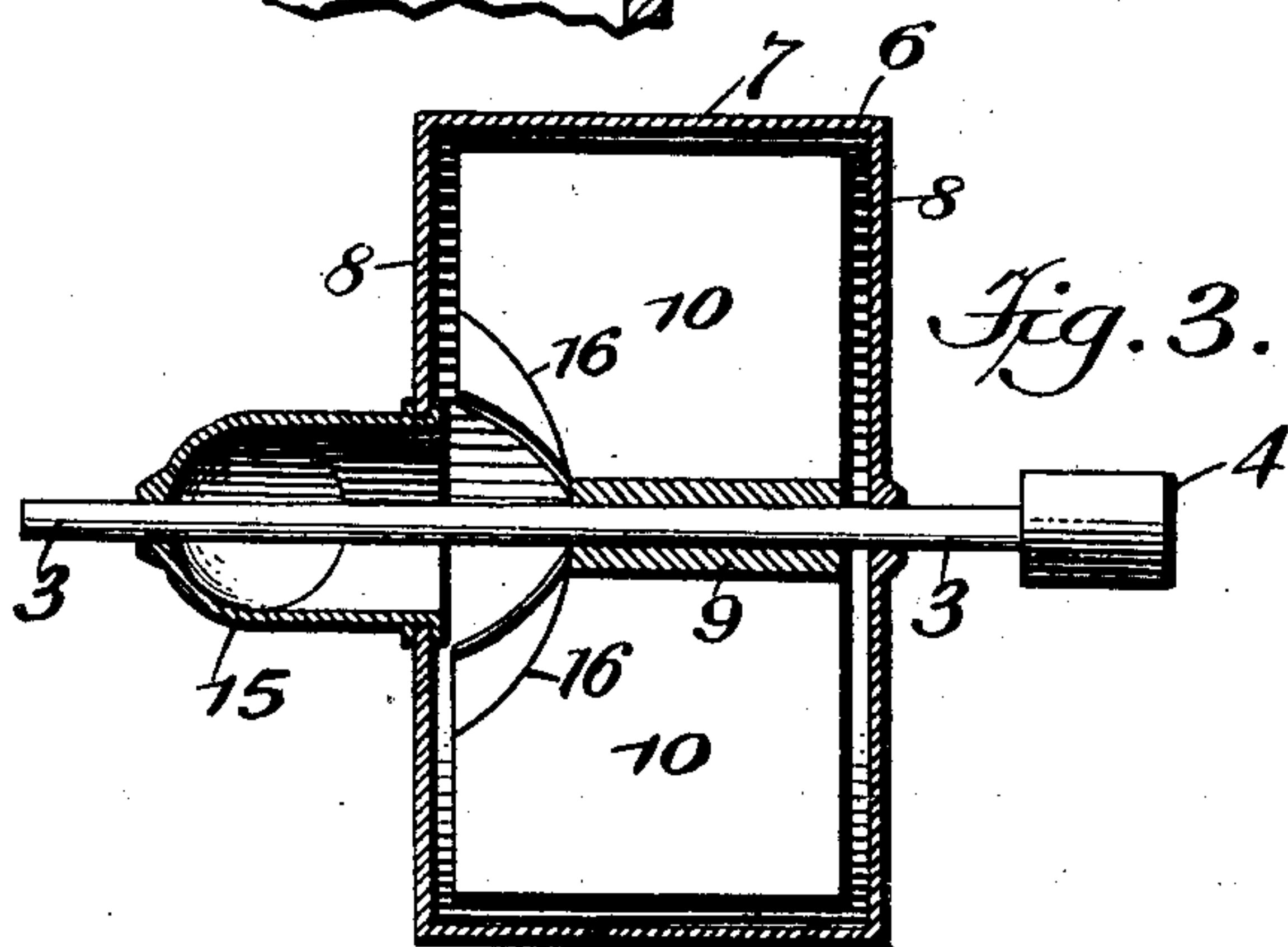
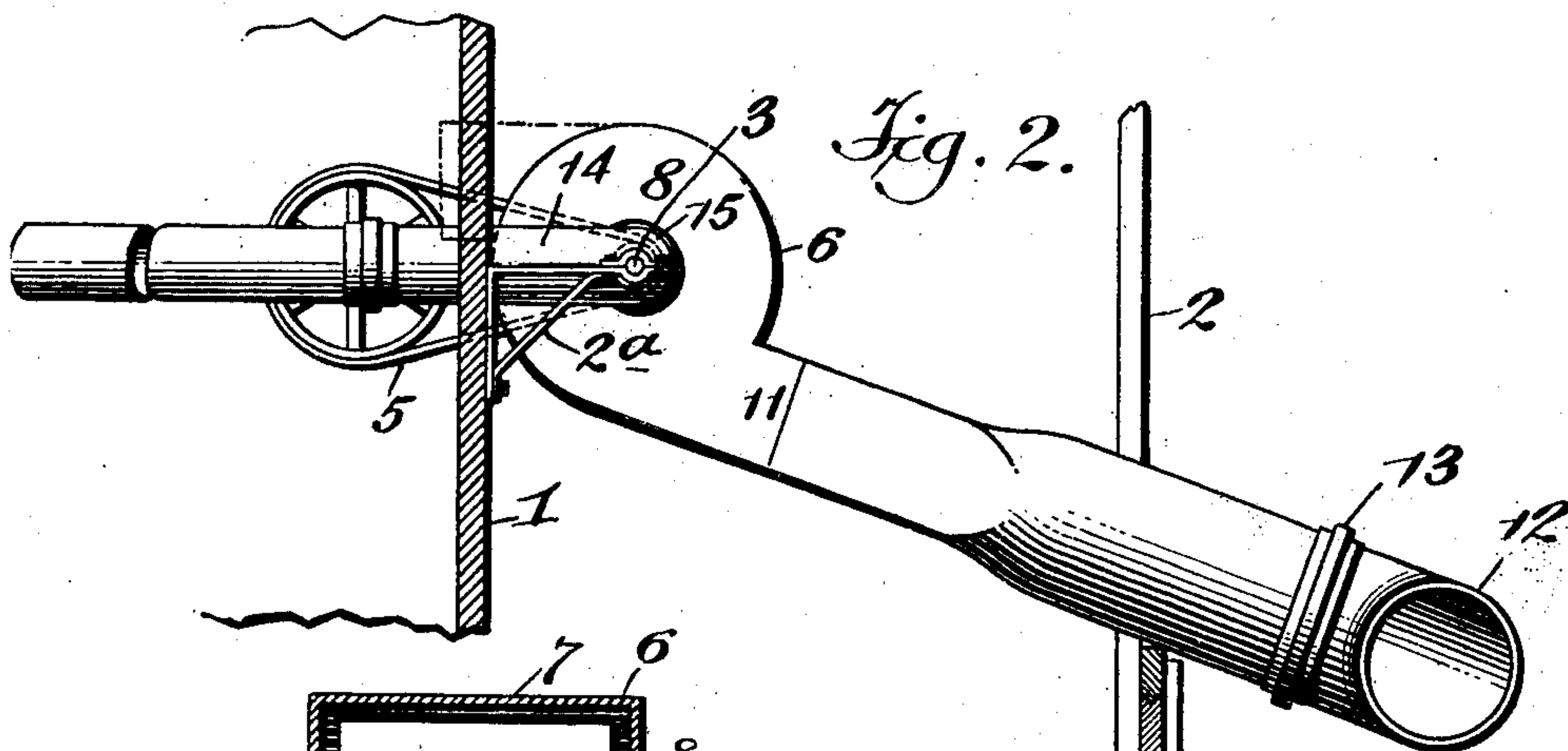
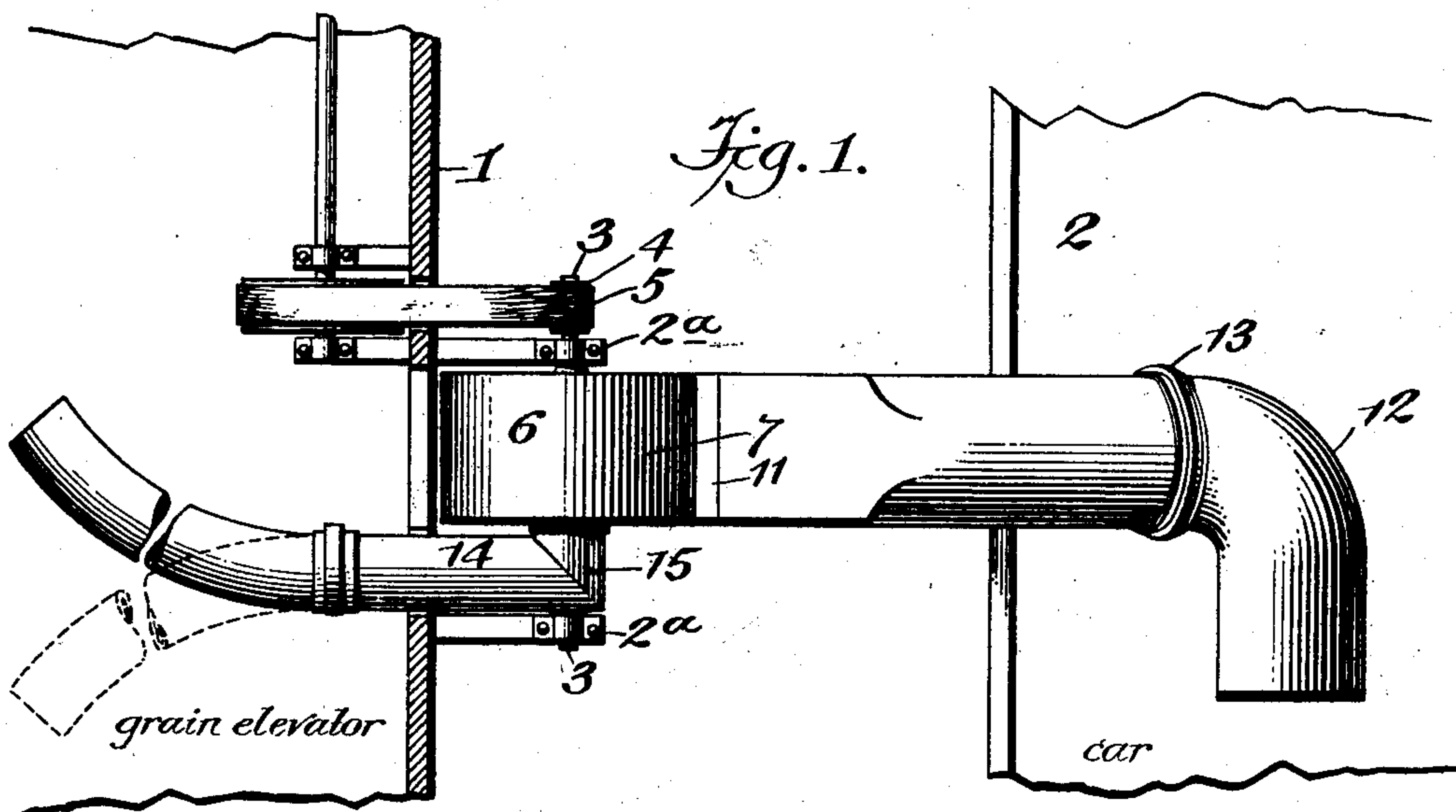


D. H. CLAUDON.

CAR LOADER.

APPLICATION FILED APR. 20, 1903.

NO MODEL.



Witnesses

E. J. Stewart
G. J. Elmore

by

D. H. Claudon, Inventor,

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UNITED STATES PATENT OFFICE.

DANIEL H. CLAUDON, OF MEADOWS, ILLINOIS.

CAR-LOADER.

SPECIFICATION forming part of Letters Patent No. 735,858, dated August 11, 1903.

Application filed April 20, 1903. Serial No. 153,547. (No model.)

To all whom it may concern:

Be it known that I, DANIEL H. CLAUDON, a citizen of the United States, residing at Meadows, in the county of McLean and State of Illinois, have invented a new and useful Car-Loader, of which the following is a specification.

My invention relates to car-loaders, and has for its objects to produce a device of this character which will be simple of construction, efficient in operation, one which may be manufactured at a minimum cost, and one which will be readily adjustable for directing grain to either end of a car being loaded or back into the elevator.

To these ends the invention comprises the novel details of construction and combination of parts more fully hereinafter described.

In the accompanying drawings, Figure 1 is a top plan view illustrating my improved device attached to an elevator-building and a car being loaded, the top of the latter being removed. Fig. 2 is a side elevation of the device. Fig. 3 is a vertical transverse sectional view.

Referring to the drawings, 1 indicates the wall of an elevator-building, and 2 a grain-car. These parts are of the usual construction and constitute no part of my invention.

In accordance with my invention I attach in any suitable manner to the outer wall of the building brackets 2, provided with suitable bearings, in which a drive-shaft 3 is journaled for rotation, the shaft being provided with a belt-pulley 4, connected by a belt 5 with any suitable source of power for operating the shaft 3. This shaft extends centrally and transversely through a cylindrical fan-casing 6, which has an outer peripheral wall 7 and side walls 8. Fixed upon the shaft 3 for rotation therewith and within the casing 6 is a suitable hub or spider 9, to which is secured in any suitable manner radiating blades 10. There are preferably six of these blades; but it is to be understood that this number may be varied as desired. These blades, which are driven by shaft 3, act to discharge grain, which is delivered to the casing in the manner hereinafter described, from the same through a tangential discharge opening or spout 11, associated in any suitable manner with the peripheral wall

7 of the casing, to a discharge-pipe 12, which is connected to the spout and which in turn delivers the grain to the car or back to the elevator, as hereinafter explained. In this connection it may be noted that the casing 6 is rotatable upon the shaft 3 and that the discharge-pipe 12 is provided at its point of attachment to the discharge-spout 11 with a swivel-joint 13, whereby the casing may be adjusted upon the shaft 3 to bring the discharge-opening 11 to the proper height relative to the car, and the discharge-pipe 12 may then be adjusted for delivering grain to either end of the car, or if it is desired to run the grain from the elevator-bins through the device and thence back to the bins for the purpose of cleaning the latter the casing and discharge-pipe may be readily adjusted for so returning grain to the elevator by turning the casing on its pivot to the dotted position, as illustrated in Fig. 2.

The grain is conducted from the elevator to the casing by means of a suitable pipe or conduit 14, provided at its lower end with an elbow 15, which is connected to and communicates with the casing centrally through the side wall 8 thereof. The inner end of the elbow at the point of juncture with the casing is connected to the wall 8 by a swivel-joint, and the shaft 3 extends loosely through the outer wall of the elbow. Thus the pipe 14 may be readily adjusted relative to the casing as circumstances may require, and in this connection it is to be noted that owing to the conduit communicating with the casing at its axial center the blades 10 act equally upon the grain received into the casing for discharging the same therefrom. It is further to be noted in this connection that the blades 10 are cut away, as at 16, at a point immediately opposite the point of communication of the delivery-pipe 14 with the casing in order that the grain coming from the former may properly enter the latter before falling under the influence of the blade.

From the foregoing it will be seen that I produce a simple and efficient mechanism which is admirably adapted for the attainment of the ends in view and one which in practice may be readily adjusted to meet the various contingencies which may arise, and in attaining these ends it is to be understood

that I do not limit myself to the precise details herein shown and described, inasmuch as minor changes may be made therein without departing from the spirit of my invention.

5 Having thus described my invention, what I claim is—

1. In a device of the class described, the combination with a drive-shaft, of a casing rotatably mounted thereon and provided with
10 a discharge-opening, means for delivering grain to the casing, a fan operable by the drive-shaft for discharging the grain from the casing through the discharge-opening, and a distributor-pipe pivotally associated
15 with the discharge-opening.

2. In a device of the class described, the combination with a drive-shaft, of a casing rotatably mounted thereon and provided with a discharge-opening, a conduit pivotally con-
20 nected with the casing for delivering grain thereto, a fan operable by the drive-shaft for discharging the grain from the casing through

the discharge-opening, and a distributor-pipe pivotally associated with the discharge-opening.

3. In a device of the class described, the combination with a drive-shaft, of a casing rotatably mounted thereon and provided with a discharge-opening, a conduit pivotally connected with the casing for delivering grain
30 thereto, a fan operable by the drive-shaft for discharging the grain from the casing through the discharge-opening, and a distributor-pipe pivotally associated with the discharge-opening, the blades of the fan being cut away at
35 the point of communication of the conduit with the casing for the purpose described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

DANIEL H. CLAUDON.

Witnesses:

S. M. EWING,

D. N. CLAUDON.