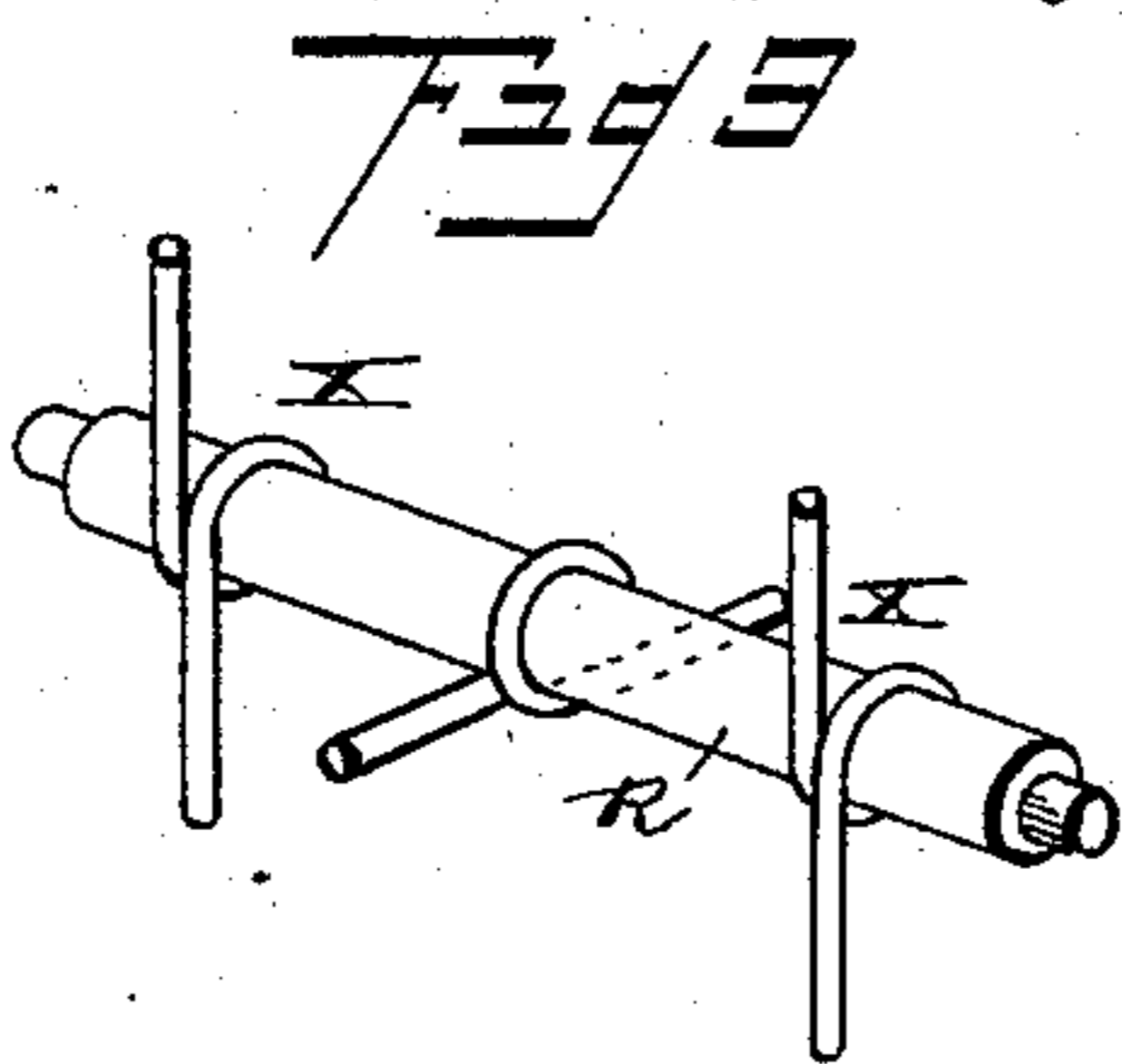
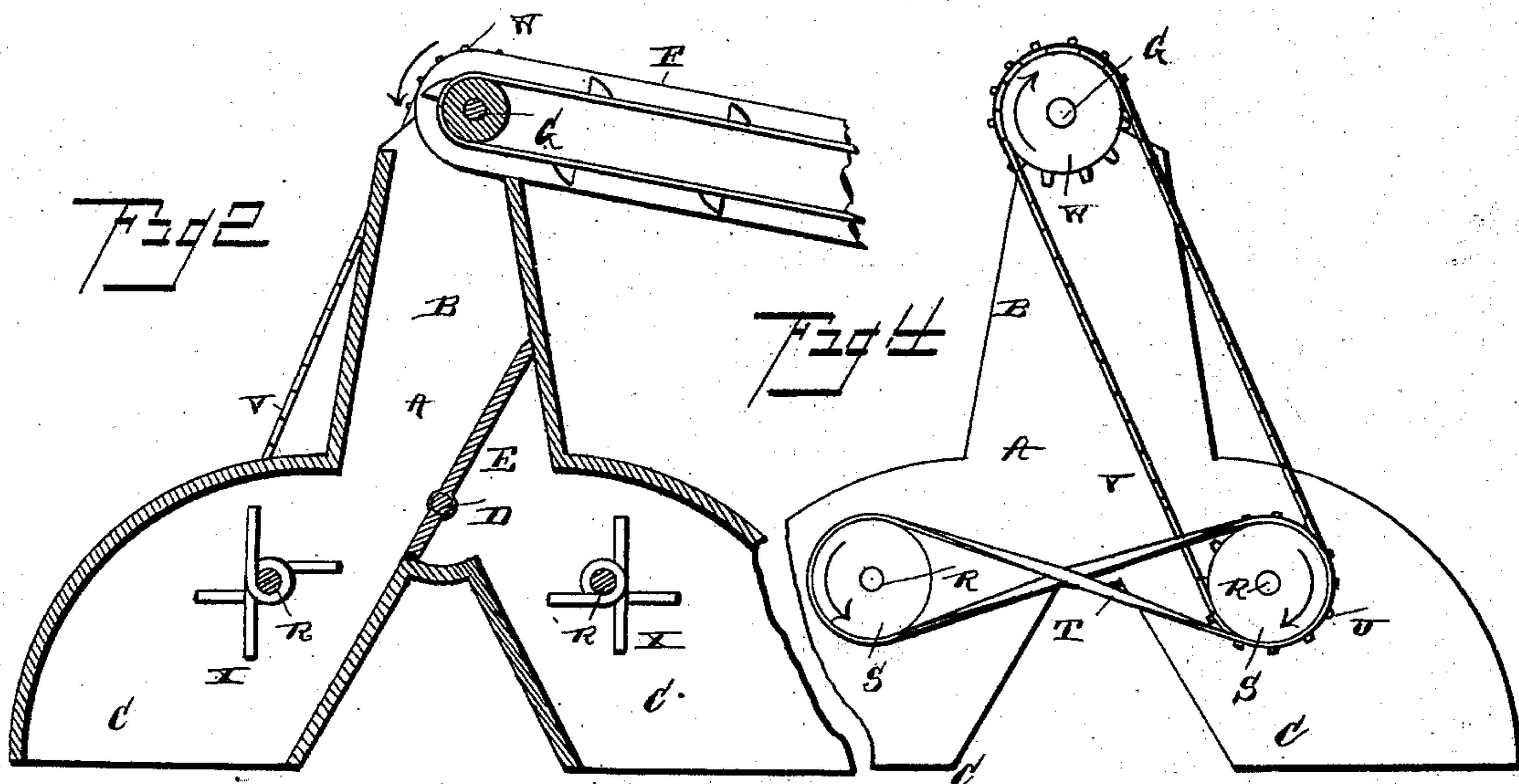
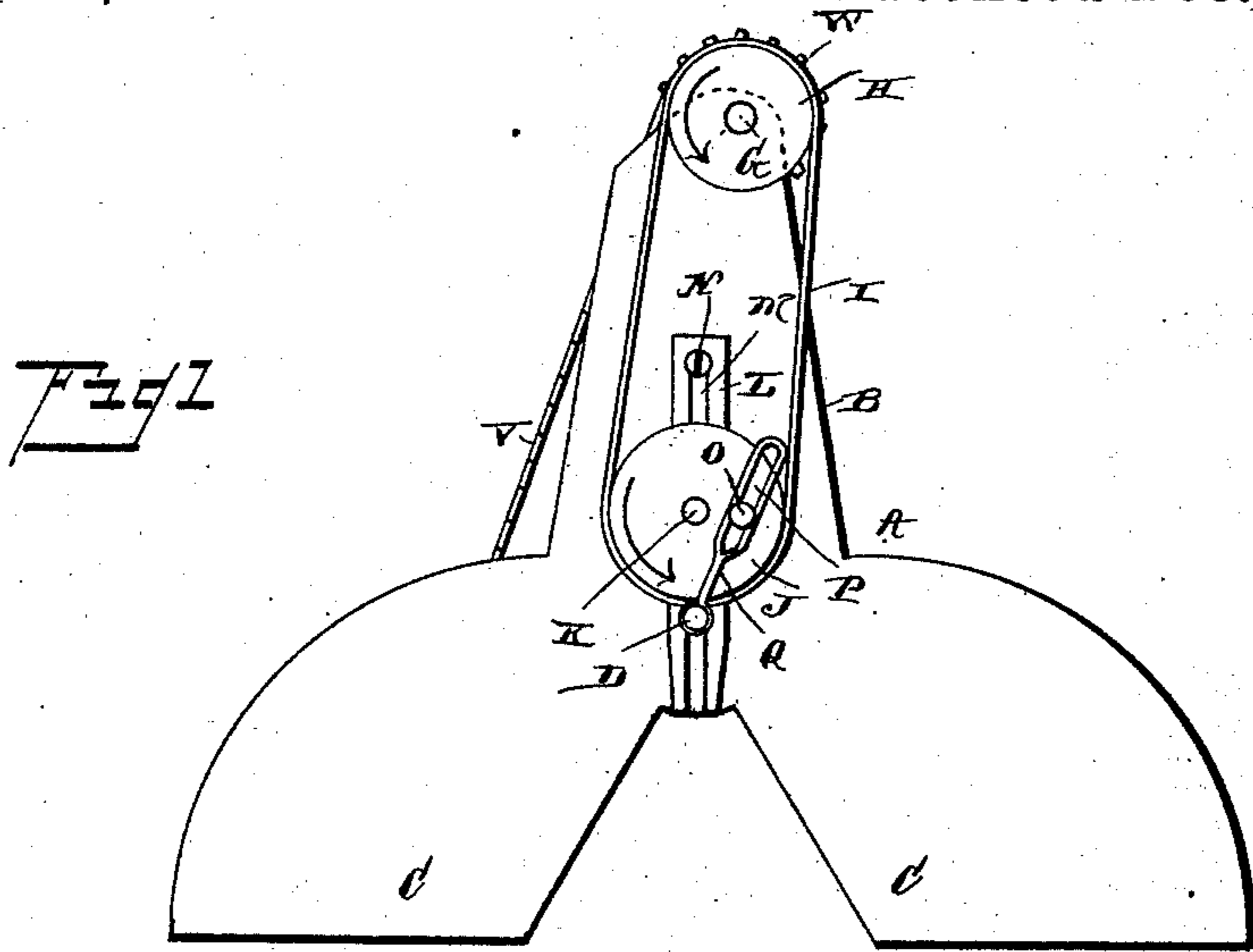


(No Model.)

J. L. WILLIAMS.
DISTRIBUTER FOR COTTON GIN FEEDERS.

No. 416,883.

Patented Dec. 10, 1889.



Witnesses

John Smiric
Wm. Bagger

Inventor

James L. Williams

By his Attorneys,

C. A. Snow & Co.

UNITED STATES PATENT OFFICE.

JAMES LEONHARD WILLIAMS, OF PILOT POINT, TEXAS.

DISTRIBUTER FOR COTTON-GIN FEEDERS.

SPECIFICATION forming part of Letters Patent No. 416,883, dated December 10, 1889.

Application filed May 15, 1889. Serial No. 310,900. (No model.)

To all whom it may concern:

Be it known that I, JAMES LEONHARD WILLIAMS, a citizen of the United States, residing at Pilot Point, in the county of Denton and State of Texas, have invented a new and useful Distributer for Cotton-Gin Feeders, of which the following is a specification.

This invention relates to devices for distributing seed-cotton to gin-feeders; and it has for its object to provide a device of this class which shall distribute the cotton evenly and regularly to the gin-feeders and which may be applied to supply two gin-feeders alternately.

The invention consists in the improved construction of a casing and operating mechanism for controlling and regulating the passage of the cotton to the feeders, as will be hereinafter fully described, and particularly pointed out in the claims.

In the drawings, Figure 1 is a side view of my improved cotton-distributer. Fig. 2 is a longitudinal vertical sectional view of the same and of a portion of the elevator by means of which the seed-cotton is supplied to the distributer. Fig. 3 is a detail view of one of the fans or knockers. Fig. 4 is a side view of the opposite side of the machine.

The same letters refer to the same parts in all the figures of the drawings.

A designates a casing comprising an upper vertical portion B, from the lower end of which a pair of chutes C C diverge outwardly, as shown, the outer walls of said chutes being of an approximately segmental shape. Suitably mounted in the front and rear walls of the upper portion B of the casing, about centrally in the same, is a shaft D, upon which is mounted a valve E, the lower end of which will be in contact with the upper edge of the inner wall of either of the chutes C when the upper edge of said valve is in contact with the opposite outer wall of the upper compartment B of the casing.

F designates a belt elevator of ordinary construction, which is used for supplying the seed-cotton to the upper compartment B of my improved distributer. The shaft G, over which the upper ends of the belts of the elevator F run, extends through the front and rear walls of the casing A, and is provided with a pulley H, connected by a belt or band

I with a band-wheel J upon the rear end of a shaft K, which is journaled in a vertically-adjustable box L, having slots M to receive the screws or bolts N, by means of which the said box is mounted upon the rear wall of the casing. The band-wheel J is provided with a wrist-pin O, working in a slot P in a lever Q, extending upwardly from the shaft D. It will be seen that by this mechanism an oscillating motion will be imparted to the said shaft D and to the valve E mounted thereon, so that the said valve will be adjusted to connect the upper end of the casing alternately with one or the other of the chutes C.

Mounted in the front and rear walls of the chutes C, near the upper ends of the latter, are the shafts R R, the front ends of which are provided with band wheels or pulleys S S, connected by means of a crossed belt T. One of the said shafts is also provided with a sprocket-wheel U, connected by a chain V with a sprocket-wheel W upon the front end of the shaft G, from which a rotary motion will thus be imparted to the shafts R R. The latter are provided within the chutes C with rotary fans or knockers X X, which, by the mechanism herein described, will be rotated in an outward direction, which is indicated by arrows in the drawings hereto annexed. The material which comes in contact with the said fans or knockers will thus be thrown in an outward direction against the outer curved walls of the chutes and be caused to be distributed evenly at the lower ends of the latter.

In practice my improved distributer is to be attached to cotton-gin feeders of ordinary construction, which form no part of my invention, and which have not been illustrated in the drawings hereto annexed. The seed-cotton may be supplied to the distributer by means of the endless-belt elevator F, a portion of which has been shown in the drawings; but other means may be employed for feeding the distributer without departing from the spirit of my invention. When the belt elevator F is used, the machine may be driven from the shaft G; but when it is dispensed with the initial power may be applied to the distributer at any desired point.

When the machine is in operation, the oscillating valve E will be operated automati-

cally to convey the seed-cotton filled into the machine into the chutes C C alternately. At the same time the rotary fans or knockers at the upper ends of the said chutes will be continually operated to distribute the cotton over the entire surfaces of the gin-feeders to which the device is connected.

My improved distributing device is exceedingly simple in construction, and by its use all danger of the feed mechanism of the cotton-gins being clogged with cotton will be avoided.

Having thus described my invention, I claim—

1. In a distributor for cotton-gin feeders, the combination, with the casing having an upper vertical portion and chutes diverging from the lower end of the same, of an oscillating valve mounted in the said upper portion, the rotary fans or knockers mounted in the upper ends of said chutes, and mechanism for simultaneously operating said fans or knockers and valve, substantially as and for the purpose set forth.

2. The combination of the casing having the upper vertical compartment and the chutes diverging from the lower end of the same and provided with segmentally-curved outer walls, the oscillating valve arranged in said upper compartment and adapted to connect the upper edge of the inner wall of either of said chutes with the opposite outer wall of the upper compartment, the rotary fans or knockers mounted in the upper ends of said chutes, and mechanism for operating the said oscillating valve and the fans or knock-

ers, substantially as and for the purpose set forth.

3. The combination of the herein-described casing having the vertical upper compartment and the chutes diverging from the lower end of the same, the shaft mounted in said upper compartment, and having an oscillating valve, and provided at its rear end with an upwardly-extending slotted lever, a vertically-adjustable box having a shaft carrying a band-wheel provided with a wrist-pin working in said slotted lever, and mechanism for operating the said wheel, substantially as set forth.

4. In a distributor for cotton-gin feeders, the combination of the herein-described casing having an upper compartment and chutes diverging from the lower end of the same, a shaft mounted in the upper compartment and having an oscillating valve, the rotary fans or knockers mounted in the upper ends of the chutes, an elevator arranged to supply the seed-cotton to the upper end of the upper compartment of the casing, and mechanism, substantially as described, for simultaneously operating the oscillating valve-shaft and the rotary fans or knockers, as and for the purpose herein set forth.

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

JAMES LEONHARD WILLIAMS.

Witnesses:

A. J. MILLER,

J. W. BOWLING.