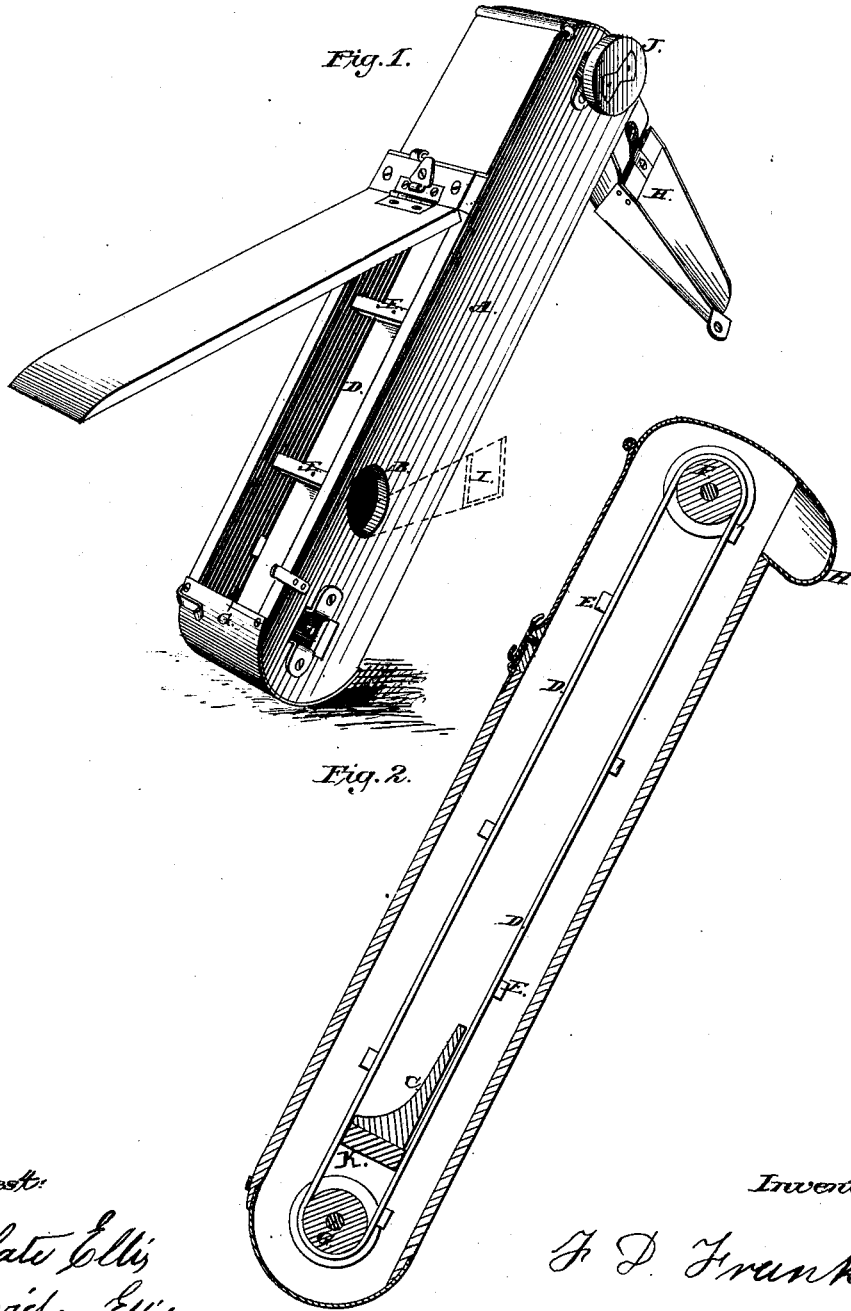


F. D. FRANKS.  
Grain-Conveyer.

No. 197,264.

Patented Nov. 20, 1877.



*Attest:*  
Clate Ellis  
David Ellis

*Inventor*  
F. D. Franks.

# UNITED STATES PATENT OFFICE.

FRANCIS D. FRANKS, OF PRAIRIE GROVE, IOWA.

## IMPROVEMENT IN GRAIN-CONVEYERS.

Specification forming part of Letters Patent No. **197,264**, dated November 20, 1877; application filed February 3, 1877.

*To all whom it may concern:*

Be it known that I, FRANCIS D. FRANKS, of Prairie Grove, in the county of Clarke and State of Iowa, have invented certain new and useful Improvements in Thrashing-Machine Elevators, of which the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing, and to the letters of reference marked thereon, which form a part of this specification, and in which—

Figure 1 is a perspective view of my invention, and Fig. 2 a vertical longitudinal section thereof.

Similar letters of reference occurring on the several figures indicate like parts.

My invention has for its object to furnish an improved construction, whereby the clogging of the elevators of thrashing-machines by wet or weedy grain is obviated; and it consists in the details of construction and general arrangement of parts, all as will be hereinafter more fully described, and pointed out in the claim.

Referring to the drawings, A represents an elongated rectangular box, having rounded ends, and provided with a circular opening, B, near the lower end upon the side, while the front part is provided with suitable doors, the lower end of the grain-dropping spout I fitting into the said opening B, as shown in dotted lines in Fig. 1. Within the box A, at each end, are arranged the pulleys F and G, working in suitable bearings, and around which passes the endless belt D, carrying the cross-strips E, for elevating the grain. A short distance above the lower pulley G is arranged a cross-bar, K, the ends of which are secured to the sides of the box A, said cross-bar being provided at its upper part with a centrally-ar-

ranged foot, C, which is of the same width as that of the belt D. At the upper part of the box A, and under the pulley F, is provided a suitable opening, having a distributing-spout, H, while an exterior pulley, J, is provided for operating the pulleys F and G, carrying the endless belt D.

It will be observed, in the operation of my invention, that the grain is conveyed through the spout I into the opening B in the side of the box, and striking against the sloping sides of the centrally-arranged foot C, falls down into the space on each side and below the belt D, from whence it is carried up to the distributing-spout H by the cross-pieces E on the said belt.

By this means it will be found almost impossible for the grain to drop down upon the inner surface of the belt to choke or clog the pulleys which drive the same, inasmuch as the cross-head K and inclined faces of the foot C distribute the falling grain upon each side of the belt, ready to be taken up to the distributing-spout H by the cross-pieces E on said belt.

Having thus described my invention, what I claim as new and useful is—

In a thrashing-machine elevator, the combination and arrangement of the pulleys F and G, endless belt D, having cross-pieces E, spouts H and I, cross-head K, and foot C, the several parts being arranged to operate substantially as and for the purpose specified.

In testimony that I claim the foregoing I have hereunto set my hand this 1st day of January, A. D. 1877.

F. D. FRANKS.

Witnesses:

CLATE ELLIS,  
DAVID ELLIS.