

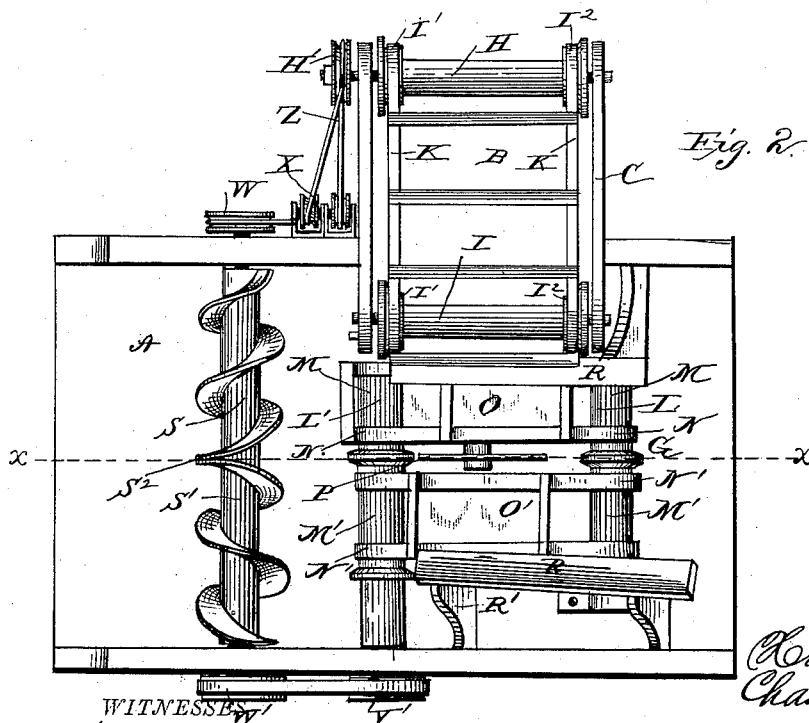
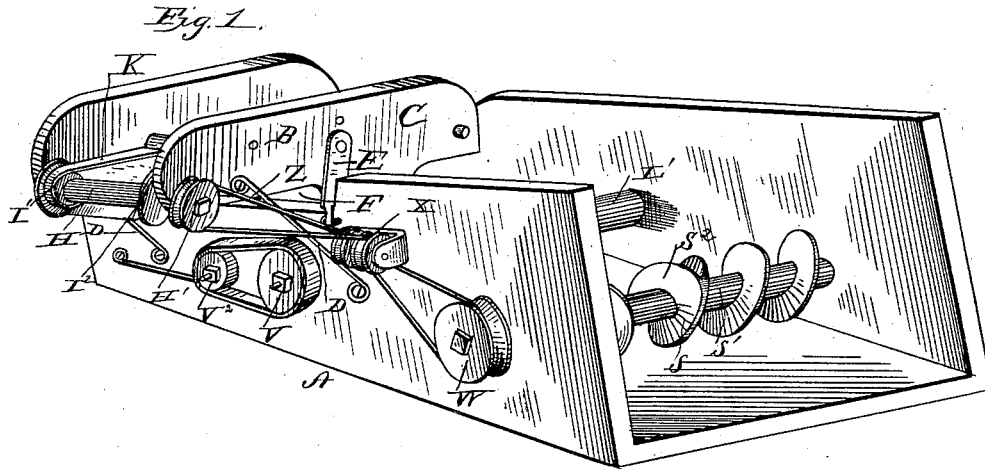
(No Model.)

2 Sheets—Sheet 1.

H. & C. FRANK.
THRASHING MACHINE.

No. 304,816.

Patented Sept. 9, 1884.



WITNESSES

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W. L. Harris

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Chas. Frank
INVENTORS.

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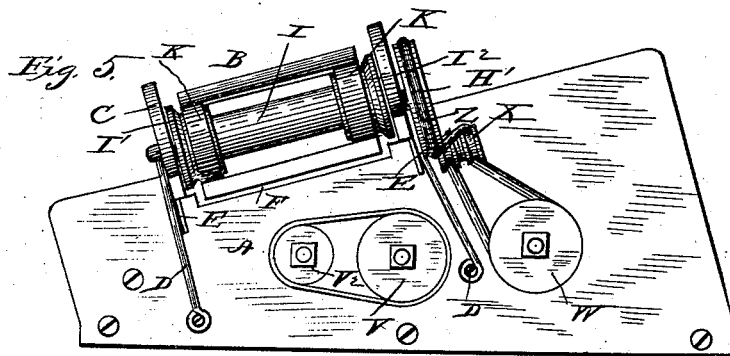
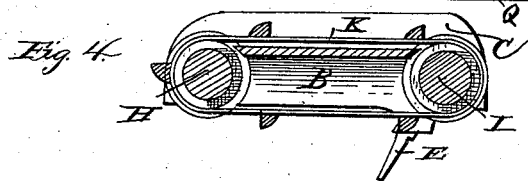
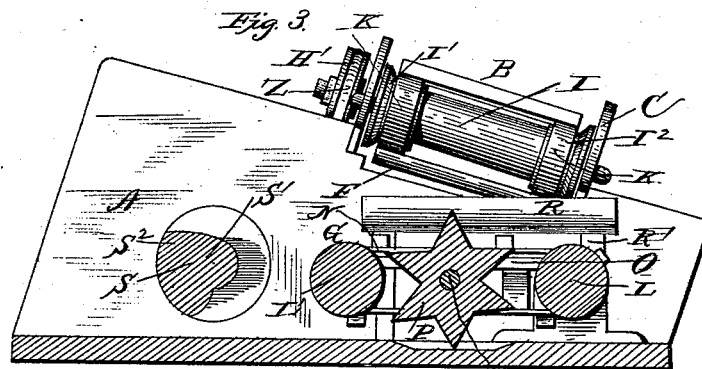
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UNITED STATES PATENT OFFICE.

HENRY FRANK AND CHARLES FRANK, OF BERRIEN SPRINGS, MICHIGAN.

THRASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 304,816, dated September 9, 1884.

Application filed May 1, 1884. (No model.)

To all whom it may concern:

Be it known that we, HENRY FRANK and CHARLES FRANK, citizens of the United States, residing at Berrien Springs, in the county of Berrien and State of Michigan, have invented a new and useful Band-Cutter and Feeder for Thrashing-Machines, of which the following is a specification, reference being had to the accompanying drawings.

10 This invention has relation to band-cutters and feeders for thrashing-machines; and it consists in the construction and novel arrangement of parts, as will be hereinafter fully described, and particularly pointed out in the claim.

15 Figure 1 is a view in perspective of a band-cutter and feeder for thrashing-machines embodying our improvements. Fig. 2 is a plan view. Fig. 3 is a vertical longitudinal sectional view on the line *xx* in Fig. 2. Fig. 4 is a longitudinal sectional view of the grain-table, and Fig. 5 is a side elevation.

Referring by letter to the accompanying drawings, A designates the frame-work of the machine in front of the cylinder.

25 B designates the feed-table, which consists of a frame, C, secured by hinged brace-rods D and pivoted legs E to one side of the machine, and resting in a recess, F, in the upper edge of one of the side walls of the frame of the machine, and projecting inwardly nearly to the band-cutter table G. The feed-table frame is provided with two shafts, H and I, journaled in the side rails of the frame, near opposite ends thereof, and carrying flanged spools I' I², over which an endless slat belt, K, runs, to carry the bundles from the feed-table to the band-cutter table G. The latter table consists of two shafts, L L', journaled in the side walls of the frame of the machine, and provided with double spools M M', carrying two endless slat belts, N N', over the two boards O O', between which boards and endless slat belts N N' the toothed cutter P revolves, being fixed to a shaft, Q. At each side of the band-cutter table is an inwardly-inclined bundle guard or fender, R, secured to upwardly and inwardly projecting inclined arms R', which are designed to keep the bundle on this table while the bands

are being cut, and to guide the grain to the spreader S in front of the band-cutter table.

The spreader S consists of a shaft, S', journaled in the side walls of the frame of the machine, and provided with a spirally-flanged spool or double screw, S², the spiral commencing at the center and running to opposite ends of the spool.

Instead of having double boards and double endless slat belts on the band-cutter table, a single board and single belt may be used, and the rotary cutter-blade may be placed between the band-cutter table and the spreader, as shown in Fig. 6.

The bottom of the frame of the machine, at the point where the mechanism before described is located, is inclined downwardly and forwardly, as are also the bundle-guides and band-cutter table.

The shaft H of the feed-table is provided with a pulley, H'. The shaft I' of the band-cutter table is provided with pulleys V and V', one on each end. The shaft Q of the toothed cutter P, which traverses only part way across the frame, is provided at its projecting end, under the feeder-table, with a small pulley, V². The spreader is provided at each end with a pulley, one being marked W and the other W'. A double pulley, X, is secured to the side wall of the frame nearly over the pulley W. The pulley V is connected by a belt to the pulley V². The pulley H' is connected by a belt, Z, passing over the double idle-pulley X, to the pulley W on the spreader-shaft, and the pulleys V' and W' are also connected by a belt. The feeding and band-cutting mechanisms are driven by a suitable belt connected to them in the usual manner.

This machine will save the labor of two men, and performs the most dangerous part of the work. It is cheap, simple in construction, and is not likely to get out of order.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent of the United States, is—

The herein-described band-cutter and feeder, comprising a suitable frame, the inclined band-cutter table composed of the endless slat belts, the double boards and double spools

on the shafts of said band-cutter table, the rotary toothed cutter between the double boards and slat belts, the bundle-guides at the sides of the table, the feed-table, hinged brace-
5 rods, the pivoted legs, and the double screw spreader in front of the cutter-table, substantially as specified.

In testimony that we claim the foregoing as

our own we have hereto affixed our signatures in presence of two witnesses.

HENRY FRANK.
CHARLES FRANK.

Witnesses:

B. F. PENNELL,
JACOB BOON.