J. K. BURK.

Band-Cutting Feeders for Thrashing-Machines.

No. 196,287. Patented Oct. 23, 1877.

Fig. 1.

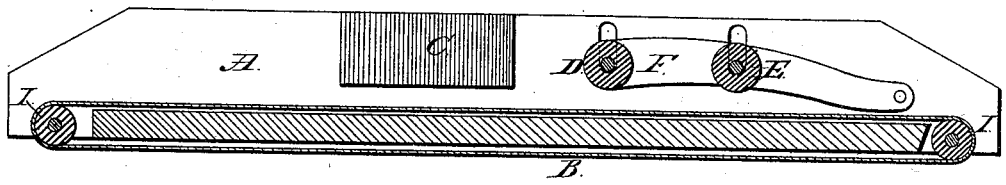

Fig. 2.

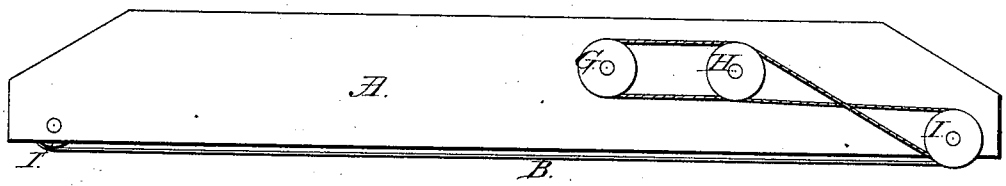

Fig. 3.

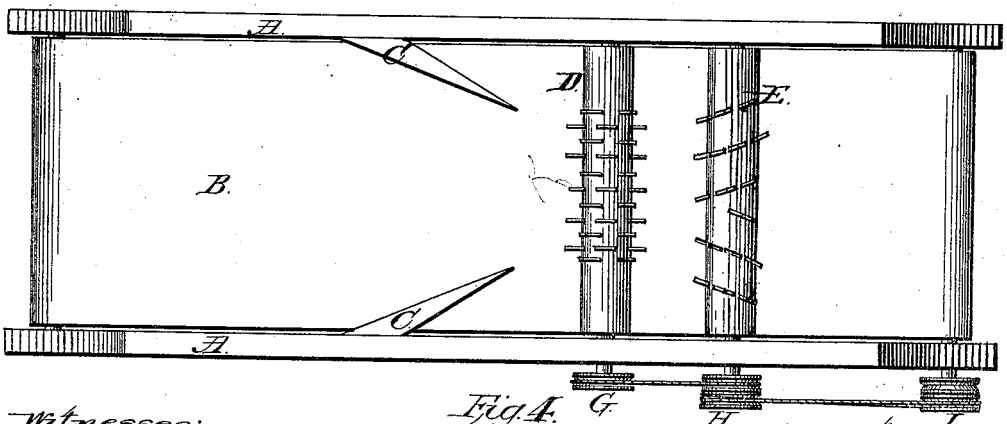

Fig. 4.

Witnesses:

Jno. W. Kenyon,

Jas. H. Graham.

Inventor: J.

Josiah K. Burk.

UNITED STATES PATENT OFFICE.

JOSIAH K. BURK, OF LORRAINE, MISSOURI.

IMPROVEMENT IN BAND-CUTTING FEEDERS FOR THRASHING-MACHINES.

Specification forming part of Letters Patent No. **196,287**, dated October 23, 1877; application filed May 7, 1877.

To all whom it may concern:

Be it known that I, JOSIAH K. BURK, of Lorraine, in the county of Harrison and State of Missouri, have invented a new and Improved Mode of Cutting Bands and Feeding Thrashing-Machines; and I do hereby declare that the following is a full and exact description of the same.

My invention will first be described fully, and afterward pointed out in the claims.

In accompanying drawings, Figure 1 represents a longitudinal sectional elevation of a feeding attachment embodying my improvement; Fig. 2, a side view; Fig. 3, a plan view; Fig. 4, a detailed view of one of the knives.

A represents the frame provided with side pieces as guards. In this frame, at either end thereof, are journaled rollers I I, upon which runs the endless belt carrying apron B. C are guards or deflectors, which direct the sheaf of grain toward the middle of the shaft D, on which the band-cutting knives K, of form shown in Fig. 4, are mounted, as shown, so as to insure the severing of the band.

In the rear of the shaft D is journaled the shaft E, on which are mounted scattering teeth or blade, which are set spirally in opposite directions from the middle, and are likewise inclined in the direction of the said spiral lines, so as to receive the loosened sheaves of grain as they come from the knives, and scatter and spread them over the width of the belt B before they are fed to the thrashing-cylinder.

The knife-bearing shaft and the shaft with the scattering-teeth are journaled at either end in arms F F, preferably pivoted inside the guards or side pieces, which are slotted to permit the journals of the shafts to pass through them, and to rise and fall in yielding to the grain passing under the said shafts.

G and H are pulleys on the ends of the shafts D and E. They are connected, as shown, with each other by a belt, pulley H being double, and connected, by a crossed belt, with a pulley on the end of the shaft at the roller I, at the inner or discharge end of the machine.

The knives are made in a curved or hooked form, as shown at K, Fig. 4, so as to give a shear-cut.

My feeder may be secured to any thrashing-machine by any suitable means, and driven by the thrashing-cylinder, or from any other suitable shaft.

I claim as my invention—

1. The combination, with the belt B and the rotary shaft carrying the knives, of the rotary shaft E, provided with teeth arranged and inclining spirally outward in either direction from the middle of said shaft, substantially as and for the purpose set forth.

2. The combination of the belt B with the shaft carrying the knives, and the shaft with the spirally-set teeth, the said shafts being journaled at either end in pivoted yielding arms F, substantially as and for the purpose herein set forth.

JOSIAH K. BURK.

Witnesses:

JNO. W. KENYON,

JAS. H. GRAHAM.