M. W. FREEMAN.

Band-Cutting Attachments for Thrashing-Machines.

No. 210,456. Patented Dec. 3, 1878.

Fig. 1

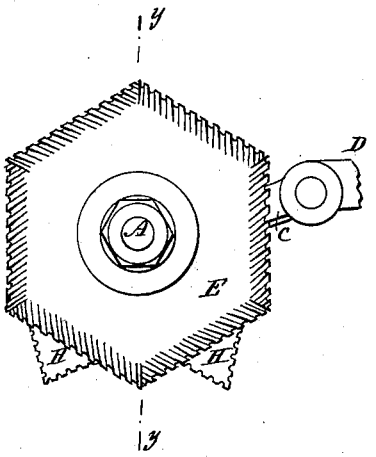


Fig 2

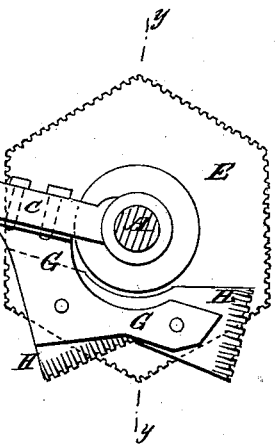
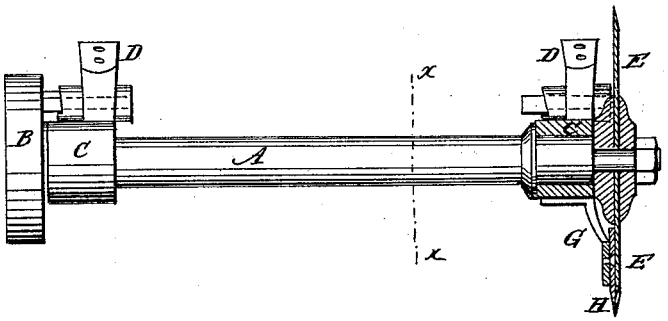


Fig. 3



WITNESSES:

C. Neveux

L. Sedgwick

INVENTOR:

M. W. Freeman

BY Munn & Co

ATTORNEYS.

UNITED STATES PATENT OFFICE.

MARVIN W. FREEMAN, OF BEATRICE, NEBRASKA.

IMPROVEMENT IN BAND-CUTTING ATTACHMENTS FOR THRASHING-MACHINES.

Specification forming part of Letters Patent No. **210,456**, dated December 3, 1878; application filed September 23, 1878.

To all whom it may concern:

Be it known that I, MARVIN W. FREEMAN, of Beatrice, in the county of Gage and State of Nebraska, have invented a new and useful Improvement in Band-Cutters, of which the following is a specification:

Figure 1 is an end view of my improved device. Fig. 2 is a cross-section of the same, taken through the line *x x*, Fig. 3. Fig. 3 is a front view of the same, partly in section, through the line *y y*, Figs. 1 and 2.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish an improved device for attachment to thrashing-machines for cutting the bands of bundles of grain to be fed to the thrasher, and which shall be simple in construction and convenient and effective in use, cutting straw, cord, and wire bands with equal facility and keeping itself sharp.

The invention consists in the combination of the shaft, the jointed bars, the rotating cutter, the stationary cutter, and the supporting-plate with each other, to adapt the device to be attached to the cap or cover of a thrashing-machine cylinder, as hereinafter fully described.

A is a shaft, to one end of which is attached a pulley, B, to receive a band from the cylinder-shaft, so that the said shaft A may be driven from and in the same direction as the said cylinder. The shaft A revolves in bearings in the outer ends of the bars C, the inner ends of which are hinged or jointed to the outer ends of the bars D. The bars D are designed to be secured by screws or bolts to the cap or cover of the cylinder.

The head of the pivoting-bolt of the joint of the bars C D, or the hand-nut screwed upon said bolt, is made in the form of a cross-head, and the surface against which it bears has inclines or notches formed in it, so that the joint may be locked by turning the said bolt or nut to fasten the shaft A in any required position. To the other end of the shaft A is attached a polygonal cutter, E.

To the lower side of the bar C is bolted a plate, G, which projects downward along the inner side of the cutter E, and to its inner side is bolted the stationary cutter H. The lower edge of the cutter H is recessed in angular form. The inner side of the cutter E works closely against the inner side of the cutter H, so that both cutters will be kept sharp by friction.

With this construction, when the feeder takes a bound bundle and places it above the feed-table of the thrasher, he raises it so as to bring the band in contact with the cutters E H, when the said cutters instantly cut the band and partially spread the grain, enabling the feeder to feed it more rapidly to the cylinder.

When not required for use, the joint of the bars C D enables the shaft A and its attachments to be turned up above the cap or cover of the cylinder, so as to be out of the way.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The combination of the shaft A, the bars C D, pivoted together by bolts provided with cross-heads, which engage with the inclines or notches formed on the bearing-surface of the said bars, the rotating polygonal cutter E, the stationary cutter H, having an angular lower edge, and the supporting-plate G, with each other, to adapt the device to be attached to the cap or cover of a thrashing-machine, substantially as and for the purpose described.

MARVIN W. FREEMAN.

Witnesses:
H. L. AYERS,
A. J. SHAW.