

(No Model.)

H. K. ANDREWS.
BAND CUTTER AND FEEDER.

No. 325,222.

Patented Aug. 25, 1885.

Fig. 1.

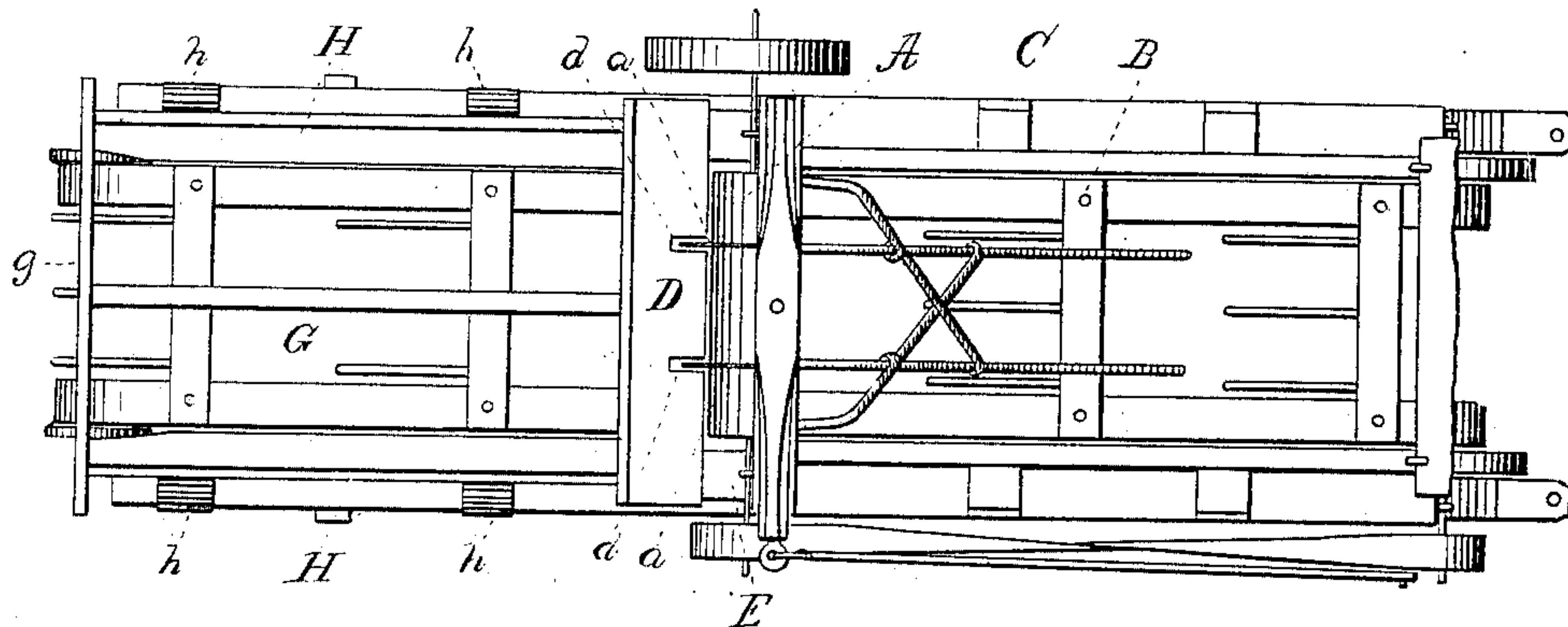


Fig. 2.

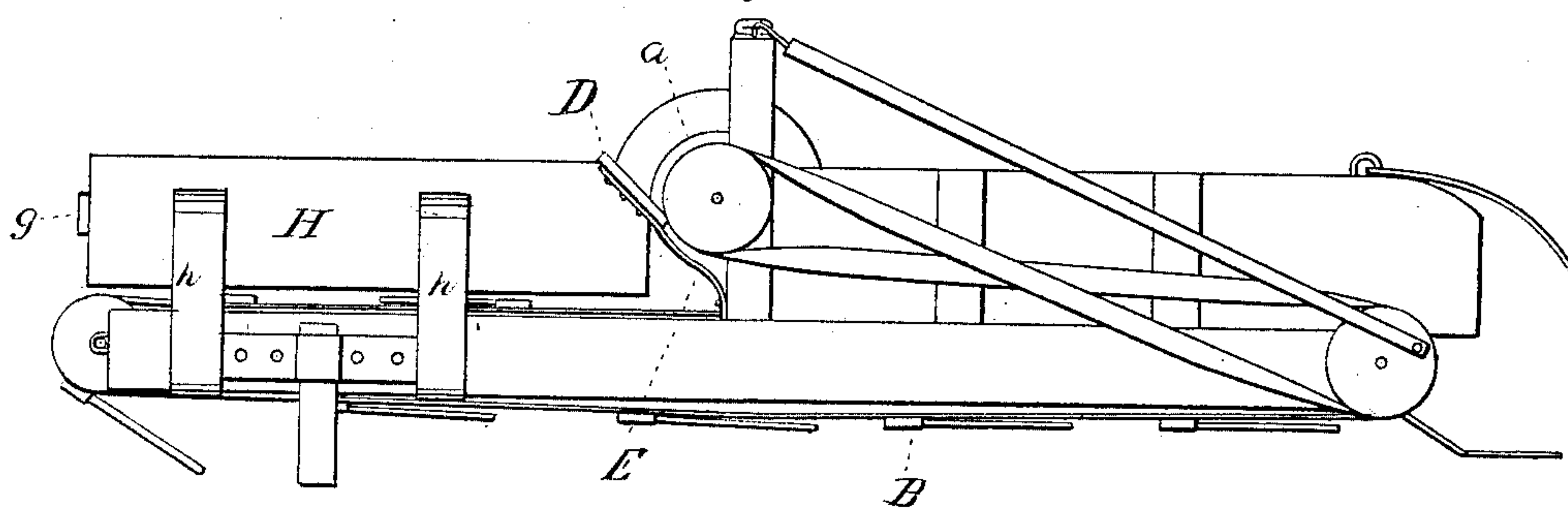
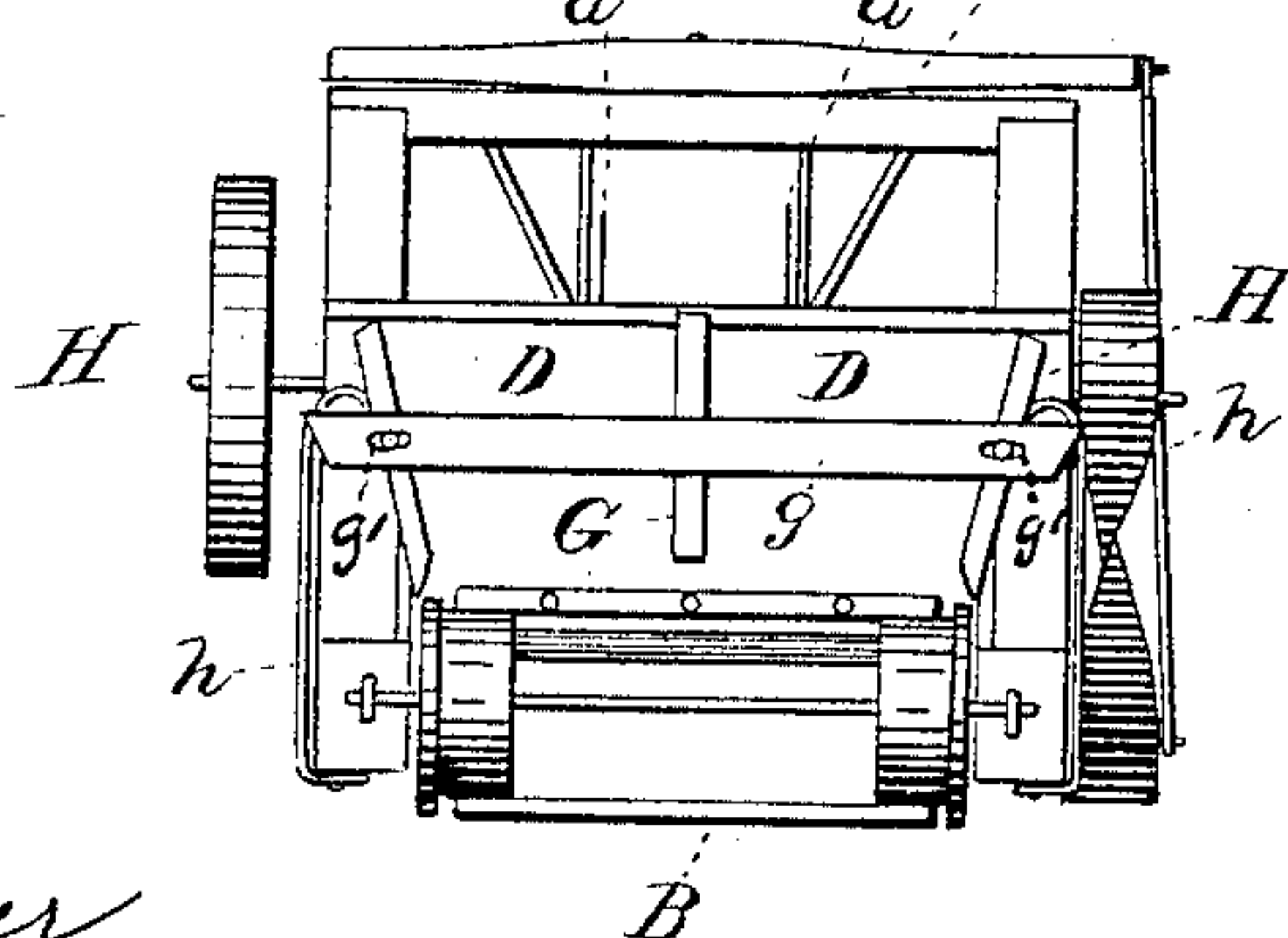


Fig. 3.



Witnesses.
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UNITED STATES PATENT OFFICE.

HENRY K. ANDREWS, OF EUREKA SPRINGS, ARKANSAS.

BAND CUTTER AND FEEDER.

SPECIFICATION forming part of Letters Patent No. 325,222, dated August 25, 1885.

Application filed April 9, 1884. (No model.)

To all whom it may concern:

Be it known that I, HENRY K. ANDREWS, a citizen of the United States, residing at Eureka Springs, in the county of Carroll and State of Arkansas, have invented certain new and useful Improvements in Band Cutters and Feeders; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to band cutters and feeders, and has for its object improvements in the class of such machines to which belongs my Patent No. 199,172 for a similar invention.

In the drawings, Figure 1 is a plan view; Fig. 2 is a side elevation, and Fig. 3 a front elevation, of a machine constructed according to my invention.

The form of framing, the knife-roller A, the carrying belt B, the scatterer C, and the gearing in the present case are substantially the same as the similar parts shown in my prior patent before referred to. It will be observed that roller A is provided with two cutters or disks, *a*. The guard-board D is arranged in front of the roller A, and is provided in its forward edge with slots *d d*, through which revolve the cutter-disks *a*, enabling the setting of said board near the roller, as will be readily seen. I support this guard-board on spring-bars E, secured at their lower ends to the main framing and at their upper ends to said guard-board. By this spring-support the guard-board is permitted to move forward toward the cutter-roller, and thus adjust itself to sheaves of different sizes, as will be understood. A central division-board, G, is secured at its forward end to the front side of the guard-board, and extends thence over the feed end to the machine. A cross-bar, *g*, is secured midway between its ends to the front end of board G, and is provided near its ends with slots *g'*. The side boards, H, are arranged on opposite sides of the board G, and are supported on a spring

or springs, *h*, mounted on the framing. The ends of these side boards next the guard-board are beveled or cut away correspondingly to the inclination of said board, as clearly shown in Fig. 2. Their opposite ends are secured to cross-bar *g* by pins or screws passed through slots *g'* so said boards may yield laterally to adjust themselves to different-sized sheaves. It will be seen that the side boards form a hopper, which is divided by the central partition into two compartments, each of which is adapted to receive a sheave, and by arranging the disk *a* midway each of the compartments the sheaves are directed accurately to the cutter-disk, so that the latter will cut midway and through the top of the sheave, and completely sever the band, as will be understood. I incline the side boards inward from their upper ends, so as to form a better hopper shape, as will be understood. By separating the sheaves in the receiving-hopper each one is directed more accurately to its respective cutter, and better results are secured, as will be understood.

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

1. The combination of the cutter-shaft, the guard-board arranged in front thereof, its supporting-springs, the partition-board secured at one end to the said guard-plate, a cross bar secured to the opposite end of the partition-board and slotted near its ends, the inclined side boards, their supporting-springs, and screws or pins connecting the cross-bar and side bars, all substantially as and for the purposes specified.

2. The combination, with the cutters, of the guard board and the springs having one end secured to the framing and their opposite ends secured to the guard-board, the latter being supported entirely by the springs, substantially as described.

In testimony whereof I have affixed my signature in presence of two witnesses.

HENRY K. ANDREWS.

Witnesses:

E. S. COX,
WM. R. DYE.