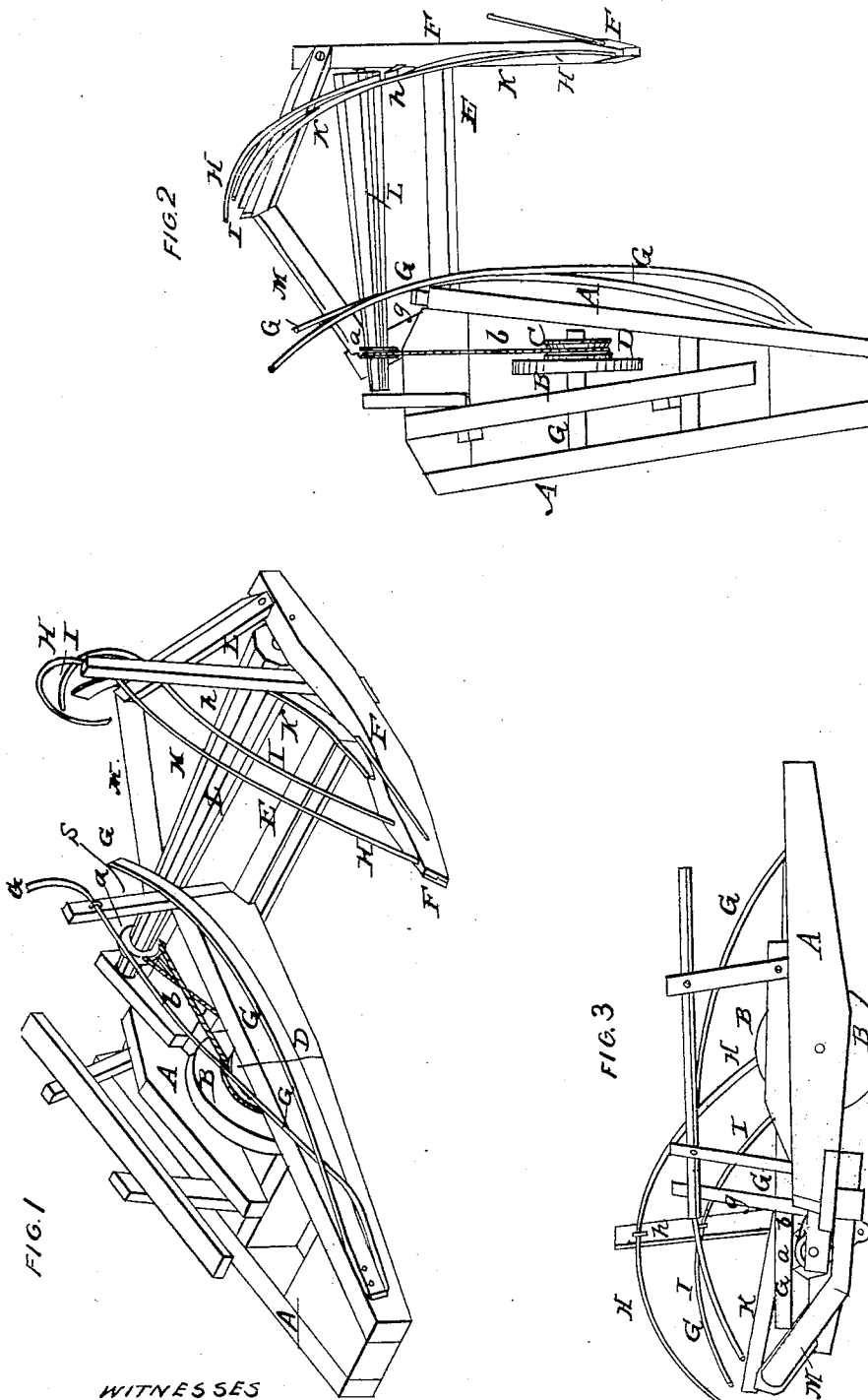


Hemp Harvester.

No. 28,061.

Patented May 1, 1860.



WITNESSES
Chair Milvorn
Whorl Leather

INVENTOR
S L Bruce

UNITED STATES PATENT OFFICE.

S. T. BRUCE, OF MARSHALL, MISSOURI.

IMPROVEMENT IN HARVESTERS.

Specification forming part of Letters Patent No. 28,061, dated May 1, 1860.

To all whom it may concern:

Be it known that I, S. T. BRUCE, of Marshall, Saline county, in the State of Missouri, have invented a new and useful Improvement in Hemp-Harvesters; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

My invention relates to certain improvements in hemp-harvesters; and it consists in certain improvements in the delivering apparatus, as will be hereinafter fully described.

To enable those skilled to make and use my invention, I will proceed to describe its construction and operation, referring by letters to the accompanying drawings, forming part of this specification, and in which—

Figure 1 represents a perspective view of my improved machine. Fig. 2 represents a top view of my machine, and Fig. 3 represents a side elevation of the same, similar letters denoting the same parts in different views.

A represents the main frame of the machine; B, the driving-wheel; C, the main shaft.

E is the finger bar, on which is arranged the cutting apparatus in the usual manner. (Not shown in the drawings.)

F is the divider.

G and G' are the two guides, which extend from the front end of inner frame-piece, A, to a vertical post, *g*, as seen at Figs. 1 and 2, and form a fender to sustain and support the hemp during the progress of the machine until the cutters come in contact with it.

H and I are two guards, extending from the forward end of the divider F upward past a post, *n*, to which they are secured, and K its lower guard, running on nearly same plane with H and I.

L is a polygonal tapered carrier-roll, which is supported in suitable bearings a short distance in the rear of the cutting apparatus, and which is rotated on its axis by a cord, *b*, passing from a pulley, D, over a pulley, *a*, on the roll.

M is an auxiliary carrier-roll, which is hung to turn freely on its axis. Said roll M is cylindrical, and is arranged obliquely to the roll and also to the horizontal plane of roll L. The relative arrangement of the rolls L and M with each other and with the machine will be best comprehended by reference to the drawings.

The guards G H and I K are so constructed and arranged as to form two fenders, both curving around toward the rear of the frame (see Fig. 2) to assist in the conveyance of the cut material from the cutting apparatus around to the rear of the machine and out of its track in the return-swath.

The roll L is made polygonal to more readily carry the cut material backward, and it is made tapering, so that the end near the divider-board will carry the material (which at this side has farther to travel) more rapidly, it being larger and consequently having a greater velocity.

It will be understood that by the combination of the tapering roll L, rotated immediately back of the cutting apparatus with the obliquely-set carrier-roll M, in connection with the guiding-fenders formed on either side of the cutting apparatus, as described, the cut material is effectually conveyed from the cutting apparatus round to the back of the frame of the machine and out of its track in cutting the next swath.

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

The combination of the polygonally-shaped tapering roll L, rotating immediately back of the cutting apparatus, with the obliquely-set cylindrical roll M and guards G G' and H, I, and K, the whole arranged and operating as specified, for the purpose set forth.

In testimony whereof I have hereunto set my hand and affixed my seal this 24th day of October, 1859.

S. T. BRUCE. [L. S.]

Witnesses:

JOHN P. STROTHER,
ADAIR WILSON.