

W. H. STUBBLEFIELD,
CUTTING MACHINE.
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946,569.

Patented Jan. 18, 1910.

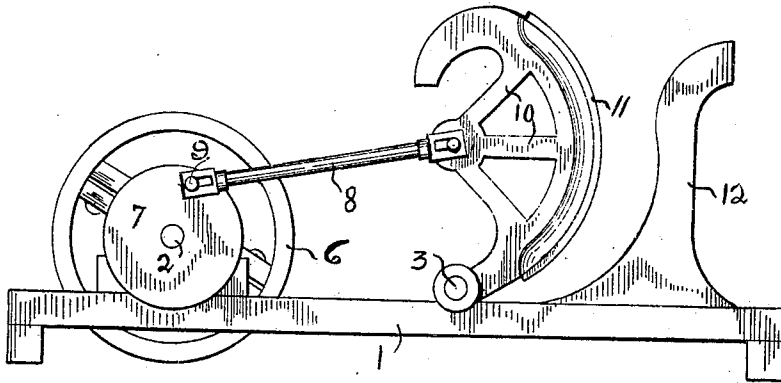


Fig 1--

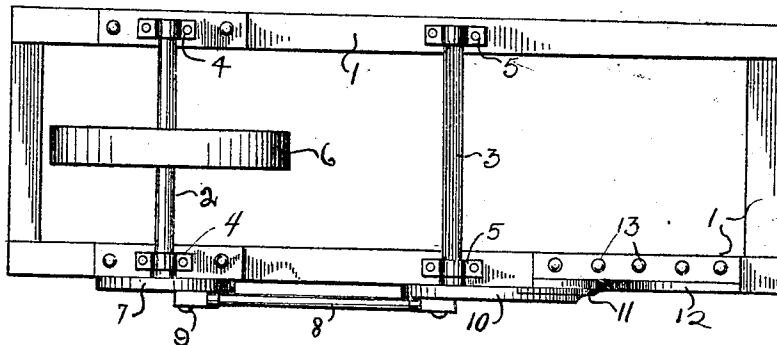


Fig 2

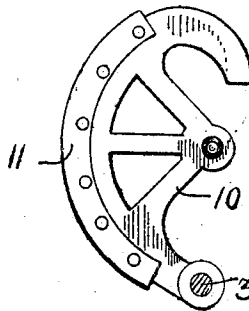


Fig 3

WITNESSES:

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UNITED STATES PATENT OFFICE.

WILLIAM H. STUBBLEFIELD, OF CLEVELAND, TEXAS.

CUTTING-MACHINE.

946,569.

Specification of Letters Patent.

Patented Jan. 18, 1910.

Application filed March 5, 1909. Serial No. 481,397.

To all whom it may concern:

Be it known that I, WILLIAM H. STUBBLEFIELD, a citizen of the United States, residing at Cleveland, in the county of Liberty and State of Texas, have invented a new and useful Improvement in Cutting-Machines, of which the following is a specification.

My invention relates to new and useful improvements in cutting machines and more particularly to that class of such machines as are adapted to be used in cutting the butt ends from the stalk of various kinds of grain and especially of rice.

The object of the invention is to provide a device of the character described by means of which the butt ends of the sheaves or bundles of grain may be cut off with ease and despatch.

As is well known, to those familiar with rice farming, when the rice is first cut it is tied into small bundles, and then several of these bundles are tied together in a shock where it remains, in the field, until dry enough to be threshed. The rice field is usually wet and the butt ends of the bundles, consequently, become damaged thereby, and also collect sand and dirt which will become mixed with the grain, in threshing, unless the damaged and dirty portion of the stalk is removed. This device is believed to be capable of not only accomplishing this object, but of doing so with greater ease and despatch than any device having the same object on the market.

Finally the object of the invention is to provide a device of the character described that will be strong and durable, one that can be easily and inexpensively constructed and one in which the working parts will not be liable to get out of working order.

With the above and other objects in view, the invention has particular relation to certain novel features of construction and operation, an example of which is given in this specification and illustrated in the accompanying drawings, wherein:—

Figure 1 is a side elevation of my device complete. Fig. 2 is a plan view thereof, and Fig. 3 is an elevation view of the knife and its support.

Referring now more particularly to the drawings, wherein like numerals of reference designate similar parts in each of the figures, the numeral 1 refers to a suitable supporting frame, upon which shafts 2 and 3 are mounted by means of bearings 4 and 5.

The shaft 2 carries a drive wheel 6 rigidly mounted thereon, which is designed to receive a drive belt, which imparts motion thereto; and the said shaft 2 also carries at its extremity a disk, 7 also rigidly mounted thereon and adapted to receive motion therefrom. The disk 7 has connection with link 8 by means of wrist pin 9 and imparts motion thereto, by reason of the eccentric connection of said link to said disk. The other end of the said link 8 has a pivotal connection with the segment 10 which has a rigid connection with the end of shaft 3 corresponding to that end of shaft 2 which supports the disk 7. This segment is semicircular in shape and is adapted to carry a cutter blade 11, which may be fastened to it in any suitable manner, as by screws or bolts.

The framework 1, carries a cutting edge 12 which is securely fastened to said frame by means of bolts 13 which pass through a flange carried by said cutting edge, and through the frame 1, or by some other suitable means. This cutting edge has a decided rearward curve at its upper or free end and the upper portion of the segment 10 curves in the opposite direction so that when the cutter blade is closed against the cutting edge a niche will be provided in which a sheaf of grain may rest, and which will hold said sheaf in position to drop between the cutter blade and cutting edge when the blade is drawn open.

It is understood that the butt end of the sheaf is to be placed between the cutting edge 12 and the cutter blade 11 when the device is open and when the said blade is forced forward by the forward thrust of link 8 the damaged portion of the sheaf will be removed and the remainder thereof will be left clean and dry. The grain may then be threshed without mingling the same with dirt, sand or other foreign substance.

The operation of my device is as follows:—When motion is transmitted, from the motor or engine to the drive wheel 6 the disk 7, being rigid with drive shaft 2, is also set in motion. This disk, in revolving, imparts to link 8 a forward and rearward thrust, by reason of the eccentric connection of said link to said disk. Through this link corresponding forward and rearward motions are imparted to the segment 10, and the blade carried thereby. This segment is carried by the shaft 3 which is revoluble in bearings 5, carried by the supporting frame

1, and is so located with reference to the cutting edge 12 as to pass closely thereby in its forward thrust, and the stalks being firmly held by said cutting edge are cut in two by
5 the forward thrust of the cutter blade.

A device of this character constructed in accordance with the description hereinbefore set out will be found to be not only practical and easily constructed but will also prove to
10 be much more effective, for the purposes for which it was intended than those now in common use.

What I claim is:—

In a device of the character described, the
15 combination with a supporting frame of an upright cutting edge carried thereby having its upper end free and forwardly curved; a vertically disposed segment pivoted at its

lower end to said frame, arranged to operate against said cutting edge and having its
20 upper or free ends rearwardly curved; a cutter blade carried by said segment; a drive shaft carried by said frame; a disk carried by said shaft and adapted to rotate therewith and a link connecting said disk and
25 segment and designed to transmit a reciprocating motion from the former to the latter.

In testimony whereof I have hereto subscribed my name in the presence of two sub-
30 scribing witnesses.

WILLIAM H. STUBBLEFIELD.

Witnesses:

WILLIAM CHERRY,
JOHN S. JOHNSON.