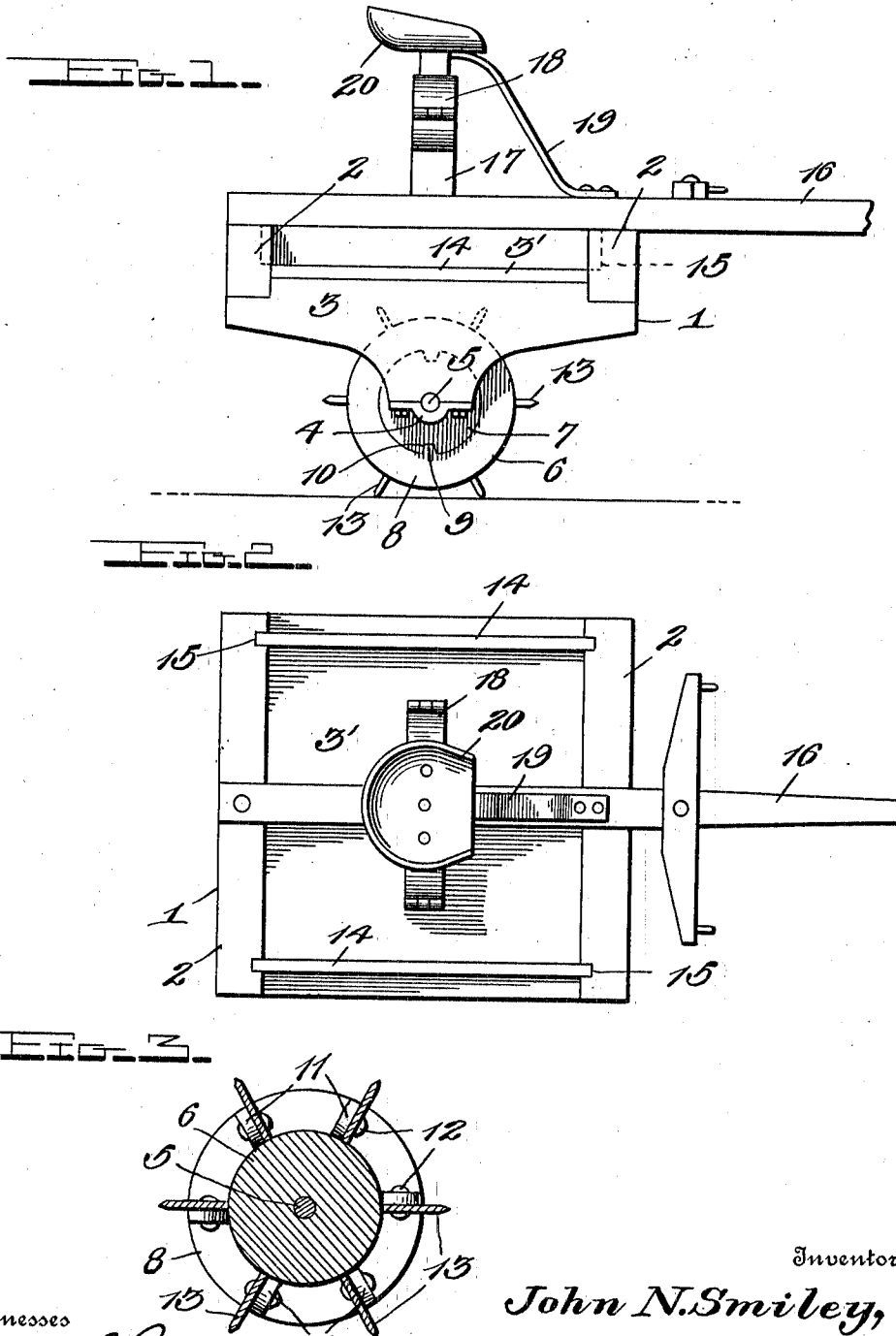


J. N. SMILEY.
STALK CUTTER.
APPLICATION FILED MAY 25, 1912.

1,059,320.

Patented Apr. 15, 1913.



Witnesses

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UNITED STATES PATENT OFFICE.

JOHN N. SMILEY, OF MANASSAS, GEORGIA.

STALK-CUTTER.

1,059,320.

Specification of Letters Patent.

Patented Apr. 15, 1913.

Application filed May 25, 1912. Serial No. 699,802.

To all whom it may concern:

Be it known that I, JOHN N. SMILEY, a citizen of the United States, residing at Manassas, in the county of Tattall and State of Georgia, have invented certain new and useful Improvements in Stalk-Cutters, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to new and useful improvements in stalk cutters, the object of the invention being to provide a machine of this character which will be of the proper weight to insure the cutting of the stalks in a rapid and perfect manner and which will permit of the ready removal and insertion of the blades or cutters.

Another object of the invention is to provide a machine of this character which will possess advantages in points of efficiency and durability, is inexpensive of manufacture and at the same time is simple in construction and operation.

With the above and other objects in view the invention consists in the novel features of construction and the combination and arrangement of parts hereinafter more fully described, pointed out in the claims and shown in the accompanying drawings, in which,

Figure 1 is a side elevation of a stalk cutter constructed in accordance with my invention. Fig. 2 is a top plan view of a stalk cutter constructed in accordance with my invention, and Fig. 3 is a transverse sectional view of the cutting roller.

Referring more particularly to the drawings, 1 indicates the platform or framework of my improved stalk cutter, which is preferably of rectangular form and which comprises the longitudinal beams 2, having their ends suitably connected to the end pieces 3. Secured to the upper edge of the end pieces and arranged between the beams 2, is a suitable bottom 3'. Secured to the lower edge of the end pieces 3, are the axle bearing brackets 4 in which is mounted the axle 5, and mounted upon the axle and arranged between the end pieces is a suitable drum 6, which is circular in form and having its ends provided with a reduced end 7.

Mounted upon the reduced ends 7, are the circular heads 8, which are provided with inwardly extending keys 9, said keys being arranged at diametrically opposite points and adapted to be disposed in the recess 10

formed in the reduced ends 7 of the drum. Thus it will be seen that the heads 8 will be held against rotary movement with respect to the drum, said heads being adapted to rotate with the drum. Formed upon the inner faces of the heads and arranged in spaced relation are the inwardly extending ears 11.

Arranged in spaced relation and having their ends suitably secured to the ears 11 by means of the bolts 12, are the cutting blades 13, said cutting blades having their inner edges fitted tightly up against the hub so as to prevent the stalks from wedging between the edge of the blade and the hub and thus clogging up the machine. It will be understood that these cutting blades 13 may be provided with a double cutting edge so that when they become dull on one edge, they can be quickly and easily reversed; the dull edge of the blade may be arranged next to the drum and the sharpened edge put into use.

Mounted upon the frame 1, and arranged at each end thereof are the end boards 14, which are held in place by having their ends disposed on the recesses 15 formed in the beams 2. By having these end boards 14 arranged upon each end of the frame a suitable box or receptacle is formed upon the top of the main frame for the purpose of providing a convenient way of loading ballast on to the frame when there are large stalks to be cut, and when the ballast is not required it can be easily removed from the frame by taking out one of the end boards 14 and pushing the ballast off by means of a shovel or other suitable implement.

A suitable tongue 16, is provided, having its inner end arranged across the frame and secured to the beams 2 by means of bolts or other suitable fastenings. Mounted upon the tongue adjacent its rear end is a suitable block 17 upon which is mounted the spring 18. Secured to the upper face of the spring and held in place by means of the brace 19, is the seat 20, which is occupied by the driver.

From the above description taken in connection with the drawings, it is evident that I have provided a stalk cutter, which is of proper weight and has the cutter disposed in proper relation to act upon the stalks and insure their rapid and perfect cutting. It will be understood that the machine can be made heavier or lighter by simply placing

the ballast upon the framework or removing the same therefrom.

While I have shown and described the preferred form of my invention, it will be
5 obvious that various changes in the details of construction and in the proportions, may be resorted to for successfully carrying my invention into practice without sacrificing any of the novel features or departing from
10 the scope thereof.

What I claim is:—

1. A stalk cutter consisting of a supporting frame, an axle journaled therein, a drum
15 mounted upon the axle having reduced portions formed upon each end thereof, said reduced portions having recesses formed therein and arranged at diametrically opposite points, circular heads mounted upon
20 said reduced portions, keys formed integral with said heads and disposed in said recesses, ears formed upon the inner faces of said heads and arranged in spaced relation, double edge cutting blades arranged in
25 spaced relation and having their ends detachably secured to said ears, and said cut-

ting blades having their inner edges fitting tightly up against the hub to prevent the stalks from wedging between the plates and the hub and thus clogging up the machine.

2. A stalk cutter, consisting of a supporting frame, an axle journaled therein, reduced portions formed upon each end of
30 said axle, having recesses formed therein and disposed at diametrically opposite points, heads mounted upon said reduced portions, keys formed integral with said heads and disposed in said recesses, ears
35 formed upon the inner faces of said heads and arranged in spaced relation and cutting blades arranged in spaced relation and having
40 their ends detachably secured to said ears.

In testimony whereof I hereunto affix my signature in the presence of two witnesses. 45

JOHN N. SMILEY.

Witnesses:

B. F. ALEXANDER,
F. F. LEGGETT.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."