(No Model.)

G. W. & G. A. DAVIS.

STALK CUTTER.

No. 308,306. Patented Nov. 18, 1884.

Fig. 1.

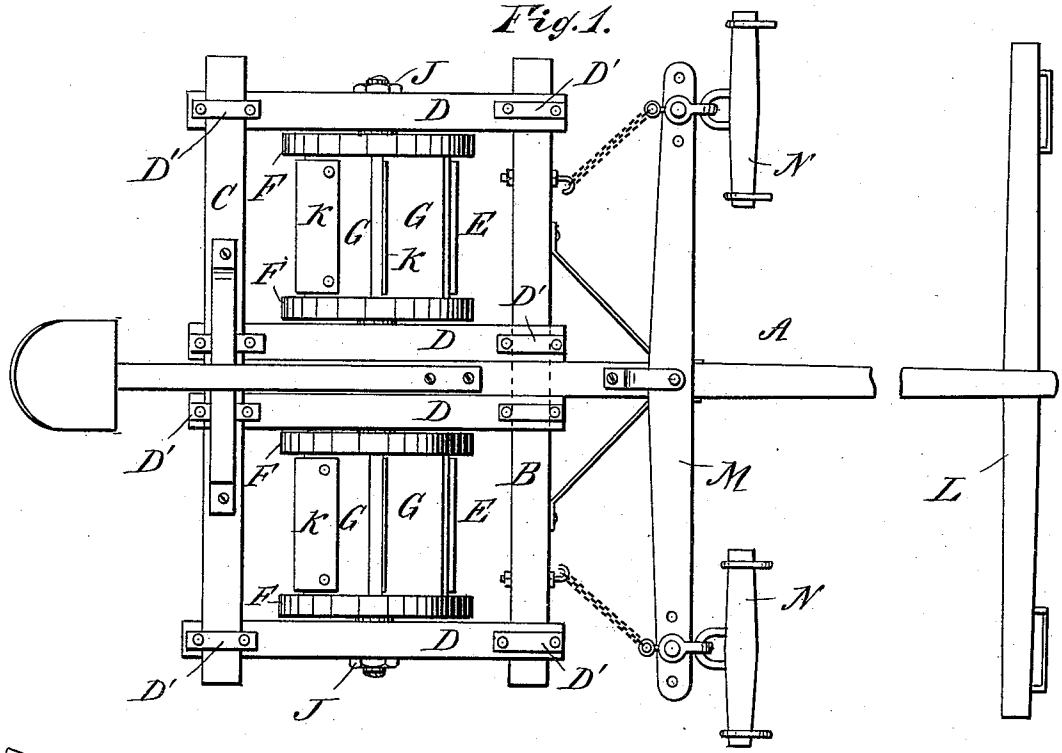


Fig. 2.

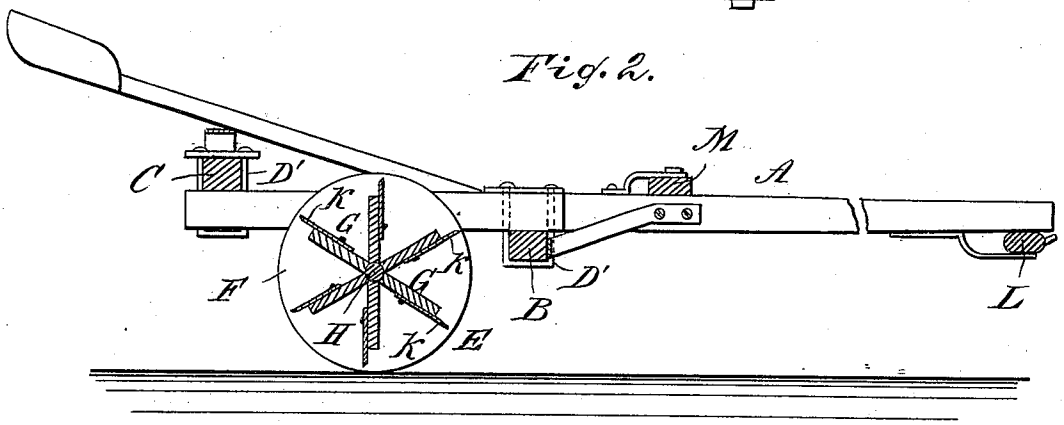
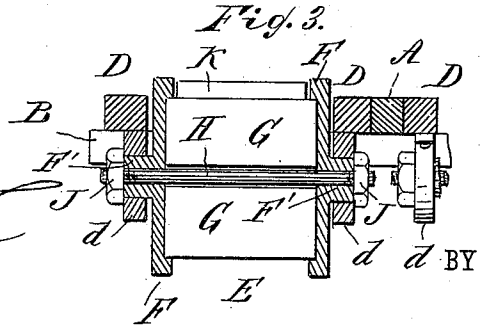


Fig. 3.



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UNITED STATES PATENT OFFICE.

GUERNSEY WILLIAM DAVIS AND GEORGE AARON DAVIS, OF PINE BLUFF, ARKANSAS.

STALK-CUTTER.

SPECIFICATION forming part of Letters Patent No. 308,306, dated November 18, 1884.

Application filed January 29, 1884. (No model.)

To all whom it may concern:

Be it known that we, GUERNSEY W. DAVIS and GEORGE A. DAVIS, both of Pine Bluff, in the county of Jefferson and State of Arkansas, have invented a new and Improved Stalk-Cutter, of which the following is a full, clear, and exact description.

The object of our invention is to provide a new and improved machine for breaking down two rows of corn, cotton, or other stalks, and cutting them into pieces.

The invention consists in the construction and arrangement of parts, as will be hereinafter fully set forth and claimed.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a plan view of our improved stalk-cutter. Fig. 2 is a longitudinal sectional elevation of the same. Fig. 3 is a transverse sectional view of one of the cutting-rollers.

The tongue A is secured to two cross-bars, B and C, and on each side of the tongue a pair of bars, D D, are clamped by means of U-shaped or other clamps, D′, on the bars B C. The bars D D of each pair can be adjusted a greater or less distance from each other or a greater or less distance from the tongue A. Between the bars D of each pair a cutting-roller, E, is journaled, the bars D being provided with downwardly-projecting lugs *d*, in which the ends of the hubs of said rollers are journaled. Each roller E is composed of two cast-iron end disks, F, each provided in the middle of its outer surface with a hub, F′. The inner surfaces of the end disks, F, are provided with radial grooves for receiving the ends of wings G, held between the said disks. The outer edges of the wings G do not extend to the rims of the disks, as shown in Fig. 2. The inner edges of the wings G rest against rods H, passed through the hubs of the disks F, on the ends of which rod nuts J are screwed, which rods hold all the parts of each roller together. The cutter-blades K, made of steel and having sharp edges, are bolted or otherwise secured on the wings G; but their edges do not extend to the rims of the disks F so as to protect the edges of the blade when the rollers run on the road to and from the field, &c. On the end of the tongue A a long neck-yoke, L, is fastened, and the double-tree M is made very long, and on each end of the same a single-tree, N, is held adjustably. Each horse can travel in a furrow between two rows of stalks, and a vacant furrow will remain between the rows of stalks that are being cut. The neck-yoke and the double-tree assist in breaking the stalks in two different places. The broken stalks are cut to pieces by the blades K as the rollers pass over the stalks. Two rows of stalks are broken down and cut at the same time. As the bars D are adjustable on the bars B C, the rollers E can be adjusted a greater or less distance from the middle of the frame, according to the distance the rows are apart.

We are aware that cutter-rollers have been journaled in the same transverse line, said rollers consisting each of two disks and blades connected thereto, said cutter-rollers being mounted adjustably on the same shaft, also that field-rollers have been provided with two rollers in a transverse line with each other, and mounted on frames that were adjustable on the main frame, and we do not desire to claim any such construction as of our invention.

Having thus described our invention, we claim as new and desire to secure by Letters Patent—

In a stalk-chopper, the cutter-roller E, consisting of the end disks, F, formed with radial grooves on their inner surfaces and with hubs F′ on their outer central faces, wings G, constructed to be held at their ends in said grooves and to bear against the rod H at their lower edges, blades K, secured to the outer edges of the said wings, and a rod, H, passing through the hubs and nuts on the ends of the same for securing the roller within the frame, substantially as set forth.

GUERNSEY WILLIAM DAVIS.
GEORGE AARON DAVIS.

Witnesses:
E. T. WILKINS,
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