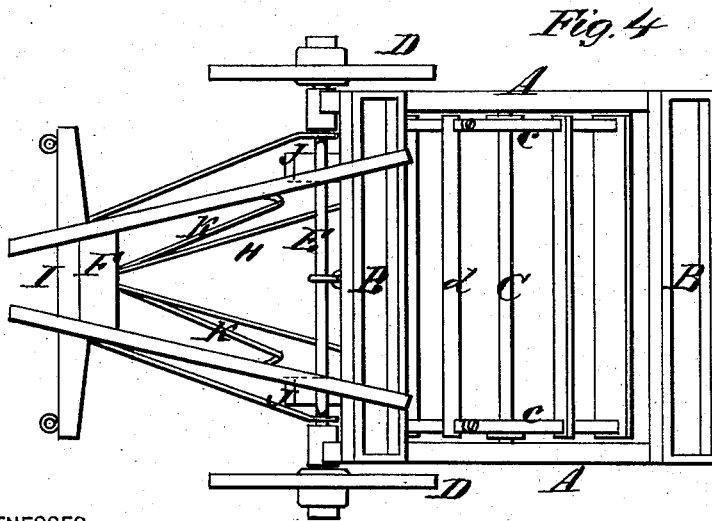
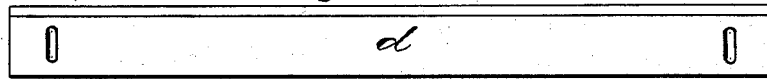
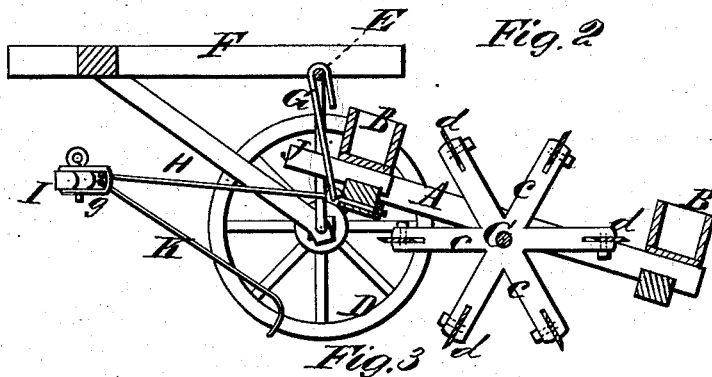
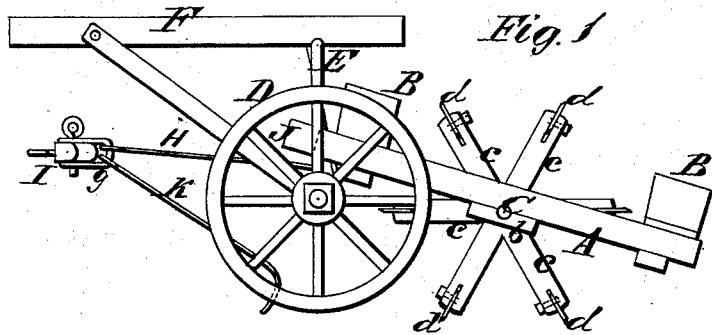


A. C. SMITH.  
Corn-Stalk Cutter.

No. 165,128.

Patented June 29, 1875.



WITNESSES  
*Robert Covitt,*  
*George C. Upham,*

INVENTOR  
*Albert C. Smith,*  
*Clipman & Co.*

ATTORNEYS

# UNITED STATES PATENT OFFICE.

ALBERT C. SMITH, OF FORT MADISON, IOWA, ASSIGNOR OF ONE-HALF HIS  
RIGHT TO THEO. S. JACKSON, OF SAME PLACE.

## IMPROVEMENT IN CORN-STALK CUTTERS.

Specification forming part of Letters Patent No. **165,128**, dated June 29, 1875; application filed  
March 13, 1875.

*To all whom it may concern:*

Be it known that I, ALBERT C. SMITH, of Fort Madison, in the county of Lee and State of Iowa, have invented a new and valuable Improvement in Corn-Stalk Cutters; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a side view of my corn-stalk cutter. Fig. 2 is a longitudinal vertical sectional view of the same, and Fig. 3 is a detail view. Fig. 4 is a plan view.

This invention has relation to means for cutting up corn-stalks while lying on the ground in the field; and it consists in certain novel means for attaching the stalk-cutter to the axle of a straddle-row cultivator, and preventing lateral displacement of the cutter-frame, at the same time allowing the cutter to rise and descend and accommodate itself to inequalities of surface passed over.

In the annexed drawings, A designates a rectangular frame, at the front and rear ends of which boxes B B are secured, which are designed for containing stones or other weights for loading the cutters down to their work. C designates a shaft, which extends transversely across the frame A and turns in journal-boxes b. From this shaft radiate arms c, having removable chopping-blades d adjustably applied to their ends, which blades have double cutting-edges, and are therefore reversible. D D designate two transporting-wheels, which are applied on the ends of a cranked axle, E, carrying a frame, F, which is adapted for having cultivator-teeth secured to it when the stalk-cutter is detached from its axle. G designates a rod, having a long hook formed on one end, which hooks over the elevated

part of the axle E, and thus attaches the cutter-carrying frame to this axle. Instead of the rod G a chain may be used. H designates a draft-bail, which is secured to the front cross-beam of the frame A, and which has linked to its front end a double-tree, I, to which the horses are hitched. It will thus be seen that the horses draw directly on the cutter-frame A, the cutters rolling on the ground and severing the stalks as they successively strike them. J J designate two arms, which are adjustably secured to the front beam of frame A, at such a distance apart that when this frame is attached to the axle E, as described, the arms will extend between the vertical portions of this axle, and will thus prevent the frame A from undue lateral motion while the cutters are operating. K K designate curved arms, which are loosely connected to a loop, g, in the center of the double-tree I, and which drag on the ground and straighten out the stalks in front of the cutters, and leave the stalks in the best possible position for being chopped up.

What I claim as new, and desire to secure by Letters Patent, is—

1. The combination of a cutter-frame, A, transporting-carriage D E, and link G, loosely connecting the frame and the carriage, whereby the former is allowed to oscillate on its draft-axis to adapt itself to the inequalities of the soil, substantially as specified.

2. The cutter-bearing frame A, provided with laterally-adjustable arms J, in combination with the crank-arm E of a transporting-carriage, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

ALBERT C. SMITH.

Witnesses:

CHAS. E. BABCOCK,  
O. K. HORNBY.