

G. NICOL.
BEET TOPPER.
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919,929.

Patented Apr. 27, 1909.

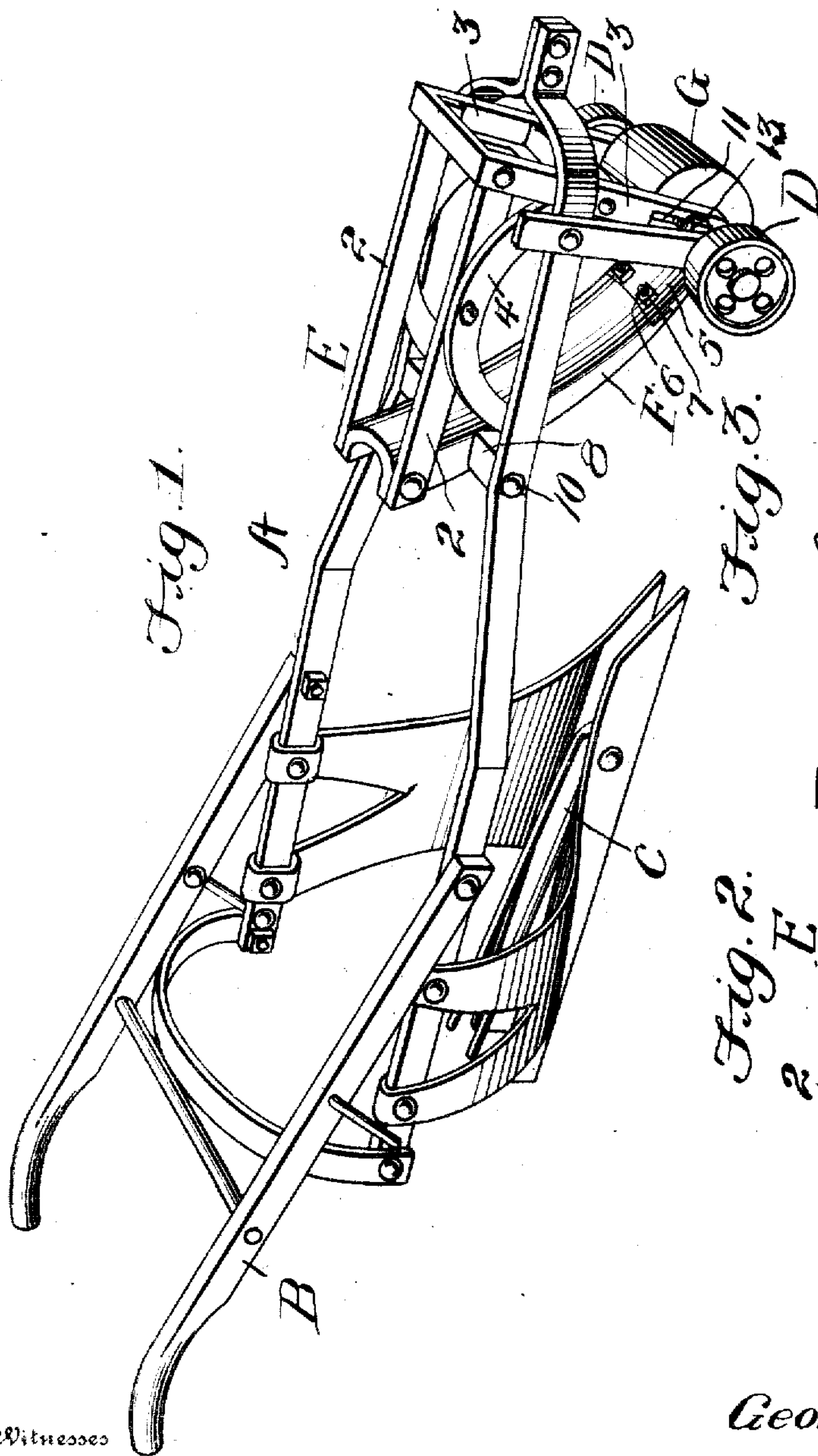


Fig. 1.

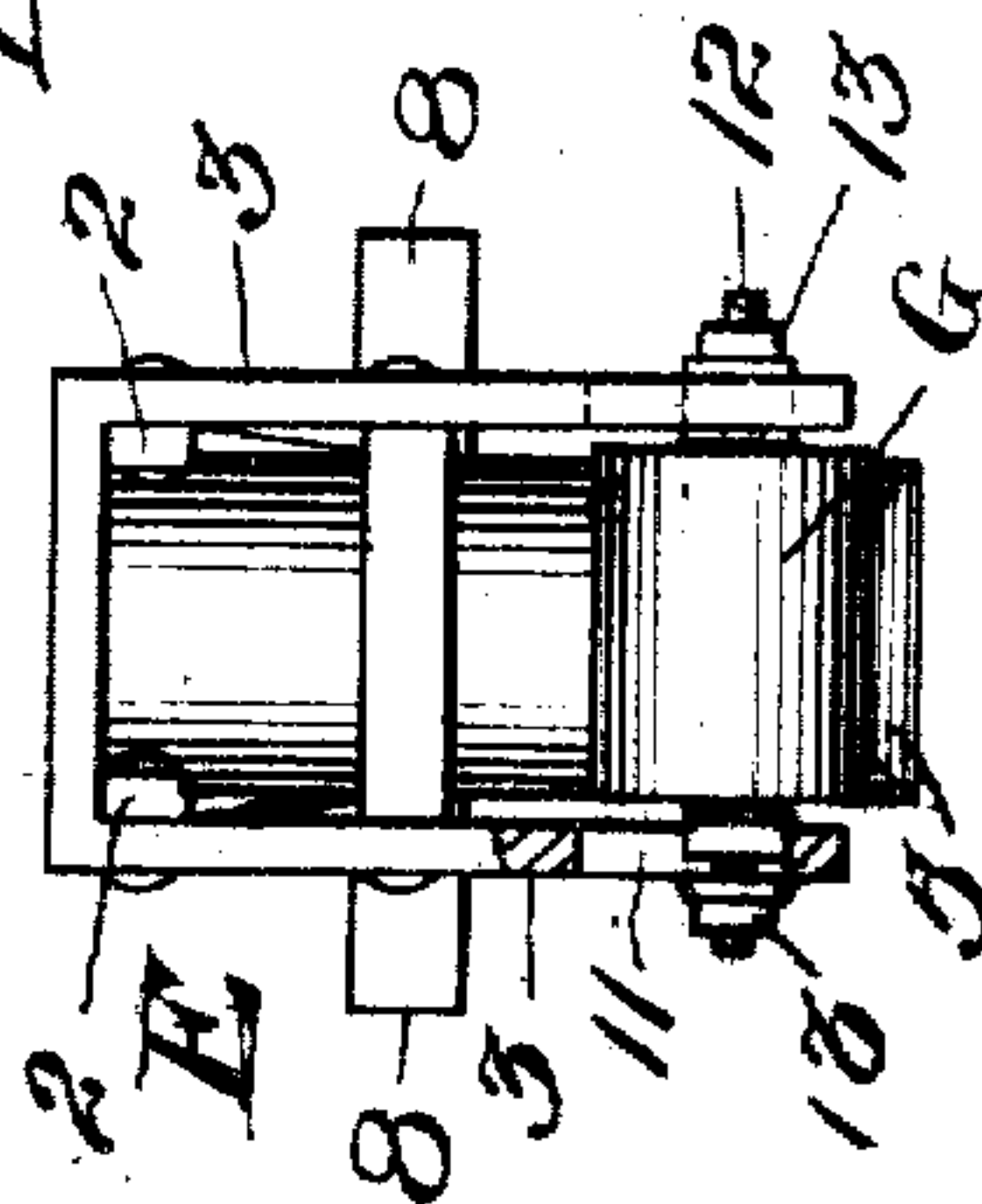


Fig. 2.

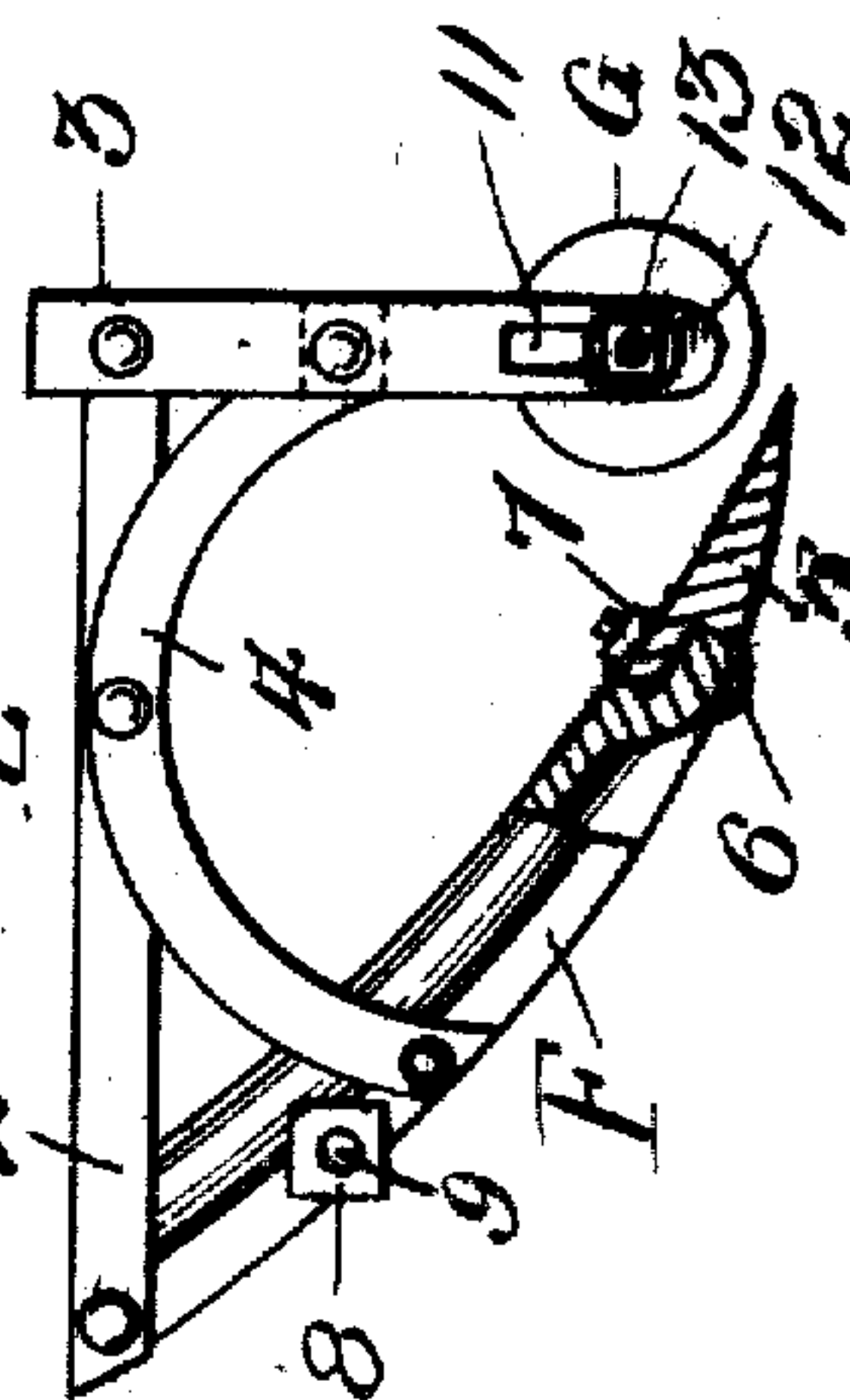


Fig. 3.

Witnesses

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GEORGE NICOL, OF AMITY, COLORADO

BEET-TOPPER.

No. 919,929.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, GEORGE NICOL, a citizen of the United States of America, residing at Amity, in the county of Prowers and State of Colorado, have invented new and useful Improvements in Beet-Toppers, of which the following is a specification.

My invention relates to improvements in beet toppers, and its primary object is the provision of a beet topper which can be readily and quickly applied to a beet digging machine of the conventional type, which is simple, durable and efficient, and which may be manufactured and sold at a comparatively low cost.

A further object of the invention is the provision of a beet topper wherein the blade may be readily and quickly regulated to cut off a greater or lesser amount of a beet top, and which is constructed to throw the tops of the beets to the sides of the machine.

With the above and other objects in view, the invention consists in the construction, combination and arrangement of parts hereinafter fully described and claimed and illustrated in the accompanying drawing, wherein:

Figure 1 is a perspective view illustrating the application of my improved beet topper. Fig. 2 is a view in side elevation of the beet topper, a portion of the blade being in longitudinal section, and Fig. 3 is a view in front elevation of the beet topper, the lower portion of one of the vertical members of the beet topper frame being in vertical section.

Referring to the drawing by reference characters, A designates the frame, B the handles and C the diggers of a beet digging machine of the usual construction and form, the forward end of the frame being supported by wheels D.

My improved beet topper is adapted to be secured between the side bars of the frame A in advance of the diggers C, and comprises a frame E, a blade F and a roller G.

The frame E comprises a pair of spaced parallel bars 2, a member 3 of inverted U-form, which is secured to the front ends of the bars 2, and curved braces 4 which are secured at their front ends to the sides of the U-shaped member 3 and at points intermediate their ends to the bars 2. The blade F is secured to the rear ends of the bars 2 and braces 4, and is provided with a detachable cutting edge 5. The lower end of the blade F and the upper end of the cutting edge 5

are rabbeted to permit of an interlocking connection between the same, as fully disclosed in Fig. 2 of the drawing. The cutting edge 5 is detachably secured to the blade by means of bolts 6 and nuts 7. In view of the manner in which the cutting edge 5 is secured to the blade F, the cutting edge may be readily and quickly removed when it is desired to sharpen the same. The outer surface of the blade F is convex in cross-section, whereby to adapt the blade to throw the tops of the beets to the sides of the machine. To give the upper surface of the blade F the proper curvature, the blade is preferably made concavo-convex in cross-section. Blocks 8 are secured to the blade F at points adjacent its upper end, and are provided with openings 9. Bolts 10 pass through the side bars of the frame A, through the blocks 8, and through the sides of the blade F to pivotally secure the beet topper upon the frame in advance of the digger C. Nuts, not shown, are mounted on the ends of the bolts 10 which project beyond the sides of the blade F. The lower ends of the sides of the member 3 terminate a short distance above the cutting edge 5, and are provided with slots 11 which are adapted to receive the ends of a shaft 12.

The roller G is journaled upon the shaft 12, and the ends of the shaft are threaded and project beyond the sides of the members 3. The shaft 12 is adapted to be adjusted on the member 3 to raise or lower the roller G, and it is adapted to be secured in its adjusted position by means of nuts 13, which are mounted upon the threaded ends of the shaft for engagement with the sides of the member. The blade F is inclined downwardly in the direction of the roller G and the roller is disposed above and a little in advance of the cutting edge of the blade. The greater portion of the weight of the topper is disposed in advance of the pivot blocks 8, whereby to keep the blade in cutting position at all times. The roller G is adapted to contact with the soil in advance of the cutting edge of the blade, and in view thereof and in view of its adjustability, the blade may be regulated to cut off a greater or lesser amount of the beet top.

It should be apparent from the above description taken in connection with the accompanying drawing, that I provide a beet topper which may be readily and quickly connected to a beet digging machine of the

usual construction, which is simple, durable and efficient, and which may be manufactured and sold at a comparatively low cost.

Changes in the form, proportions and minor details of construction may be made within the scope of the claims without departing from the spirit or sacrificing any of the advantages of the invention.

Having fully described and illustrated my invention, what I claim is:

1. A beet topper comprising a frame, a blade secured to the frame, a roller mounted upon the frame, and pivot blocks secured to the blade.
2. A beet topper comprising bars, a member secured to the front ends of the bars, a blade secured to the rear ends of the bars, braces secured to the bars, blade and member, and a roller mounted upon the member.

3. A beet topper comprising bars, an inverted U-shaped member secured to the front ends of the bars, a blade secured to the rear ends of the bars, braces secured to the bars, blade and member, a shaft adjustably mounted upon the member, and a roller journaled on the shaft.

4. A beet topper comprising a frame, a blade secured to the frame, said blade having a transversely curved upper surface and a detachable cutting edge, a roller mounted upon the frame, and pivot blocks secured to the blade.

In testimony whereof, I affix my signature in presence of two witnesses.

GEORGE NICOL.

Witnesses:

J. H. CHILDS,
FRANK McGRATH.