

(No Model.)

C. JOHNSON.
SOD CUTTER.

No. 420,071.

Patented Jan. 28, 1890.

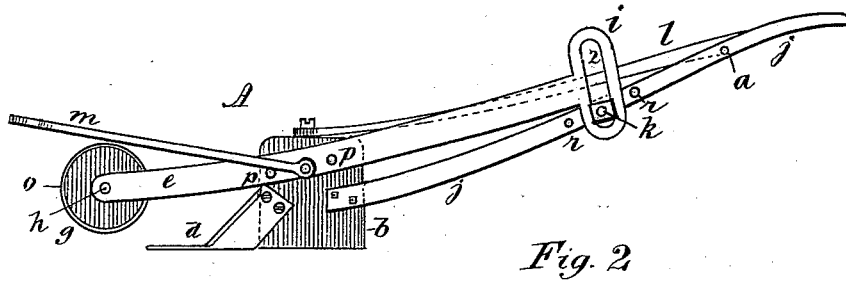


Fig. 2

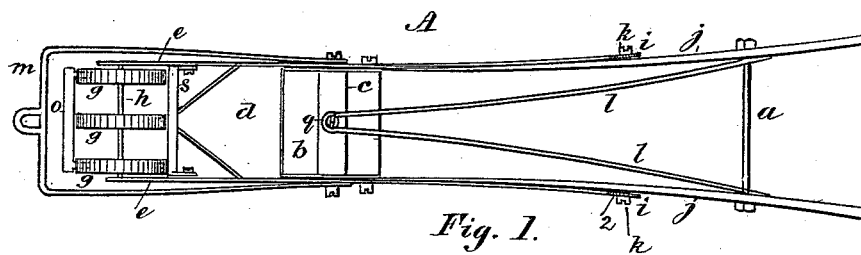


Fig. 1.

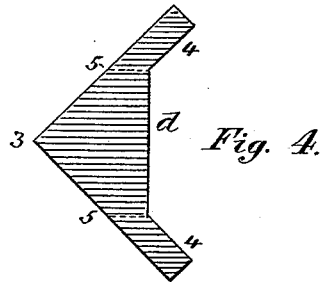


Fig. 4.

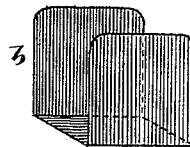


Fig. 3.

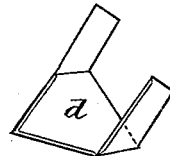


Fig. 5

Witnesses

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Fred Barth

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cutty

UNITED STATES PATENT OFFICE.

CHARLES JOHNSON, OF THOROLD, ONTARIO, CANADA.

SOD-CUTTER.

SPECIFICATION forming part of Letters Patent No. 420,071, dated January 28, 1890.

Application filed May 10, 1888. Serial No. 273,527. (No model.)

To all whom it may concern:

Be it known that I, CHARLES JOHNSON, of Thorold, in the county of Welland, Province of Ontario, Dominion of Canada, have invented certain new and useful Improvements in Sod-Cutters; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same.

The invention relates to a very handy device for cutting sods longitudinally any degree of thickness, and also cut them across at right angles to the longitudinal cuts at any length desired, and also provided with a scraper to clean the wheels to prevent them from clogging.

By reference to the drawings forming part of this specification it will be seen that Figure 1 is a plan of my device. Fig. 2 is a side view. Fig. 3 is a perspective view of the box in rear of cutter. Fig. 4 is a plan of cutter before completion. Fig. 5 is a perspective view of the cutter finished.

To enable any one skilled in the art to construct my machine, it may be described as follows:

A, Figs. 1 and 2, represent the entire machine, consisting of the following-named parts:

g g g are three wheels, which are secured on a shaft *h*, said shaft having its bearings in a side frame *e e*. One wheel only could be used, if desired; but three are preferable.

m is a three-sided frame attached to the outer sides of the frame *e e*, to which a whiffletree is fastened to attach a horse or horses for drawing the machine.

b is a three-sided metal cutting-box, secured in any convenient manner to the sides *e e* by the same bolts which secure the frame *m* to the said sides. The said box is not properly a cutter, but simply used to secure the cutter thereto to brace it, and also to serve as a support for the handles, sides, and form a bottom to hold all the parts together and steady the machine.

c is a brace, bent at right angles at each end, connecting the top parts of the said cutting-box together for strength, the same bolts above mentioned also passing through its bent ends.

d is a pointed steel knife, formed as shown at Fig. 4, and bolted to the cutting-box *b*. Its horizontal rear end abuts against the front end of the said cutting-box. It is formed of sheet-steel, first in the form shown at Fig. 4, with a cutting-point 3, and two wings 4 4. The dotted lines 5 5 show where the wings are bent upward. The top edge of the point 3 is hammered down to form a cutting-edge from the dotted lines 5 5 to the point, and the outside edge of the wings are similarly made into a sharp cutting-edge from the points 5 to the rear end of the wings, by which the point 3 cuts horizontally and the wings the vertical cut, thus cutting the sod clean, smooth, and with great rapidity.

j j are two handles attached to the cutting-box *b*, and their outer ends are connected by a cross-brace *a*, and *l l* are two diagonal braces connecting the cross-brace *a* with the brace *c* of the top of the cutting-box *b* by a screw-bolt *q*.

It will be observed that the rear ends of the sides *e* terminate in an enlargement *i*, in which is cut a vertical slot 2.

k k are screw-bolts, which are made to pass through the said slots 2 and into the handles *j j*, one on each side, and tightened at any desired point for the purpose of elevating the front wheel or wheels *g* at any required height from the surface of the ground. By this means sods can be cut any degree of thickness.

p p are extra holes in the sides *e*, and *r r* the same in the handles *j*, for the purpose of making it convenient to adjust the wheel or wheels *g* backward or forward of the cutter, as desired.

o is a knife, adjustably attached to the front wheel or wheels *g*, and revolves with them for cutting sods crosswise as they are cut longitudinally by the machine. It is used when large quantities of sod are being cut.

s is a plate attached (in rear of the wheels *g*) to the sides *e e*, and is for the purpose of a scraper to keep the wheels clean, but is removed when the knife *n* is used.

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

1. In a sod-cutting machine, the cutter *d*, formed with wings 4 at right angles to the

base and point 3, as shown, in combination with the cutting-box *b*, sides *e*, wheel or wheels *g*, and handles *j j*, substantially as and for the purpose specified.

- 5 2. The sides *e e*, constructed with enlargements *i i* and vertical slots 2, in combination with the handles *j j*, bolts *k*, cutting-box *b*, and wheel or wheels *g*, substantially as and for the purpose specified.

Dated at Hamilton, Ontario, Canada, this 10
9th day of January, 1888.

CHAS. JOHNSON.

In presence of—

FRED BARTLE,
WM. BRUCE.