

(No Model.)

R. A. TOLER.
DEVICE FOR CUTTING POTATOES.

No. 419,231.

Patented Jan. 14, 1890.

Fig. 1.

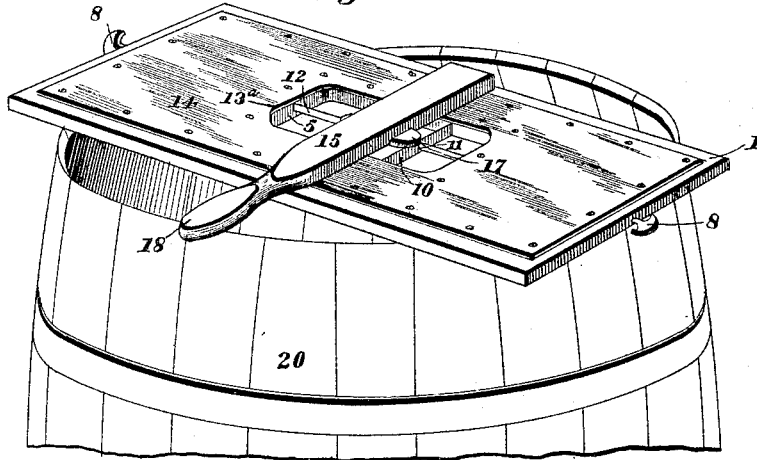


Fig. 2.

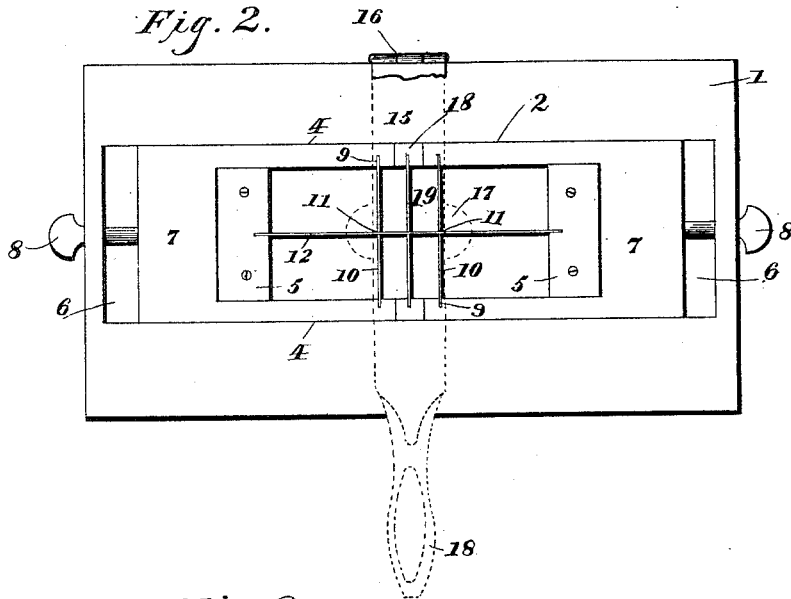
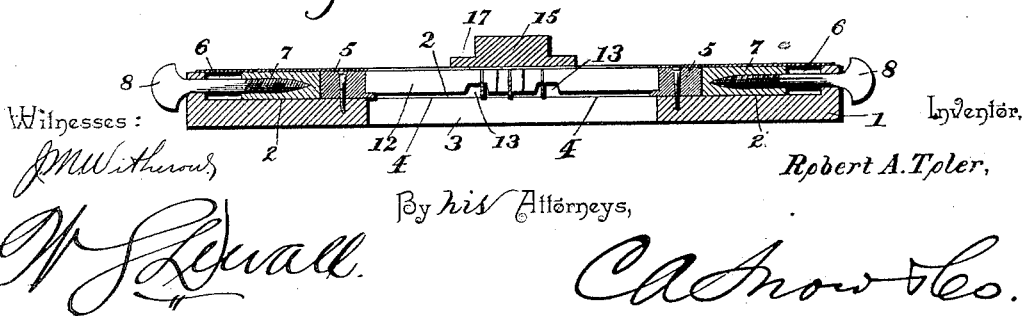


Fig. 3.



UNITED STATES PATENT OFFICE.

ROBERT A. TOLER, OF LADOGA, IOWA.

DEVICE FOR CUTTING POTATOES.

SPECIFICATION forming part of Letters Patent No. 419,231, dated January 14, 1890.

Application filed July 24, 1889. Serial No. 318,511. (No model.)

To all whom it may concern:

Be it known that I, ROBERT A. TOLER, a citizen of the United States, residing at Ladoga, in the county of Taylor and State of Iowa, have invented a new and useful Device for Cutting Potatoes, of which the following is a specification.

This invention has relation to a device for cutting potatoes for seeding purposes, and though especially designed for this purpose may be used with advantage in cutting roots, &c., for stock-fodder.

Among the objects in view are to provide a device for the above purpose, which is capable of operating upon one or more potatoes or a series of roots at the same time, and which will cut simultaneously a quantity of uniformly-sized sections, and which may be adjusted for different purposes and for operating upon different-sized potatoes.

With these general objects in view the invention consists in a feed-table adapted to be mounted over a barrel or other receptacle and provided with a series of adjustable knives, the cutting-edges of which are flush with the upper edge of the table, and in pivoting a lever to one side of the table and adapted to press the potatoes against the knives and force the same between the knives.

Referring to the accompanying drawings, Figure 1 is a perspective view of the cutter constructed in accordance with my invention, the same being in operative position over a barrel. Fig. 2 is a plan with the retaining-plate removed. Fig. 3 is a longitudinal section.

Like numerals of reference indicate like parts in all the figures.

In practicing my invention I prefer to construct the table 1 of cast-iron, though, if desired, I may form the same of wood. In the upper face of the table I provide an oblong recess 2 and in the center of the same form a similarly-shaped but smaller opening 3, the recess thus forming at both sides of said opening opposite grooves or ways 4. At each end of the opening and within the recess is formed a stop 5, the upper surface of which is flush with that of the table, and intermediate the stops and the edge of the table occur pockets 6. 7 represents opposite U-shaped knife-carrying arms, the terminals of which rest in the

opposite recesses and the intermediate portions in the pockets, and are connected to the table by means of set-screws 8, passed through the end walls of the pockets and terminating in the U-shaped arms, and thus serve to operate the same back and forth in the pockets. The branches of the U, as before stated, lie and ride in the opposite ways, and each pair is provided in this instance with a series of transverse knife-receiving slots 9, in which are mounted vertically-disposed knives 10, extending transverse the opening in the table. By operating the set-screws it is apparent that the two U-shaped knife-carrying arms may be adjusted toward or from each other, and thus bring their knives closer to or farther from each other. The transverse knives are each provided with a central vertical transverse slot 11 in its upper edge, and mounted in the same and terminating in the stop-block is a longitudinally-disposed knife 12, correspondingly recessed at its lower edge, as at 13, the ends of the knife terminating in the stop-blocks.

18 represents opposite blocks secured within the opposite recesses and located between the ends of the opposite U-shaped arms. These blocks have their inner faces slotted, and in the same are mounted the ends of a fixed knife 19.

Mounted over the table, and having a central opening 13^a, is a securing-plate 14, the central opening of which registers with the opening in the table.

15 represents a hand-lever, the rear end of which is hinged, as at 16, to the side of the table, said lever being arranged in such position as to fold upon the table and transverse the knives, and opposite said knives is projected laterally at each side of the lever forming a head 17, the lever terminating at its free end with a hand-lever 18.

The device thus constructed is mounted over a barrel or other receptacle 20, (see Fig. 1,) and the potatoes or other vegetables are fed by hand upon the knives and under the lever, which is brought down by the other hand of the operator, and the potatoes thus divided into sections or tubes for planting purposes and drop through between the knives into the receptacle.

Having thus described my invention, what I

claim, and desire to secure by Letters Patent, is—

1. In a cutter, a base provided with an opening and a recess larger than and surrounding said opening, in combination with U-shaped arms the terminals of which lie in the recess at each side of the opening, knives mounted in the terminals and extending across the opening, and set-screws inserted through the end walls of the recesses and terminating in the arms, substantially as specified.

2. The combination, with the base having the central opening and surrounding recess and having the opposite end blocks, of the longitudinal knives mounted in the end blocks and the opposite U-shaped arms mounted for movement in the recesses and carrying transverse knives, set-screws passing through the ends of the table and terminating in the blocks, and a superimposed securing-plate mounted over the table and having an opening corresponding with that in the table, substantially as specified.

3. In a cutter, a base provided with an opening and with a rectangular recess surrounding the opening, fixed blocks located in the recess at opposite sides of the opening, and a knife mounted in the blocks, in combination with opposite U-shaped arms mounted in the opposite ends of the recess and having their terminals or branches disposed at each side of the opening, knives mounted in the branches and extending across the opening, and means for adjusting the arms and their knives toward and away from the fixed knife, substantially as specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

ROBERT A. TOLER.

Witnesses:

CHAS. THOMAS,
VINNIE UNDERWOOD.