

S. M. RABER.
SAGE BRUSH GRUBBING AND DITCHING MACHINE.
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1,023,173.

Patented Apr. 16, 1912.

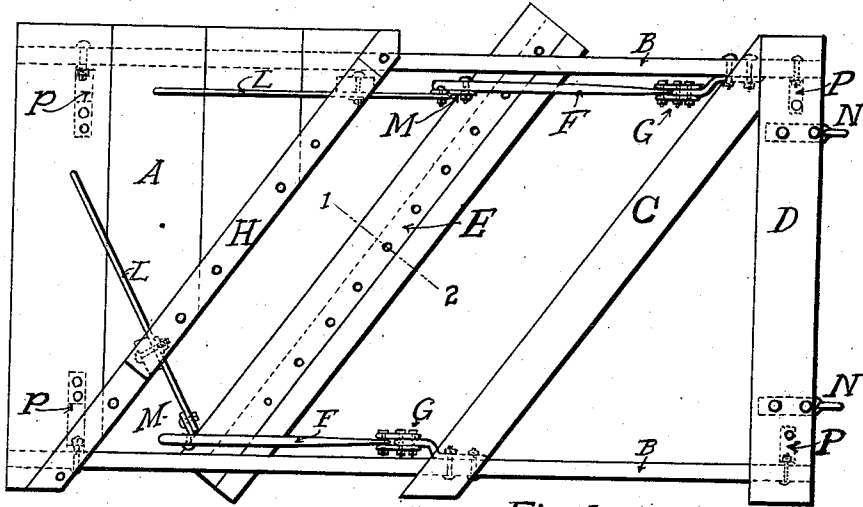


Fig. 1

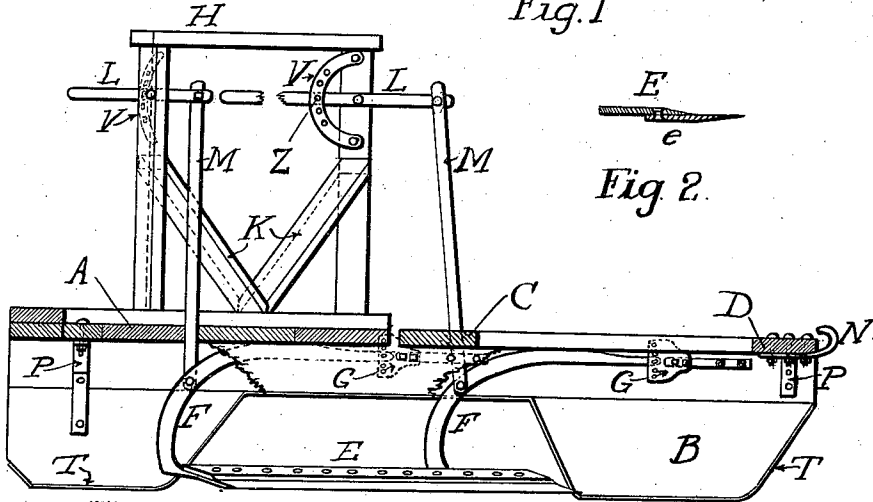


Fig. 2.

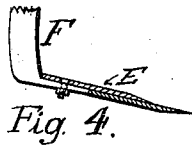


Fig. 4.

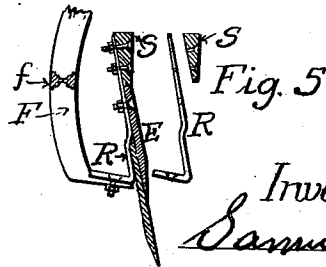


Fig. 5

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SAMUEL M. RABER, OF COLONY, WYOMING.

SAGE-BRUSH-GRUBBING AND DITCHING MACHINE.

1,023,173.

Specification of Letters Patent.

Patented Apr. 16, 1912.

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To all whom it may concern:

Be it known that I, SAMUEL M. RABER, a citizen of the United States, whose post-office address and residence are at Colony, Crook county, Wyoming, have invented a new and useful Sage-Brush-Grubbing and Ditching Machine, of which the following is a specification.

This invention relates to a sage brush grubbing machine comprising improved means for cutting the sage brush off level with the surface of the earth and it also serves to level small hills or hummocks upon which the sage brush often stands, such leveling being of great importance if the land is to be irrigated.

The machine consists of a strong sharp steel blade attached obliquely to a frame mounted on skids or runners, though it may be mounted on wheels if desired. The blade is provided with means for raising or lowering it and the frame is intended to be drawn over the ground by horses or other draft animals. For ditching purposes, the machine operates in much the same manner except that the blade is then arranged to stand at an angle of about fifteen degrees with the vertical, while when grubbing sage brush, it lies at about an angle of eighty degrees with the vertical.

Further objects and advantages of the invention will be set forth in the detailed description which now follows.

In the accompanying drawing, Figure 1 is a plan view of a machine embodying the invention, Fig. 2 is a cross section of the blade hereinafter described, Fig. 3 is a view partly in side elevation and partly in section, of the machine, Fig. 4 is a view partly in section showing the blade attached to its supports, and Fig. 5 is a view partly in section of the blade, showing its support when in vertical or ditching position.

Like numerals designate corresponding parts in all of the figures of the drawing.

A frame comprising a platform A, runners B, brace C and cross bar D, supports the knife or blade E, said blade being mounted upon the ends of swinging curved

beams which latter are pivoted at their forward ends to clevises G, it being understood that these clevises have each a number of holes therein so that the pitch of the blade may be varied by securing the beams F in one or the other of these holes.

Mounted upon a frame H supported from the platform A are levers L, which by means of links M, are connected to beams F. These levers L are pivoted to the frame H and swing over segments V having a series of openings therein through which a pin Z may be passed to hold the levers L in adjusted position. It will be seen that by virtue of this arrangement, each end of the blade is independently adjustable to render possible the use of the structure on hillsides or other inclined surfaces.

P designates braces to brace the runners from the platform.

Hooks N are provided for the attachment of horses, or other draft animals, to the structure. The runners B are provided with wearing irons T to resist wear.

The obliquely disposed blade E lies sometimes almost horizontally and at other times almost vertically, according to whether it is desired to operate upon sage brush or to use the machine for ditching. When cutting sage brush, the blade lies in the position illustrated in Figs. 3 and 4, while when used for ditching, it occupies the position shown in Fig. 5. When used for ditching a foot R is provided which forms a connecting medium between beam F (the cross sectional shape of which is shown at f) and the blade E. In addition, a board S is secured to this foot to prevent the dirt from passing over the top of the blade.

Having described my invention, what I claim is:

In a device of the character described, the combination with a pair of pivotally mounted swinging beams, of means for raising and lowering the free ends of said beams, said beams terminating in forwardly projecting portions, an obliquely disposed blade; attaching feet, portions, of which are secured to the rear faces of said blade and

other portions of which are attached to the
forwardly projecting terminal portions of
the beams, said attaching feet being of such
shape as to maintain the blade at an acute
5 angle to the vertical, and a board having its
front face forwardly inclined from its lower
edge upwardly, said board being secured to

and supported by said feet and overlying
said blade.

SAMUEL M. RABER.

Witnesses:

A. B. YORK,
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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."