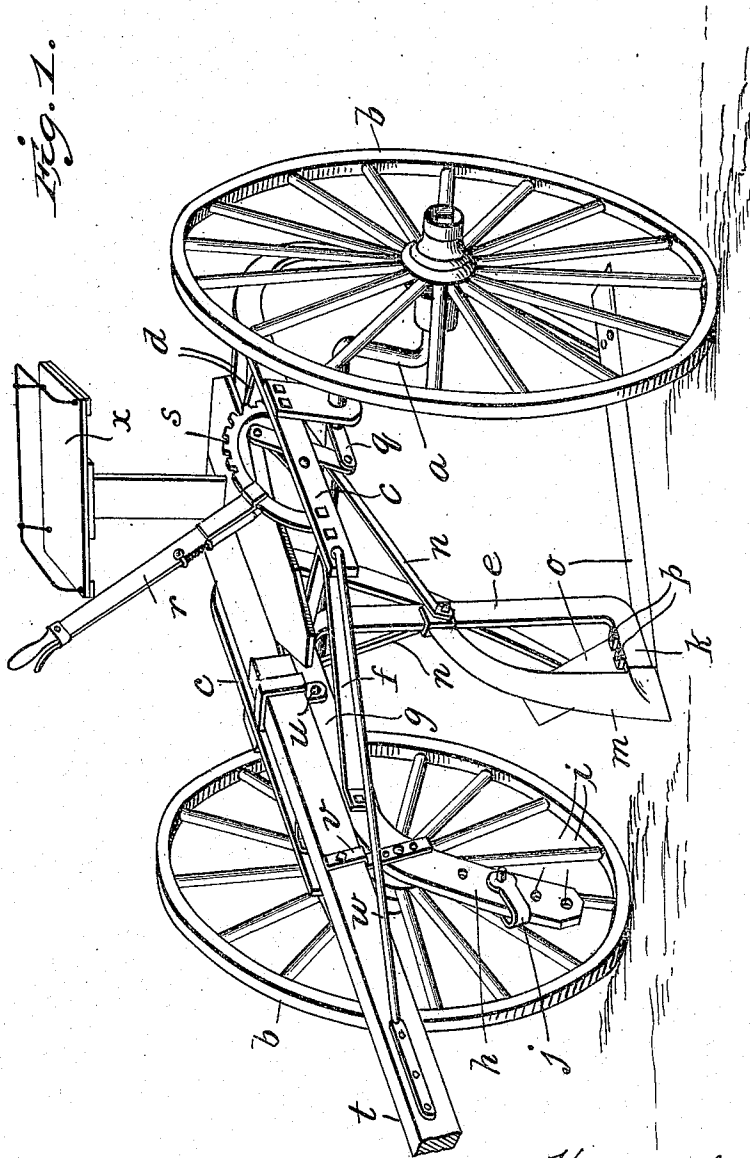


H. E. GALE & E. E. KRENGEL.  
SAGE BRUSH AND WEED CUTTER.  
APPLICATION FILED JULY 26, 1909.

939,595.

Patented Nov. 9, 1909.  
2 SHEETS—SHEET 1.



Witnesses

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Fig. 13

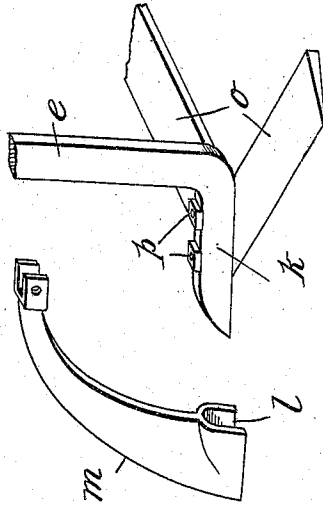


Fig. 5.

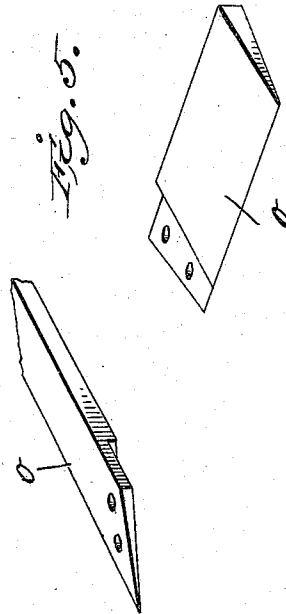


Fig. 2.

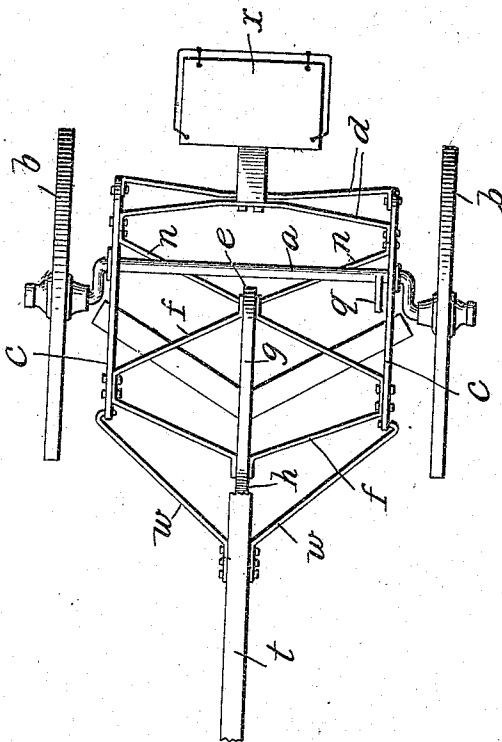
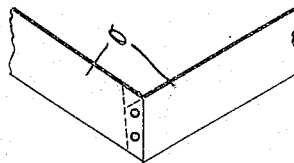


Fig. 4.



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# UNITED STATES PATENT OFFICE.

HENRY ETHEN GALE AND ERNEST EMIL KRENGEL, OF TWIN FALLS, IDAHO.

SAGE-BRUSH AND WEED CUTTER.

939,595.

Specification of Letters Patent.

Patented Nov. 9, 1909.

Application filed July 26, 1909. Serial No. 509,490.

*To all whom it may concern:*

Be it known that we, HENRY ETHEN GALE and ERNEST EMIL KRENGEL, citizens of the United States of America, residing at Twin Falls, in the county of Twin Falls and State of Idaho, have invented certain new and useful Improvements in Sage-Brush and Weed Cutters, of which the following is a full and clear specification, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective view of our device; Fig. 2 is a plan view, the adjusting lever and its rack and the platform being removed and the rear of the tongue being broken away; and, Figs. 3, 4 and 5 are detail views.

Our invention relates to improvements in wheeled cutters and it is especially adapted for cutting sage-brush and weeds.

The object of the present invention is to provide means for elevating and depressing the cutting blades and for tilting the blades, as more fully hereinafter set forth.

Referring to the drawings by reference letters, *a* designates the crank-axle which is supported by the wheels *b*. Pivotally supported upon the crank-portion of the axle *a* are side beams *c* connected at their rear by the braces *d*, and located centrally between these beams is the cutter-standard *e* which is held in position by the braces *f* which connect it with the side beams *c*. The cutter-standard *e* is formed at its top with a forwardly-extending horizontal portion *g* and a depending extension *h* provided with holes *i* for the reception of a clevis *j*, this depending portion forming the draft-bar.

The lower end of the cutter-standard is provided with a forwardly-extending foot *k* the nose of which is adapted to fit into a socket *l* of a vertical cutter *m*, as clearly shown in Fig. 3. The cutter *m* is formed of an upwardly and rearwardly extending curved blade having a forked upper extremity to embrace the standard *e* and to be secured thereto. The standard *e* is braced at this point by the braces *n* which extend rearwardly and are connected to the side beams *c*.

To the lower side of the foot *k* are secured the shear-cutters *o* by means of bolts *p*, said shears extending rearwardly and outwardly in the form of a V, their front ends being recessed and lapped whereby the bolts *p* can pass through the ends of both shears. The

rear ends of the shears are supported by extensions of the side beams which curve downwardly and are bolted thereto.

The side beams *c* and the cutter-standard *e*, as formed and connected together, form a rigid frame which is pivotally mounted upon the axle. To regulate its vertical adjustment the axle is provided with an arm *q* connected through a link to a crank-lever *r* which is pivoted to the adjacent side beam, said lever being provided with the usual locking-bolt which engages a toothed segment *s*.

A tongue *t* is provided which is pivoted at *u* to the portion *g* of the cutter-standard and is adjustably secured to the portion *h* thereof by the bracket *v*, said tongue being also pivoted to the side beams *c* by the brace rods *w*. A seat *x*, mounted upon a spring support, is secured between the braces *d*, and a foot-rest or platform rests upon said braces and the braces *f* and is secured thereto.

From the foregoing description the operation of the device is believed to be obvious. The vertical cutter will cut and separate the bed of weeds and the shears will level them to the ground.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is:—

1. A cutter comprising a pivoted frame embodying side beams and a cutter-standard, the cutter-standard being provided with a draft-bar, vertical and horizontal blades secured to the standard, and means for vertically adjusting said frame.

2. A cutter comprising a pivoted frame embodying side beams and a cutter-standard provided with a draft-bar, vertical and horizontal blades secured to the standard, said side beams extending downwardly to support the rear ends of the horizontal cutters, and means for vertically adjusting said frame.

3. A cutter comprising a pivoted frame embodying side beams and a cutter-standard braced apart, the cutter-standard being formed at its upper end into a horizontal portion and a depending forward portion forming a draft-bar, vertical and horizontal blades secured to the standard, and means for vertically adjusting the pivoted frame.

4. A cutter comprising a pivoted frame embodying side beams and a cutter-standard braced apart, the cutter standard being formed at its upper end into a horizontal portion and a depending forward portion

forming a draft-bar, and its lower end being formed into a forwardly extending foot, vertical and horizontal blades secured to the foot of the standard, and means for vertically adjusting the pivoted frame.

5 5. A cutter comprising a pivoted frame embodying side beams and a cutter-standard, the cutter-standard being formed at its upper end into a horizontal portion and a  
10 depending forward portion forming a draft-bar, a tongue pivoted to the cutter-standard and side beams, means for adjusting the tongue vertically, vertical and horizontal  
15 cutters secured to the standard, and means for vertically adjusting the pivoted frame.

6. A cutter comprising a pivoted frame embodying side beams and a cutter-stand-

ard, braces for securing the cutter-standard to the side beams, braces for securing the rear of the side beams together, a seat secured between said braces, the cutter standard being formed with a draft-bar, vertical and horizontal cutters secured to the standard, and means for vertically adjusting the pivoted frame.

In testimony whereof we hereunto affix our signatures in the presence of two witnesses this 14<sup>th</sup> day of July 1909.

HENRY ETHEN GALE.  
ERNEST EMIL KRENGEL.

Witnesses:

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