

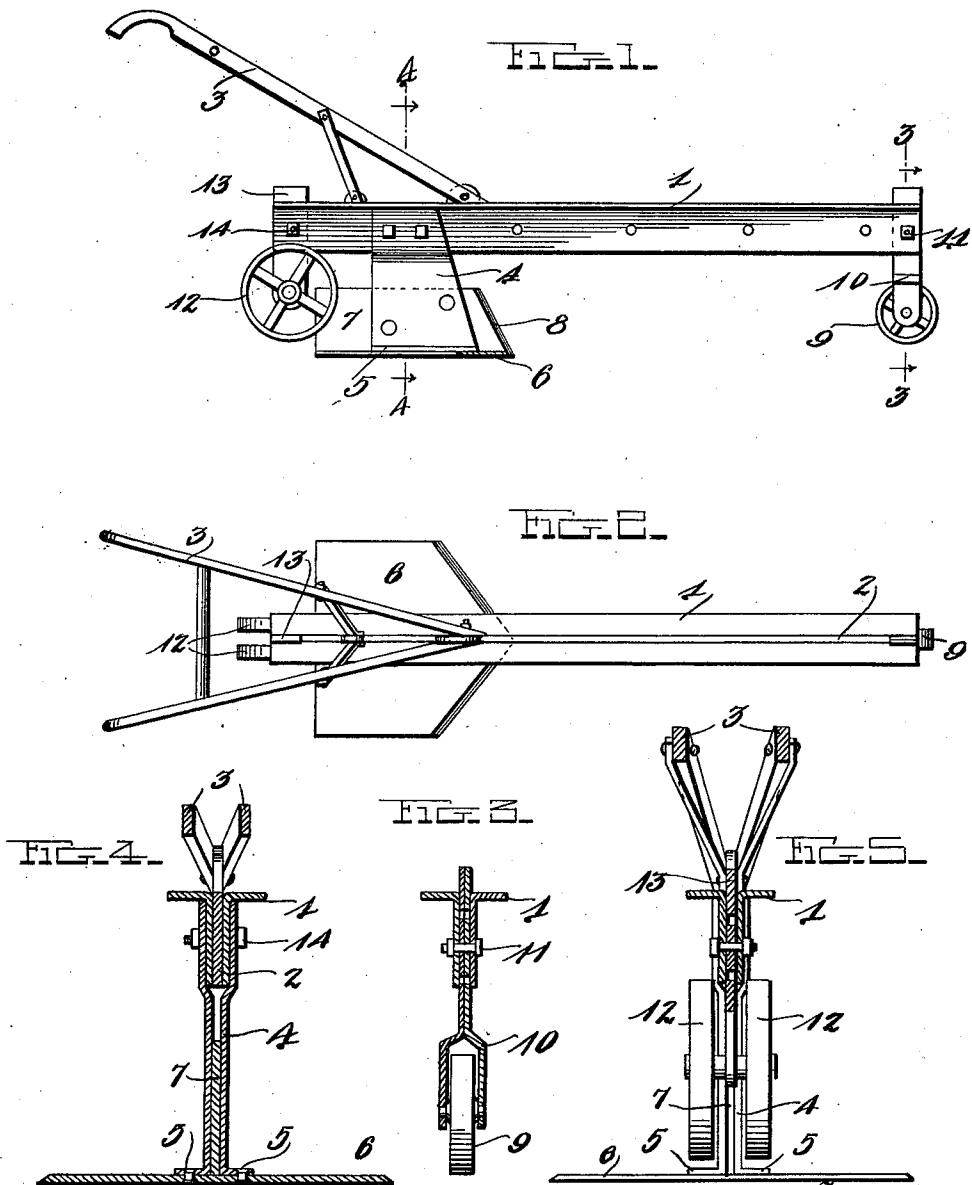
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GRUB PLOW.

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UNITED STATES PATENT OFFICE.

ELI J. GARDNER AND DAVID ODEM, OF SINTON, TEXAS.

GRUB-PLOW.

1,000,507.

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To all whom it may concern:

Be it known that we, ELI J. GARDNER and DAVID ODEM, citizens of the United States, residing at Sinton, in the county of San Patricio and State of Texas, have invented certain new and useful Improvements in Grub-Plows; and we do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in grub plows.

One object of the invention is to provide a plow of this character having an improved construction and arrangement of share and cutter and improved means for adjustably supporting these parts whereby the same will enter the ground to a greater or less depth as described.

A further object is to provide a plow of this character which will be simple, strong, durable in construction, efficient in operation and which is particularly adapted for grubbing and cutting out roots.

With these and other objects in view, the invention consists of certain novel features of construction, combination and arrangement of parts as will be more fully described and particularly pointed out in the appended claims.

In the accompanying drawings: Figure 1 is a side view of a grub plow constructed in accordance with our invention; Fig. 2 is a plan view of the same; Fig. 3 is a vertical cross section on the line 3—3 of Fig. 1; Fig. 4 is a similar view on the line 4—4 of Fig. 1. Fig. 5 is a rear view partly in section.

Referring more particularly to the drawings, 1 denotes the beam of our improved plow, said beam being preferably constructed of two angle iron bars bolted together and having arranged between the same a spacing bar or plate 2. To the rear portion of the beam are secured in any suitable manner, handles 3 whereby the plow is guided and controlled. To the rear portion of the beam is also bolted a plow standard 4, said standard comprising a pair of heavy metal plates of suitable width and length, said plates preferably having their front edges inclined or formed on an angle as shown. The upper ends of the plates are bent outwardly or offset to a slight extent and said offset portions engaged with the opposite

sides of the beam to which the same are riveted or otherwise rigidly secured. The lower ends of the plates forming the standard are bent laterally at right angles to form attaching flanges 5 to which is riveted or otherwise rigidly secured a center draft double share 6. The share 6 may be of any suitable size and the front end of the same is cut or formed at angles from the center rearwardly to the opposite side edges thereby forming the point and the right and left hand members of the double share.

The plates forming the standard 4 are spaced a suitable distance apart to receive a cutting blade 7 which is in the form of a vertically disposed plate having its lower edge engaging the upper surface of the share between the plates of the standard. The blade 7 is bolted or otherwise secured to the plates of the standard 4 as shown. The forward end of the blade 7 is beveled or formed on an angle as shown to form a cutting edge 8 whereby roots and vines will be readily severed when the blade is brought into engagement therewith thus permitting the share to more readily pass through the soil. The share in passing through the soil will sever the vertical roots and stalks of weeds below the surface of the ground, thus destroying the same.

Arranged at the front end of the beam is a gage wheel 9, said wheel being revolubly mounted in the lower end of a standard 10, said standard being preferably formed of two metal plates or bars spaced apart and having in their upper ends a series of alined bolt holes. The upper ends of the standards are inserted between the ends of the bars forming the beam and are adjustably connected therewith by a fastening bolt 11, which is inserted through the beams and through the bolt holes formed in the plates of the standards. By thus adjustably connecting the standards to the beam the gage wheel may be adjusted to the desired position for causing the point of the plow share to enter the ground to the desired depth. The rear edges of the plates forming the standard 10 where the same pass between the bars of the beam engage the forward end of the spacing plate or bar 2, said end of the bar together with the bolt 11 holding the standard in a vertical position.

At the rear end of the plow are arranged a pair of gaging and spacing wheels 12, said

wheels being spaced a suitable distance apart and arranged on opposite sides of a supporting standard 13 to which they are revolubly secured. The upper end of the standard 13 is inserted between the rear ends of the bars forming the beam and said upper end of the standard is provided with a series of bolt holes through which and the adjacent portions of the bars forming the beam is inserted a fastening bolt 14 whereby the wheels are adjustably supported on the standard. When thus arranged the rear end of the cutting blade 7 projects between the forward portions of the wheels 12 as shown.

15 From the foregoing description taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

20 Various changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of the invention as defined in the appended claims.

25 Having thus described our invention what we claim is:

1. A plow of the character described comprising a beam, a standard secured to the rear end of the beam, a flat double share plow blade secured to the lower end of said standard, a vertical cutting blade arranged within the standard and engaged with said blade, a gage wheel adjustably connected to the forward end of the beam and gaging and

spacing wheels adjustably connected to the rear end of said beam.

2. A plow of the character described comprising a beam consisting of two angle iron bars bolted together and having arranged between the same a spacing bar, a plow standard comprising a pair of metal plates spaced apart and secured at their upper ends to the opposite sides of said beam, said standard plates having their lower ends bent outwardly to form right angular attaching flanges, a flat double share plow blade secured to the flanged lower ends of said standard plates, said plow blade having its forward edges inclined from the center toward the sides thereby forming the point of the plow, a cutting blade arranged between and secured to said standard plates, said blade having its forward end inclined to form a cutting edge, a gage wheel standard adjustably secured between the forward ends of the beam bars, a gage wheel revolubly mounted in the lower end of said last mentioned standard, and a pair of gaging and spacing wheels revolubly mounted on the rear end of said beam.

In testimony whereof we have hereunto set our hands in presence of two subscribing witnesses.

ELI J. GARDNER.
DAVID ODEM.

Witnesses:

JAS. G. COOK,
STEVE J. LEWIS.

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