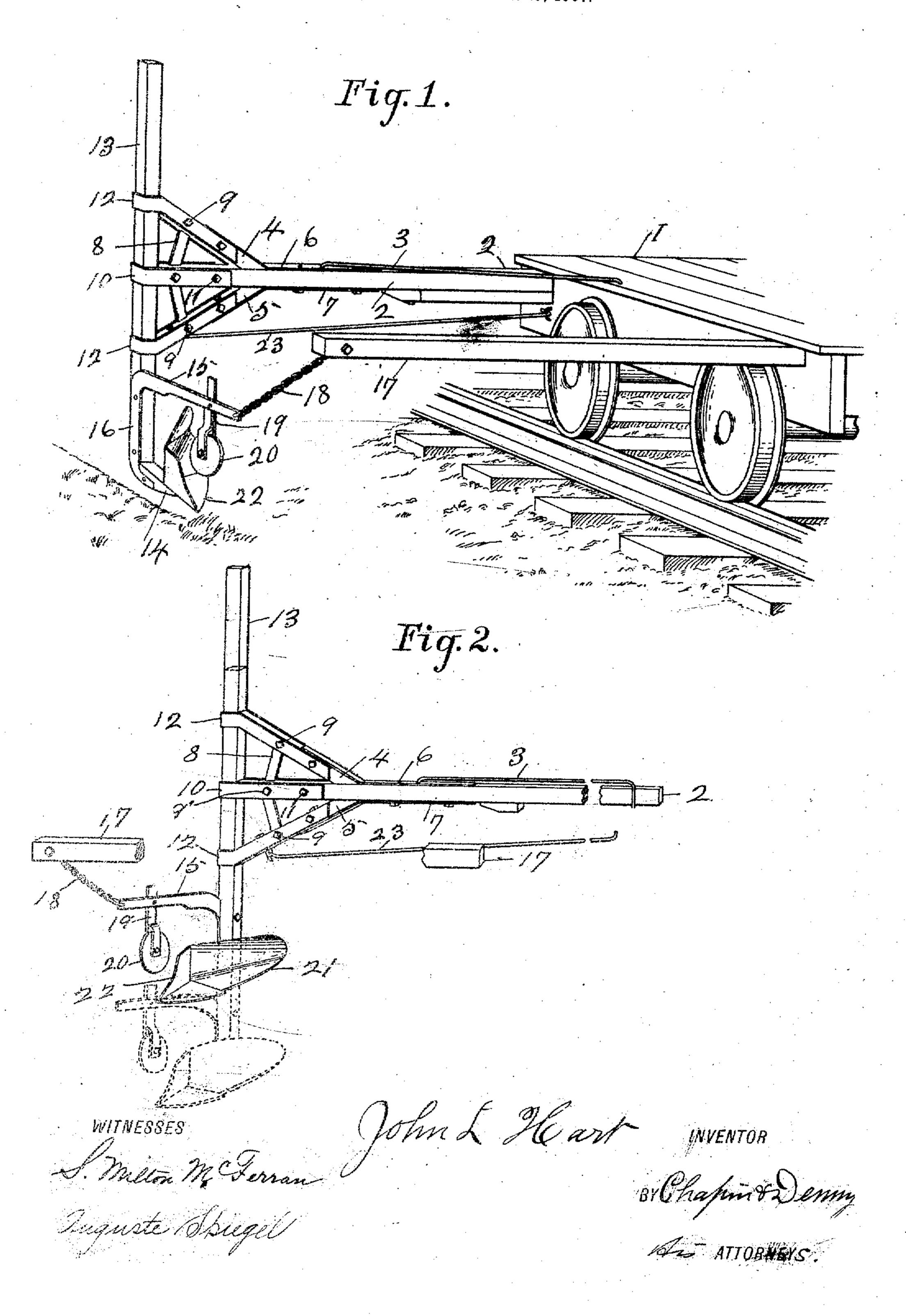
## J. L. HART. SOD LINE PLOW. APPLICATION FILED AUG. 15, 1907.



## STATES PATENT OFFICE.

JOHN L. HART, OF VALENTINE, INDIANA.

SOD-LINE PLOW.

No. 885,341

Specification of Letters Patent.

Patented April 21, 1908.

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To all whom it may concern:

Be it known that I, JOHN L. HART, a cititine, in the county of Lagrange, in the State s of Indiana, have invented certain new and useful Improvements in Sod-Line Plows; and do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the 10 art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to improvements in

is sod line plows.

It is well known that on all railways on both sides of the track, a space about 5 feet in width measured from the railway rails, is kept free from grass and weeds, and that the 20 outer line of this space is known as the "sodhhe"; that is it is desirable to have this line practically straight or at least parallel with the track; that the common if not universal way of cutting this "sod-line" is by stretch-25 ing a line parallel with the track and then using hand-shovels; and that to cut the sodline for one mile of track upon both sides thereof in the common way by hand-shovels requires the labor of four men for two days or 30 more.

The object of my invention is to provide a comparatively cheap, simple, convenient and easily operated labor-saving sod-line plow, adapted to be carried by a common hand-car 35 or push-car, and adapted for a vertical adjustment thereon, so constructed as to throw the dirt away from the line and so arranged that three men in less than one hour can cut the sod-line upon both sides of one mile of

so track.

My invention consists of a supporting frame detachably mounted in one side of a push-car of common form; a vertical standard adjustably mounted in the outer end of said standard and provided upon its lower end with a plow having a special form of plowshare; and means connected to the plowbeam for aiding in the propulsion of the plow.

The principal novel feature of my inven-50 tion resides in the special construction of the plow and its coöperative relation with the beam is secured one end of the draft chain

push-car. Similar reference numerals indicate like cured to the forward end of the plow beams 15.

tion in position upon a push-car, showing the relative arrangement of the operative parts. zen of the United States, residing at Valen- | Fig. 2 is a perspective detail of my invention partly broken away, and showing by dotted out-line the vertical adjustment of the plow 60 and its supporting standard in the main

frame.

In a suitable lateral opening in one side of a push-car 1 of common form is removably mounted the inner end of the supporting frame 65 2, and is secured therein by means of the horizontal rod 3 having one end thereof bent into a right-angular relation and loosely secured in a vertical opening in the upper face of the said frame, and having its similarly bent 70 other end loosely secured in a suitable yertical opening in the top of the car, Fig. 1. The outer end of this main frame 2 is provided upon its upper end and lower faces with the oppositely inclined arms 4 and 5 75 rigidly fixed thereto by means of the metal straps 6 and 7 respectively. These arms are further braced and connected with the frame 2 by means of the metal strap 8 secured to one side thereof by proper bolts 9.

The free end of the beam 2 is provided with a metal strap 10 secured thereto by the bolts 9 and 11. This strap projects beyond the end of the beam in the form of a loop as shown to receive the upright standard about 85

to be described.

The outer ends of the arms 4 and 5 are each provided with a metal strap 12 having a loop on the end thereof each of which is in vertical alinement with the loop of the strap 90 10. In these loops is loosely mounted the vertically arranged standard 13 carrying upon its lower end a special form of plow of proper proportions, consisting of a slightly inclined forwardly projecting foot 14 rigidly 95 mounted on the lower extremity of the said standard, Fig. 1; a metallic forwardly projecting beam 15 whose rear end 16 is downwardly inclined in a right angular relation and rigidly secured to the standard 13 and 100 the foot 14 in any proper manner.

In a second lateral opening in the side of the car 1 the inner end of the horizontal beam 17 is detachably mounted in any proper manner. To the outer end of this 105 18, the other end of which is detachably se-

parts throughout the drawings, in which hear the forward end of he plow beam 15 figure 1 is a perspective view of my invenis fixed a hanger 19 in whose bifurcated 110

lower end is rotatably mounted a wheel or | length upon one side of the track in less than roller 20 adapted to run upon the surface of | half an hour. the ground gage the depth of the furrow as | usual.

On the upper face of the shoe 14 is rigidly fixed the metallic plow-share 21, troughshaped in cross-section in order to throw the and is provided with a rigidly connected tive relation with a supporting hand-car. 10 point 22 whose upright side is in substan-, tially right-angular relation to its lower side as shown.

The outer end of the frame 2 is stayed 15 by means of the rod 23 whose outer end is pair of guide arms and having its inner end

The operation and manner of employing arms; a plow fixed upon the lower end of the 65 my invention thus described is obvious and said standard; as draft-bar mounted at its co briefly stated is as follows: When my in-, inner end in the said support and having a vention is placed in position upon the car 1 suitable draft connection with the said plow. inner ends detachably mounted in the side 25 of the car as shown, and the standard 13 | being loosely mounted in its bearings will ! normally rest upon the ground by gravity.

To operate the invention one or two men walk at the rear side of the beam 2 and push ! 30 upon the same with their hands, one of the with the said bar. men resting one of his hands upon the top of 3. The combination with a rolling sup-40 as desired to suit the vertical adjustment of ling the draft-bar to the plow. the plow. I have also successfully used one. Signed by me at Valentine, in the county beam 17, the driver walking at the rear of | day of August, A. D. 1907. the beam 2 with one band upon the top of 45 the standard 13, though as a rule, three section men can operate it more economically, ? and can readily cut a sod-line one mile in

Obviously my invention can be variously 50 modified in numerous details of construction without departing from the spirit thereof. which consists broadly in the cooperative combination of a sod-line plow adjustably excavated material away from the sod-line, ! mounted in a supporting frame in coopera- 55

> Having thus described my invention and the manner of operating the same what I desire to secure by Letters Patent is:

1. A sod-line plow consisting of a support- 60 against the lateral strain of the draft thereon ing frame provided upon its outer end with a secured to the arm 5 and whose inner end is mounted in a moving support; a vertical secured to the adjacent side of the car I. . . . ! standard loosely mounted in the said guide-

the beams 3 and 17 will be in a horizontal; 2. A sod-line plow consisting of a horizonposition and in parallel relation with the tal frame provided at its outer end with 70 alined vertical guides for the plow standard; a vertical standard loosely mounted in the said guides and provided upon its lower end with a fixed plow beam and share; a draft-

bar in subtantially parallel relation with the 75 said frame and having a draft connection

the standard 13 to hold the plow-share to its; port of a sod-line plow consisting of a horiwork, which only cuts about four inches zontal frame mounted at its inner end on 80 deep, and generally in gravelly soil. A third said support; and provided at its outer end 35 man walks between the beams 2 and 17 and with vertical guides; a plow carrying standpushes upon the latter beam which through hard loosely mounted in the said guides and the medium of the draft-chain 18 aids in the provided upon its lower end with a suitable operating of the plow. The chain 18, of plow; a draft-bar in cooperative relation 85 course can readily be lengthened or shortened; with the said frame; and means for connect-

draft-horse by hitching him to the forward of Lagrange, and State of Indiana, this 10th

JOHN L. HART.

Witnesses: W. H. Duff, JACOB NETMAN.