

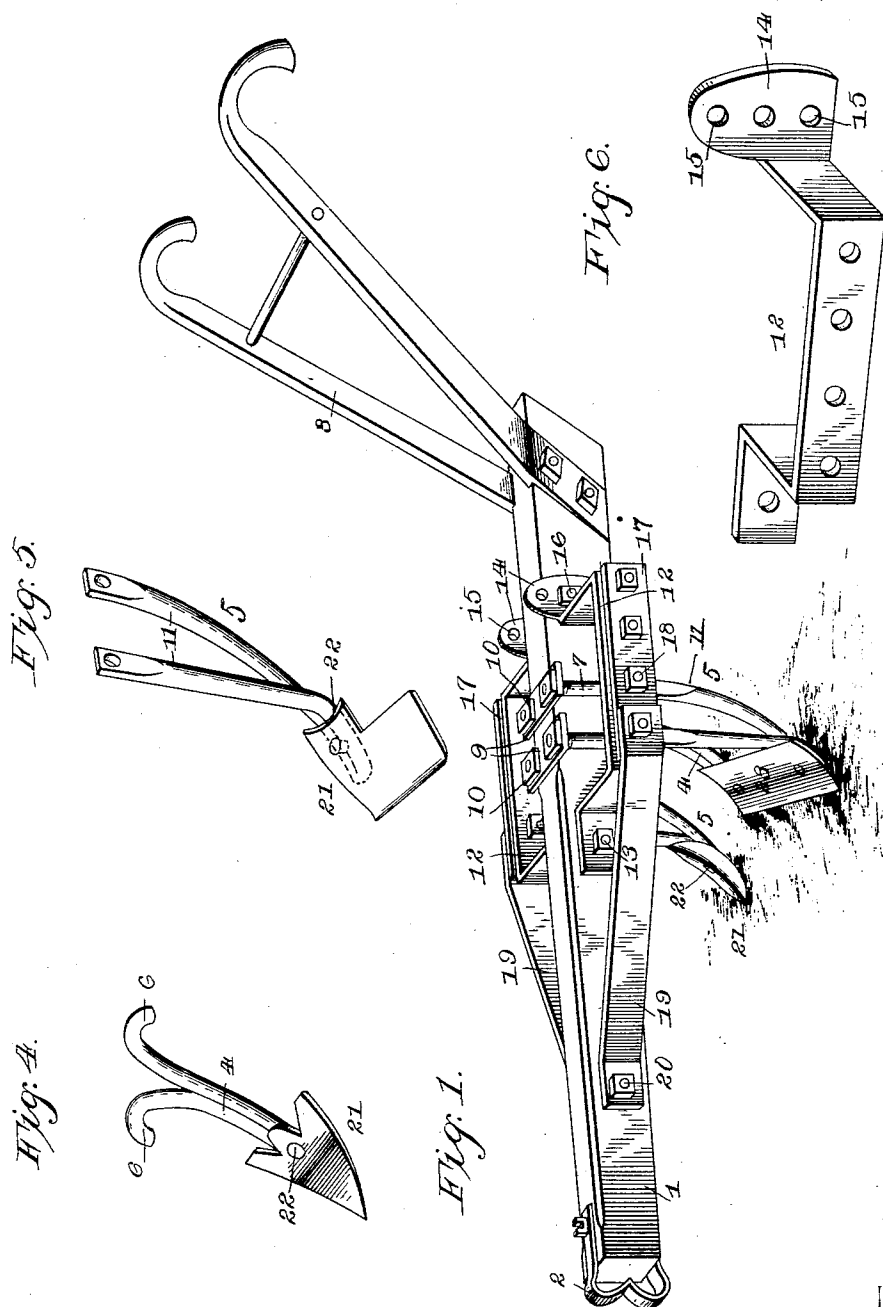
(No Model.)

2 Sheets—Sheet 1.

D. S. RULEY.
PLOW.

No. 541,252.

Patented June 18, 1895.



Inventor
Daniel S. Ruley,

Witnesses

Charles Ford.
J. F. Riley

By his Attorneys.

C. A. Snow & Co.

(No Model.)

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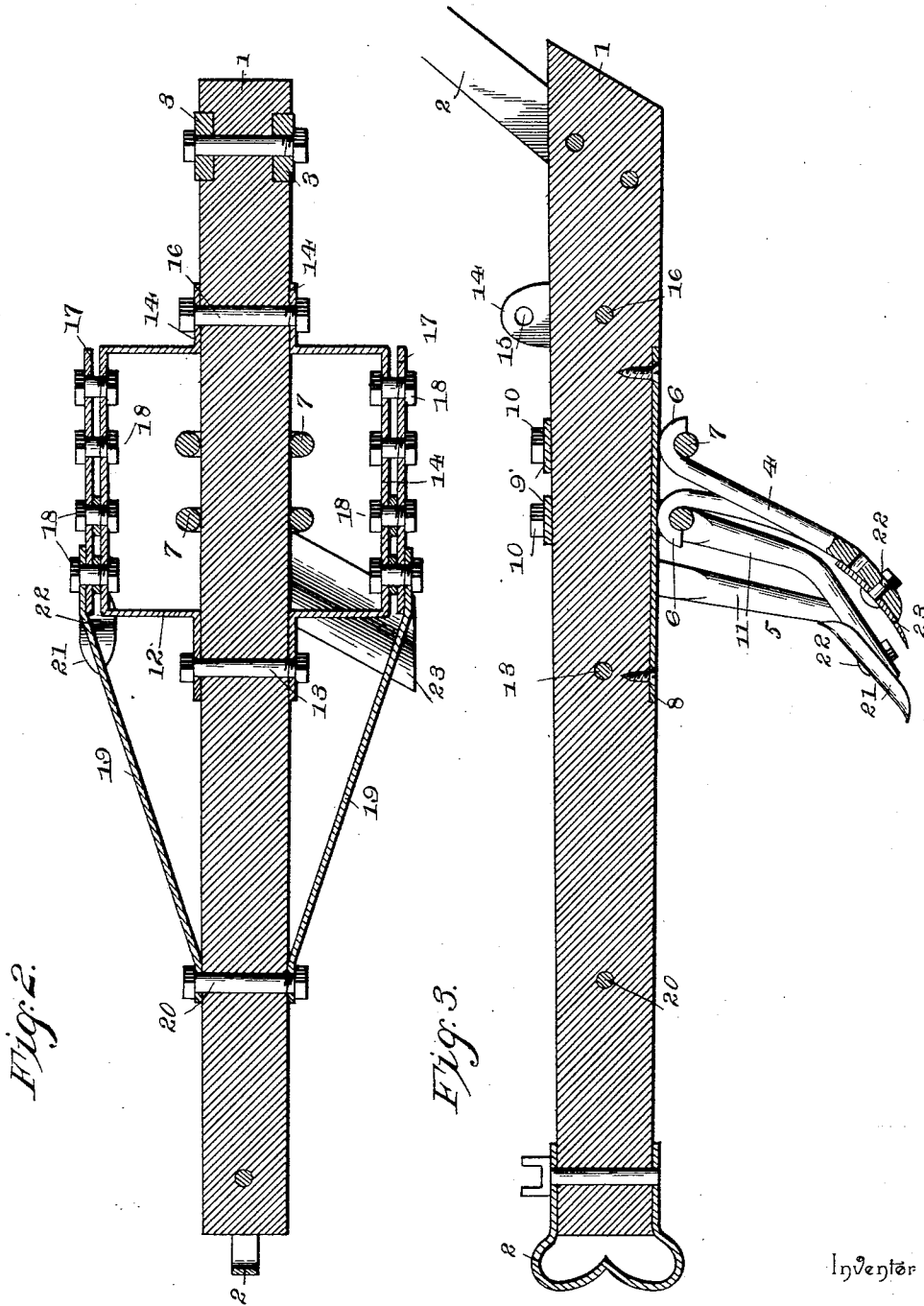


Fig. 2.

Fig. 3.

Witnesses

Chas. A. Ford.
S. J. Riley

By his Attorneys.

Daniel S. Ruley

C. A. Snow & Co.

UNITED STATES PATENT OFFICE.

DANIEL S. RULEY, OF BENTON, KENTUCKY.

PLOW.

SPECIFICATION forming part of Letters Patent No. 541,252, dated June 18, 1895.

Application filed March 28, 1894. Serial No. 505,458. (No model.)

To all whom it may concern:

Be it known that I, DANIEL S. RULEY, a citizen of the United States, residing at Benton, in the county of Marshall and State of Kentucky, have invented a new and useful Plow, of which the following is a specification.

The invention relates to improvements in plows.

The object of the present invention is to simplify and improve the construction of plows, and to provide one which will be adapted for scraping cotton, tobacco, potatoes, &c., and which may be readily adjusted to regulate the depth of its shovels and scraper-blade.

A further object of the invention is to effect such an adjustment without changing the harness, and to enable one shovel to be arranged at a different depth from the others.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

In the drawings, Figure 1 is a perspective view of a plow constructed in accordance with this invention. Fig. 2 is a horizontal sectional view of the same. Fig. 3 is a vertical longitudinal sectional view. Fig. 4 is a detail perspective view of the center standard. Fig. 5 is a similar view of one of the side standards. Fig. 6 is a detail perspective view of one of the rectangular side frames.

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

1 designates a plow-beam, provided at its front end with a clevis 2, and having at its rear end handles 3, and carrying a longitudinally-adjustable center standard 4, and similar opposite adjustable side standards 5. The center standard 4 depends from beneath the beam and is provided, at its upper end, with forwardly and rearwardly disposed hooks 6, which are engaged by a pair of rectangular clips 7, embracing the beam in front and in rear of the standard 4. The standard, which may be constructed of any suitable material, is preferably made of round metal. The upper faces of the hooks are slightly flattened, and a wear-plate 8 is secured to the lower face of the beam to protect the latter. The rectangular clips 7 have their sides arranged at op-

posite sides of the beam and threaded and connected at their upper ends by tie or clip plates 9, which are secured on the ends of the sides of the clips by nuts 10. By loosening the nuts and moving the clips along the beam the center standard may be arranged at any desired point on the beam and be secured firmly at the desired adjustment.

The side standards are constructed of metal similar to the center standard, and each is composed of front and rear portions 11, flattened at their tops, and offset from the beam by a rectangular frame 12.

A rectangular frame 12 is arranged at each side of the beam. It has its front end extended and perforated and pivoted to the beam by a transverse bolt 13, which serves as a pivot for both of the rectangular frames. The rear end of the rectangular frame is provided with a vertical flange 14, having a vertical series of perforations 15, and adapted to be adjusted vertically to raise and lower the side standards; and both rectangular frames are secured in their vertical adjustment by a rear transverse bolt 16.

The upper flattened portions of the front and rear branches of the side standards are secured between the outer portion of the rectangular frame and an attachment plate 17, by bolts 18, which pass through the perforations of the side standards and corresponding perforations of the attachment plate, and that portion of the rectangular frame that is parallel with the beam; and series of perforations are provided, in the frame and the attachment plate, to effect a longitudinal adjustment of the side standards.

The rectangular frames are supported and braced by forwardly-converging horizontally-disposed bars 19, which have their rear ends secured to the rectangular frames by the front bolts thereof; and the front ends of the brace-bars are secured to opposite sides of the beam near the front end thereof by a transverse bolt 20.

Shovels 21 may be secured to each of the standards by means of bolts 22, if desired, or other forms of shovels may be employed; and a scraper-blade 23 is adapted to be secured at its inner end to the center standard, and at its outer end to one of the outer standards. It is arranged at an angle, and it is adapted

for scraping corn, cotton, tobacco, and the like. The inclination and the depth of the blade 23 may be readily changed as desired to adapt it for hilling, and it may be readily
5 transferred from one side of the plow to the other, and it may have either of its ends arranged in advance and elevated or depressed.

It will be seen that the plow is simple and comparatively inexpensive in construction,
10 that it possesses great strength and durability, and that the shovel may be readily adjusted and regulated as desired. It will also be seen that the vertical adjustment of the rectangular frames and the transverse bolt
15 13 permits the depths of the shovels to be readily changed without altering the harness and the connection thereof to the front end of the beam.

Changes in the form, proportion, and the
20 minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

What I claim is—

25 1. In a plow, the combination of a beam, a standard depending therefrom and capable of adjustment longitudinally of the same, a frame secured to one side of the beam and offset therefrom, a side standard depending
30 from the frame and capable of adjustment

longitudinally thereof, and a blade secured to said standards and carried by the same, whereby it is capable of forward and rearward adjustment bodily, and of having either
35 end advanced or moved rearward, substantially as described.

2. In a plow, the combination of a beam, a central standard depending therefrom and capable of longitudinal adjustment thereon, the side frames rectangular in form and offset from opposite sides of the beam and having their front terminals pivoted thereto, the rear ends of the frames being provided with vertical flanges adjustably secured to opposite sides of the beam to raise and lower the
40 45 frame, the side standards depending from said frames and capable of longitudinal adjustment thereon, blades carried by the standards and adjustable therewith, and the opposite angularly disposed braces having their
50 front terminals secured to the beam, and their rear terminals connected to the frames, substantially as described.

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

DANIEL S. RULEY.

Witnesses:

V. A. STILLEY,
J. M. DAVIS.