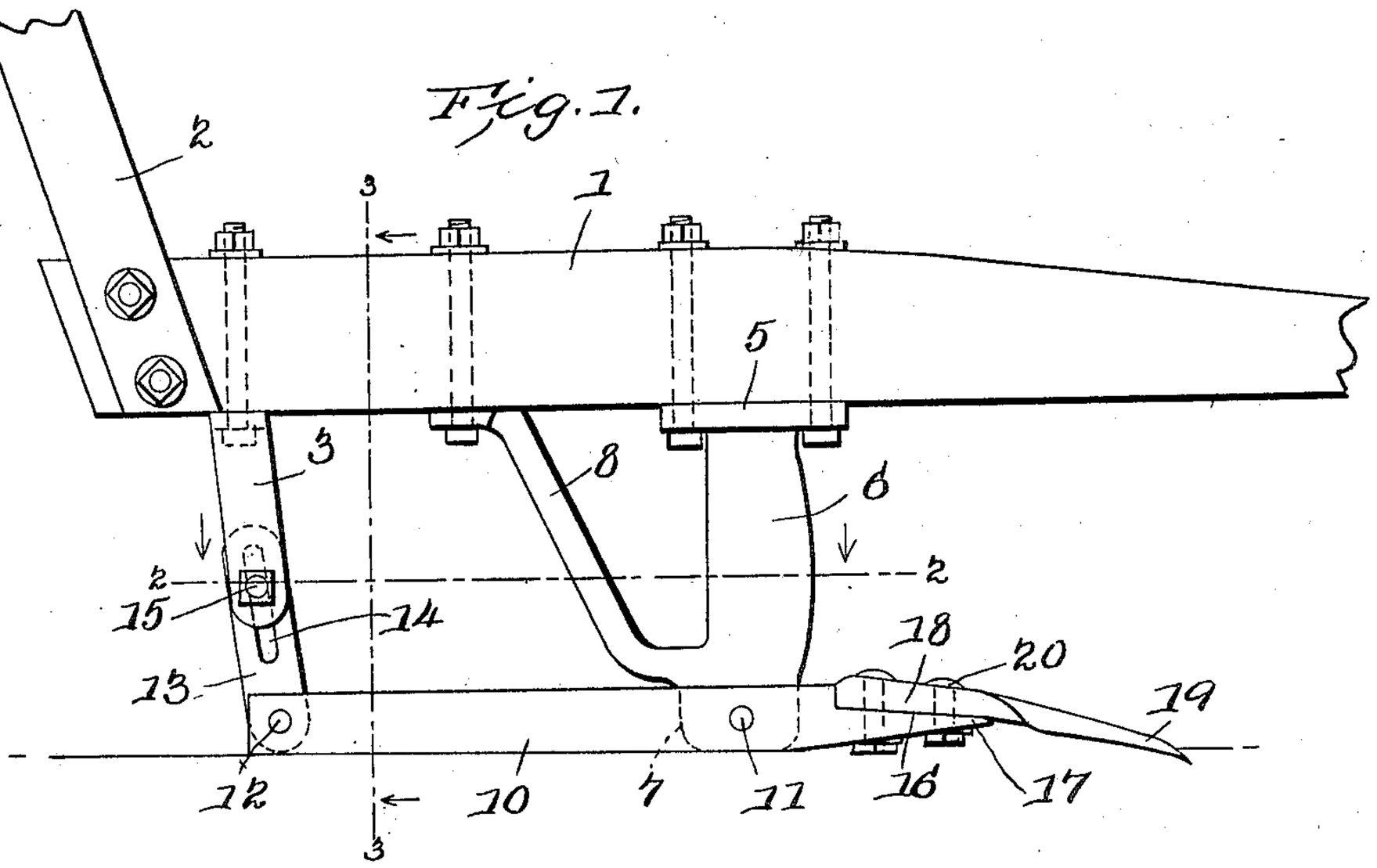
No. 827,650. PATENTED JULY 31, 1906.

W. H. McDONALD.

PLOW.

APPLICATION FILED MAY 5, 1906.

Fig. 1.



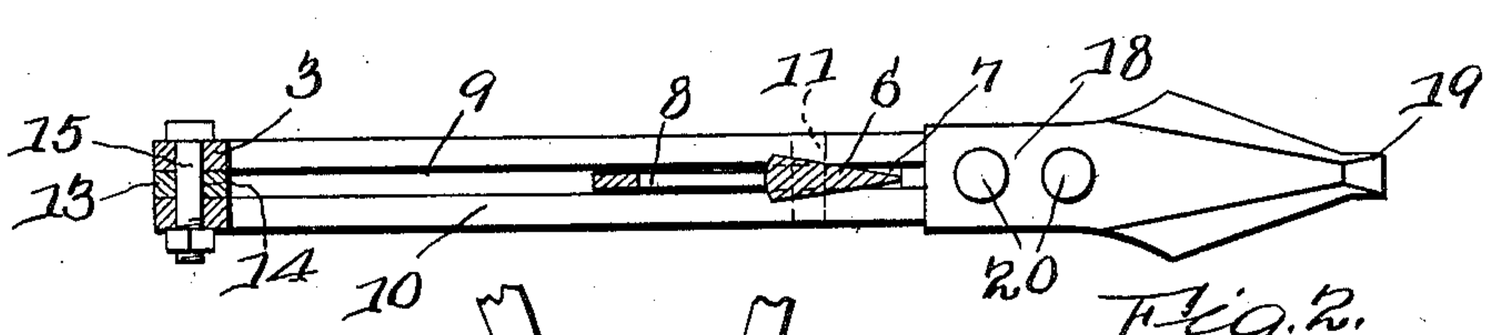
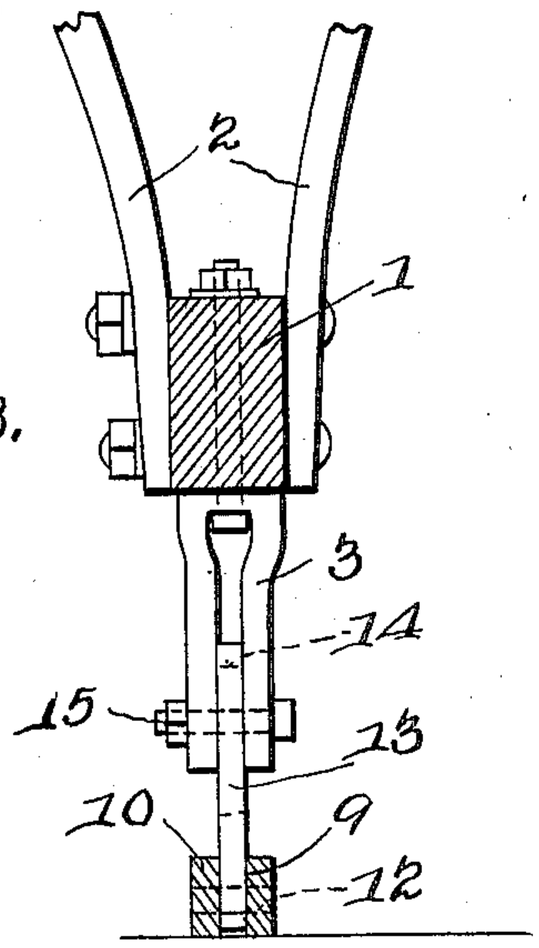


Fig. 2.

Fig. 3.



William H. McDonald,
INVENTOR.

WITNESSES:

E. F. Stewart

Hubert D. Lawson.

By Church & Co.
ATTORNEYS

UNITED STATES PATENT OFFICE.

WILLIAM H. McDONALD, OF TALMO, GEORGIA, ASSIGNOR OF ONE-HALF TO JAMES W. A. DAVIS, OF TALMO, GEORGIA.

PLOW.

No. 827,650. Specification of Letters Patent. Patented July 31, 1906.

Application filed May 5, 1906. Serial No. 315,328.

To all whom it may concern:

Be it known that I, WILLIAM H. McDONALD, a citizen of the United States, residing at Talmo, in the county of Jackson and State of Georgia, have invented a new and useful Plow, of which the following is a specification.

This invention relates to subsoil-plows; and its object is to provide a device of this character having novel means for connecting the point to the beam whereby the point of the plow can be adjusted to a desired angle in relation to the beam.

A still further object is to provide a connection between the runner and beam of the plow which will cut into the soil and spread it laterally after it has been acted upon by the point.

With the above and other objects in view the invention consists of a longitudinally-slotted runner having a point detachably secured to one end thereof, while extending from the other end of the runner is a connecting-link adjustably secured between hangers extending from the beam. A knife-like standard connects the runner and beam close to the rear end of the point.

The invention also consists of certain other novel features of construction and combinations of parts, which will be hereinafter more fully described, and pointed out in the claim.

In the accompanying drawings is shown the preferred form of the invention.

In said drawings, Figure 1 is a side elevation. Fig. 2 is a section on line 2 2, Fig. 1; and Fig. 3 is a section on line 3 3, Fig. 1.

Referring to the figures by characters of reference, 1 is a beam having handles 2 extending from one end. Depending from the beam close to the handles is a U-shaped hanger 3, which is preferably fastened to the beam by means of a bolt extending therethrough. A plate 5 is bolted or otherwise secured to the beam adjacent the center thereof and has a depending blade 6, the front edge of which is sharpened, while the rear edge is thickened, so that the blade is substantially wedge-shaped in cross-section. The lower end of the blade has an eye 7, and extending from the rear edge of the blade and adjacent the eye is a brace 8, which is bolted or otherwise fastened at its other end to the beam 1.

The eye 7 projects into a slot 9, formed longitudinally within a runner 10, said slot extending into the runner from its rear end and close to the front end thereof. A pivot-pin 11 extends through the runner 10 and eye 7, so that said runner can be rocked in relation to the blade 6, and another pivot-pin 12 connects the rear portions of the runner and extends through a link 13, which projects into hanger 3. A slot 14 is formed longitudinally within the link and receives a clamping-bolt 15, which extends through the hanger 3 and is adapted when tightened to clamp the hanger upon opposite faces of the link. The front portion of the runner is recessed in its upper face, as shown at 16, while its lower face is beveled, as at 17. Recess 16 receives the shank 18 of a plow-point 19, substantially in the form of a spear-head, and bolts 20 extend through shank 18 and the front portion of the runner for the purpose of detachably securing the point in place.

In using the plow the bolt 15 is loosened so as to permit the link 13 to slide in hanger 3, and therefore the runner 10 can be swung to any desired angle in relation to the beam. After the desired adjustment has been obtained the parts can be secured by tightening bolt 15. When the plow is drawn forward, the point 19 will cut into the subsoil and the raised soil will be contacted by blade 6, which will cut into and spread it laterally.

It will be seen that the plow is very simple and durable in construction and will effectively perform the function for which it is designed. The point can be readily removed in the event of wear or breakage.

The preferred form of the invention has been set forth in the foregoing description; but I do not limit myself thereto, as I am aware that modifications may be made therein without departing from the spirit or sacrificing the advantages thereof, and I therefore reserve the right to make such changes as fairly fall within the scope of the invention.

What is claimed is—

In a plow the combination with a beam; of a blade depending therefrom and immovably connected thereto, a brace integral with the lower portion of the blade and immovably secured to the beam, a longitudinally-slotted runner pivoted between its ends to the lower portion of the blade, the forward end of said runner having an upper recess and a beveled

lower face, a point secured within the recess and projecting beyond the beveled portion of the runner, a hanger immovably secured to the bottom in rear of the blade, and a longitudinally-slotted link pivoted within the rear portion of the runner and adjustably secured in the hanger.

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

WILLIAM H. McDONALD.

Witnesses:

EVELYN APPLEBY,

A. C. APPLEBY.