

July 12, 1927.

1,635,605

W. H. CHANCEY

FLOW ATTACHMENT

Filed June 22, 1925

Fig. 1.

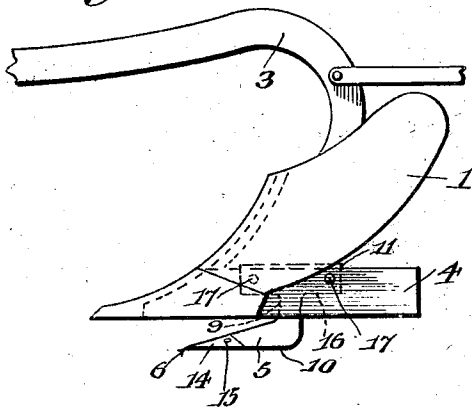


Fig. 2.

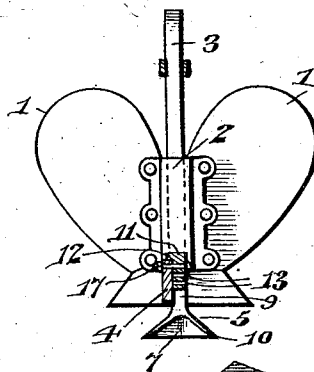
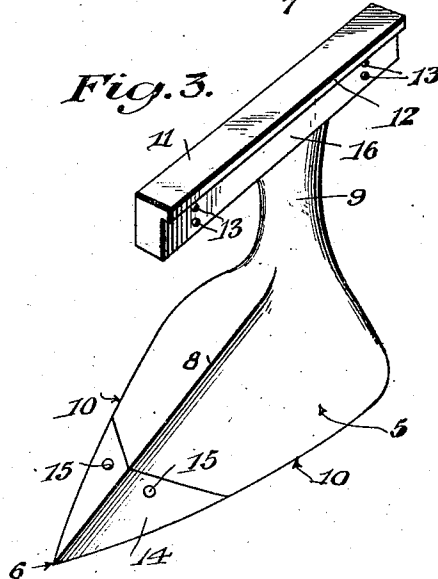


Fig. 3.



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UNITED STATES PATENT OFFICE.

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PLOW ATTACHMENT.

Application filed June 22, 1925. Serial No. 38,761.

This invention relates to subsoil attachment for plows.

The primary object of this invention is the provision, in a manner as hereinafter set forth of a subsoil attachment for plows, of both the landside and the middle buster type, and adapted to be adjusted vertically beneath the center of the plow, to loosen the soil a slight distance beneath the plow blade or for a considerable distance therebeneath as desired.

Another object of the invention is the provision, in a manner as hereinafter set forth, of a subsoil attachment for plows, having a removable and replaceable tip.

A further and final object of the invention is the provision, in a manner as hereinafter set forth, of a subsoiler attachment for plows which will be strong and durable, and quickly attachable and detachable and inexpensive to manufacture.

The invention will be thus understood from a consideration of the following detailed description taken in connection with the accompanying drawings forming a part of this specification, with the understanding that the invention is not confined to any strict conformity with the showing of the drawings but may be changed and modified so long as such changes and modifications mark no material departure from the salient features of the invention as expressed in the appended claim.

In the drawings:

Fig. 1, shows in side elevation the plow of the type known as a middle buster and having the device embodying this invention applied thereto and depending beneath the lower edge thereof.

Figure 2, shows a rear elevation of the plow shown in Figure 1, the central beam of the plow, and the top portion of the device embodying this invention being shown in cross section to show the manner of adjustably securing the device to the plow.

Figure 3, is a perspective view of the device embodying this invention, the structure here shown being intended for use in connection with the middle buster.

Referring now to the drawing in detail wherein like numerals of reference indicate corresponding parts throughout the several views, the description will first be confined to the showing of Figures 1, 2 and 3 and there is indicated by the numeral 1, mold

board of a middle buster plow, the same reinforced by the centrally positioned plate 2 from which there extends rearwardly beneath the lower portion the rudder beam 4. This structure is the usual middle breaker plow structure and embodies no part of the present invention.

The subsoil attachment embodying this invention and designed to be used in connection with the middle breaker plow, comprises an elongated tapering foot member indicated generally by the numeral 5, which foot tapers to a sharp point 6 at one end and is relatively broad at the opposite end thereof as shown clearly in Figure 3. The under side of this foot is slightly concave as indicated at 7, and from the point 6 there extends rearwardly along the longitudinal center of the foot, the upwardly inclined ridge 8, which merges at the rear with the upstanding neck portion 9 at the rear end of the foot. The two sides of the foot proper on either side of the ridge slope downwardly to a sharp side edge 10.

Extending across the top of and formed integral with the neck 9, is the head member 11 having formed along one side at the top thereof the overhanging flange 12 which runs the entire length of the head, and further having formed transversely there-through adjacent each end thereof a vertical series of apertures 13. As clearly shown in Figure 3 the head member 11 extends longitudinally of the foot 5 and the neck 9 joins the head at approximately the central part thereof.

The foot has the toe portion towards the end detachably held thereto by rivets or other appropriate means as indicated at 15 so that this toe may be replaced when it has become badly worn.

When the subsoiler just described is placed in position upon the middle breaker, the face 16 of the head 11 is placed against the side of the rudder 4 the flange 12 overlying the top edge of the rudder as shown in the sectional view in Figure 2. The apertures 13 in the head are then alined with the apertures formed in the rudder 4 and a securing bolt 17 is then passed through the head and the rudder to maintain the subsoiler in position thereon.

It will be seen that the foot can be adjusted vertically beneath the plows so that the ground may be worked a slight distance

below the edge of the plow or a substantial distance therebeneath as desired.

From the foregoing description it will be readily seen that there has been provided an improved type of plow subsoiling device which has the advantages of being vertically adjustable, and of a construction to enable it to pass through the ground with the least possible amount of resistance.

10 Having thus described my invention what I claim is:—

15 A sub-soiler attachment for plows, comprising a substantially triangularly shaped foot, a vertically extending neck formed integrally therewith remote from the pointed

end, a head comprising a straight beam, fixed intermediate its ends to the top of said neck and extending parallel with and above the longitudinal center of said foot, said head having a longitudinally extending laterally projecting flange along the top of one side thereof, for engagement over a rudder beam of a plow, and means formed in said head whereby securing elements may be employed to fix said head to said rudder beam.

In testimony whereof, I affix my signature hereto.

WILLIAM H. CHANCEY.