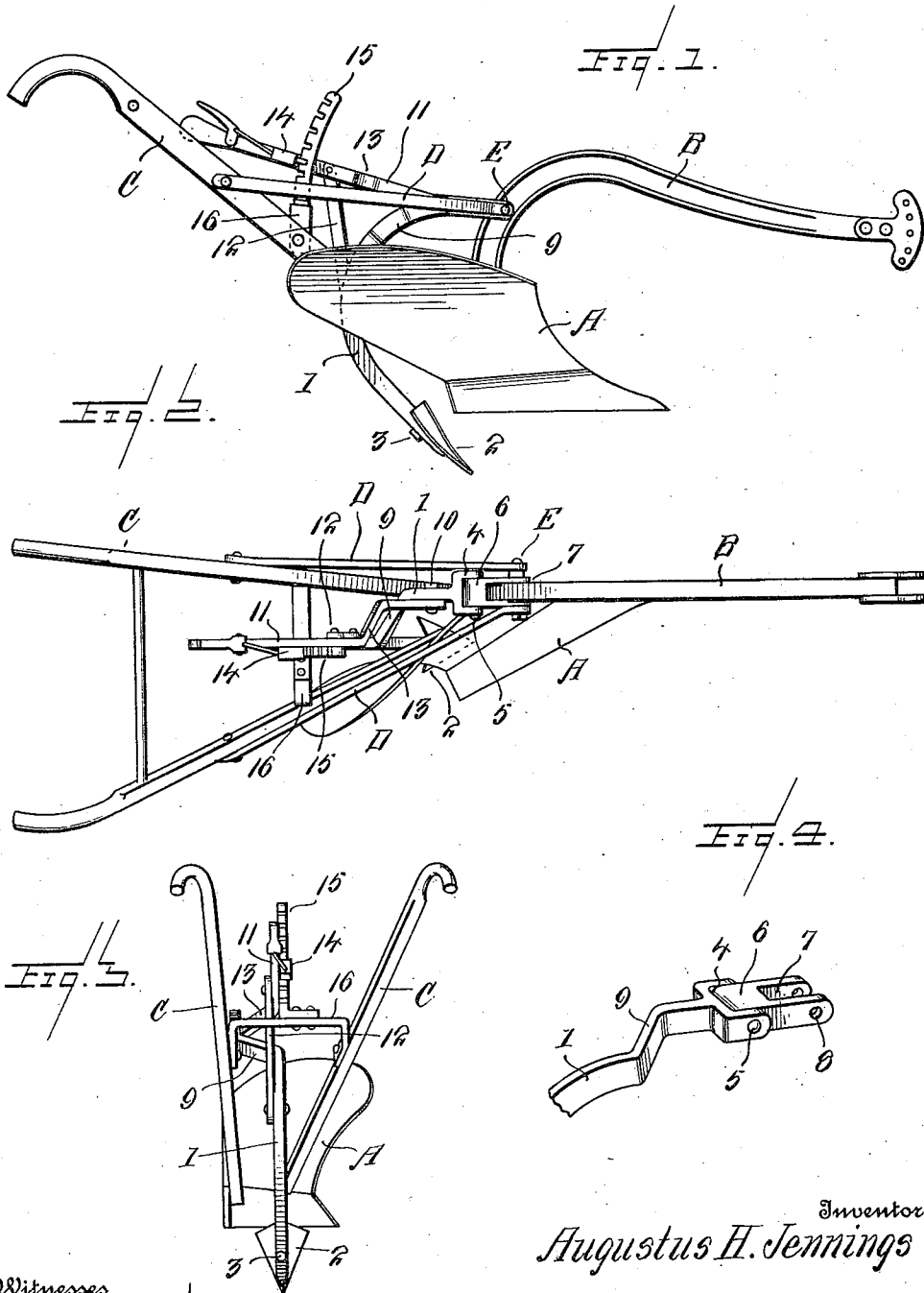


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 SUBSOIL ATTACHMENT FOR PLOWS.
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1,018,061.

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SUBSOIL ATTACHMENT FOR PLOWS.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, AUGUSTUS H. JENNINGS, a citizen of the United States of America, residing at Cokesbury, in the county of Greenwood and State of South Carolina, have invented new and useful Improvements in Subsoil Attachments for Plows, of which the following is a specification.

This invention relates to plow attachments, and it has for its object to provide a sub-soiling attachment of simple and improved construction which may be readily applied to, and operatively connected with, a turning plow of ordinary construction.

A further object of the invention is to provide an attachment of the character described in which the sub-soiler may be readily adjusted so as to work at any desired depth in the ground, or whereby it may be lifted to and supported in an inoperative position if so desired.

With these and other ends in view which will readily appear as the nature of the invention is better understood, the same consists in the improved construction and novel arrangement and combination of parts which will be hereinafter fully described and particularly pointed out in the claim.

In the accompanying drawing has been illustrated a simple and preferred form of the invention, it being, however, understood that no limitation is necessarily made to the precise structural details therein exhibited, but that changes, alterations and modifications within the scope of the claim may be resorted to when desired.

In the drawing, Figure 1 is a side elevation of a plow equipped with the improved sub-soiling attachment. Fig. 2 is a top plan view of the same. Fig. 3 is a rear elevation. Fig. 4 is a perspective detail view showing the means for connecting the sub-soiler standard with the plow beam.

Corresponding parts in the several figures are denoted by like characters of reference.

A designates an ordinary turning plow of any suitable and approved type or pattern, the same having a beam B, handles C, C and braces D, D connecting the handles with the beam, said braces being attached to the beam by means of a transverse connecting member, such as a bolt E.

The sub-soiler attachment includes an arcuate or suitably curved standard 1 carrying the sub-soiler blade 2 which may be ad-

justably or otherwise connected therewith by a fastening member 3, and which may be of any suitable and well known type and shape. The upper forward end of the standard 1 is bifurcated, as shown at 4, and is pivotally connected by means of a pin or bolt 5 with a lug 6 which is recessed at 7 to straddle the plow beam B upon which it is mounted, preferably by means of the bolt E for the passage of which the recessed portion of the lug 6 is apertured, as shown at 8 in Fig. 4. Assuming the beam B to be connected in the usual manner with the land-side of the plow A, the standard 1 is preferably provided with an offset 9 in order that the sub-soiler blade carried by said standard may engage the middle of the furrow formed by the plow.

Suitably connected with the standard 1 by a fastening member, such as a bolt 10, is a rearwardly extending handle bar 11 which is also connected with said standard by a reinforcing brace 12. The handle bar 11 has an offset 13 corresponding with the offset 9 of the standard, and said handle bar is provided with a stop member 14 adapted to engage an arcuate rack 15 rising from a bridge member or bench 16 which is suitably bolted or otherwise secured upon the plow handles C, C.

It will be readily seen that by means of the handle bar 11 the standard 1 may be adjusted to raise or lower the sub-soiler blade 2, said blade being maintained at the desired adjustment by engagement of the stop member 14 with the rack 15. If required, the sub-soiler blade may be maintained in a position where it will not engage the ground, but it may at a moment's notice be lowered to make a sub-soiling trench of the desired depth.

The improved attachment comprising the supporting lug 6, the blade carrying standard 1 having the handle 11 and the bench or bridge piece 16 having the arcuate rack 13 may be very readily and quickly applied to any ordinary plow of conventional construction, and when so applied it forms a very simple and effective sub-soiling attachment which may be thrown into or out of engagement at a moment's notice and which will operate to the desired depth in the ground. The construction is simple, inexpensive and thoroughly efficient for the purpose for which it is provided.

Having thus described the invention, what is claimed as new, is:—

5 The combination with a turning plow having a beam and handles connected therewith, of a recessed block straddling the beam and connected therewith, a standard pivotally
10 connected with the block and carrying a sub-soiler blade, said standard being offset to present the sub-soiler blade about midway of the furrow formed by the plow, a handle member associated with the standard, a bridge mem-

ber secured upon the plow handles and having an upwardly extending rack, and a stop member associated with the handle member of the blade carrying standard and engaging 15 the rack.

In testimony whereof I affix my signature in presence of two witnesses.

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Witnesses:

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