

No. 688,551.

Patented Dec. 10, 1901.

D. E. SELBY.  
SUBSOIL ATTACHMENT FOR PLOWS.

(Application filed May 10, 1900.)

(No Model.)

Fig. 1.

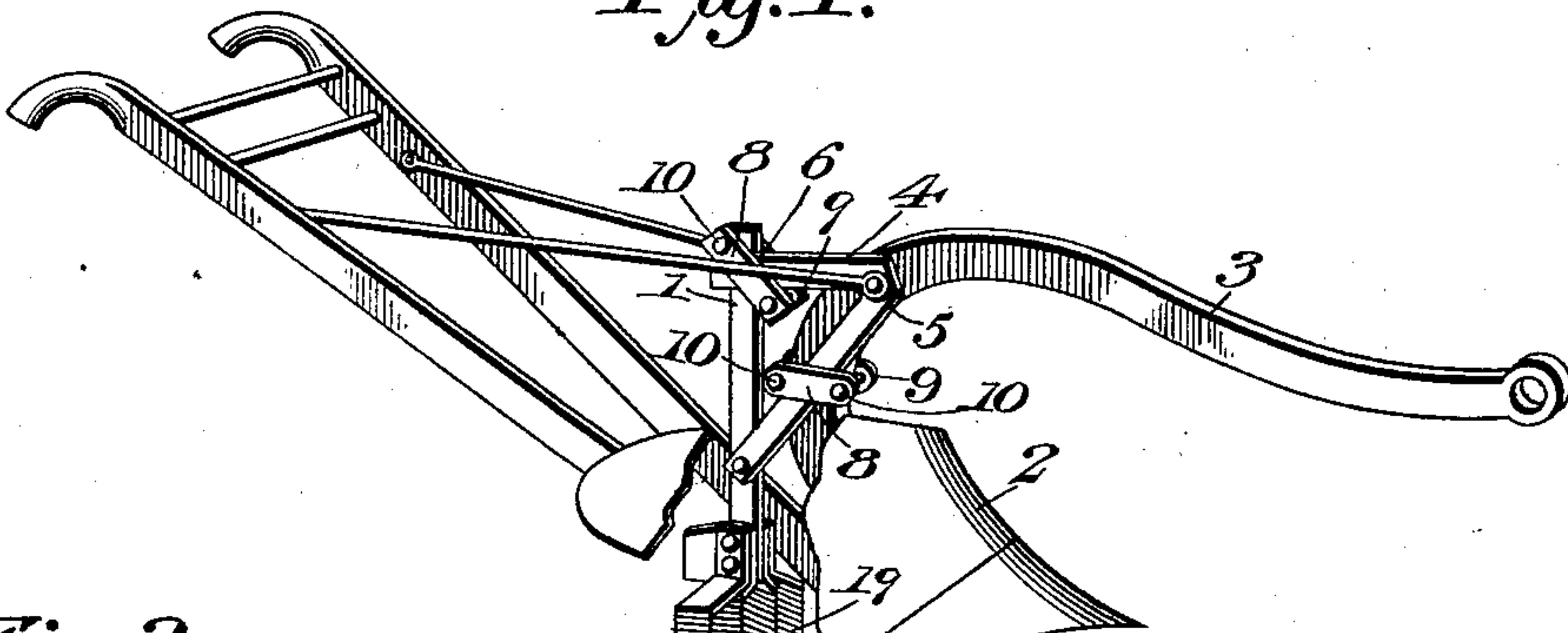


Fig. 2.

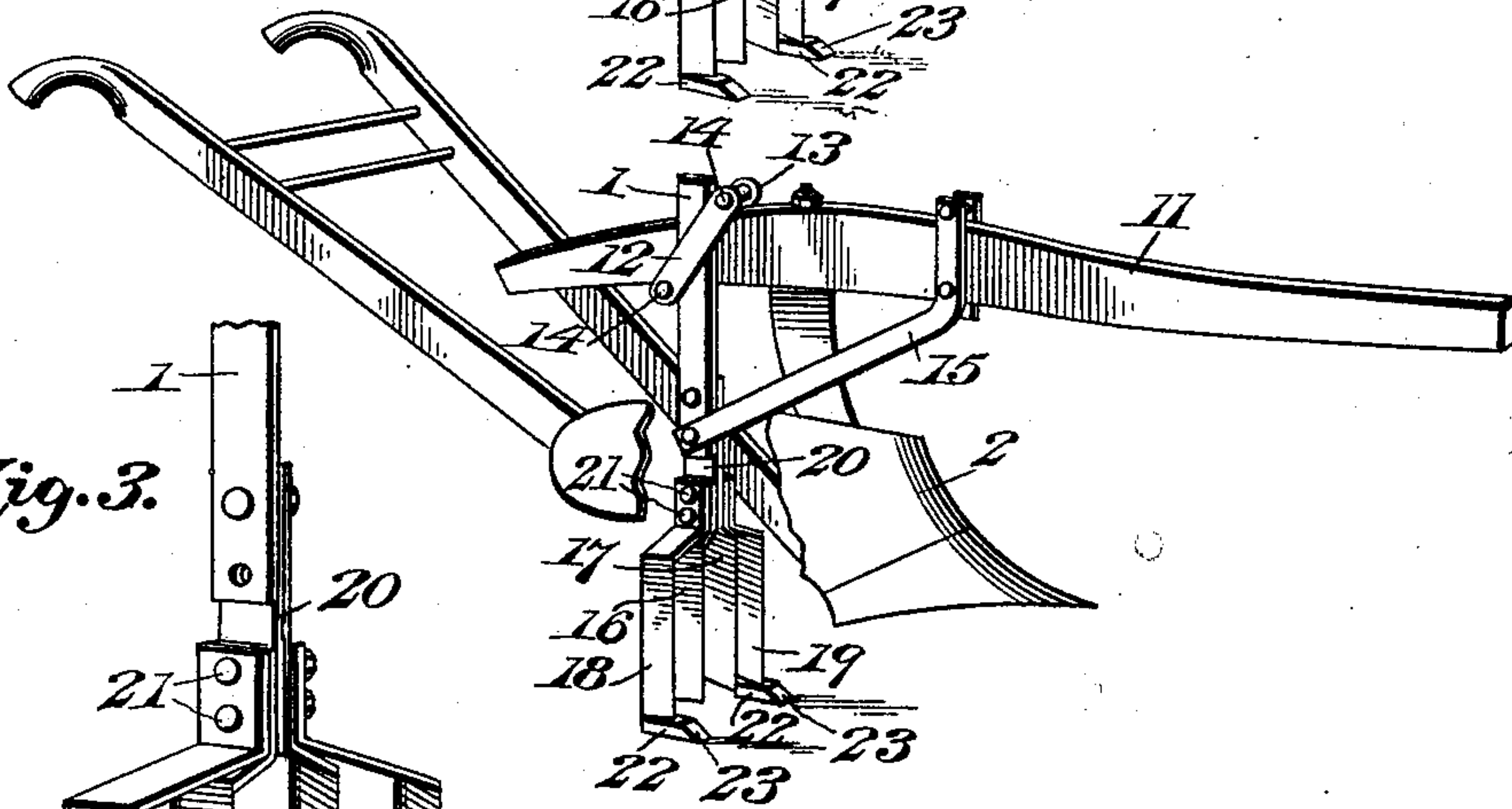


Fig. 3.

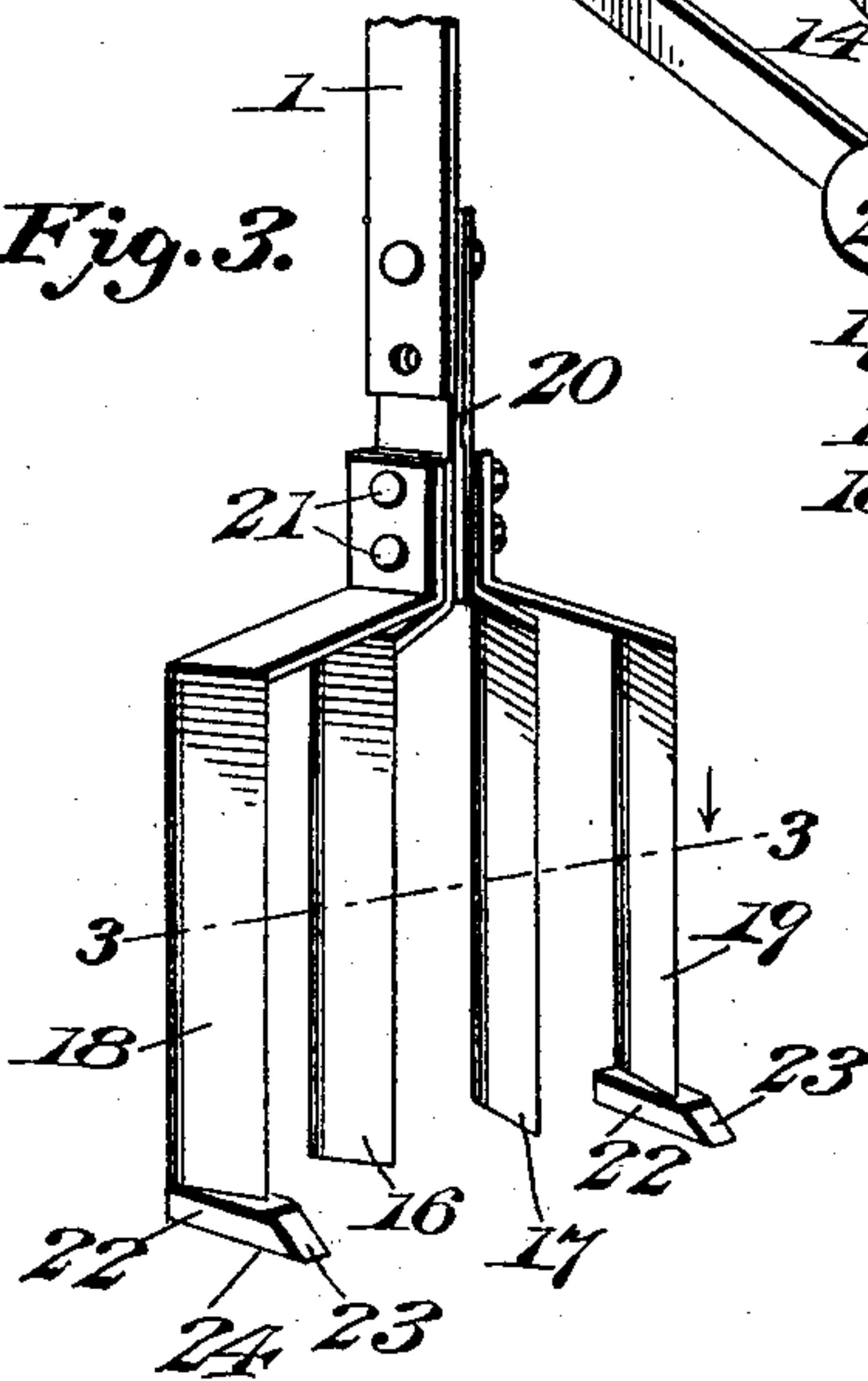
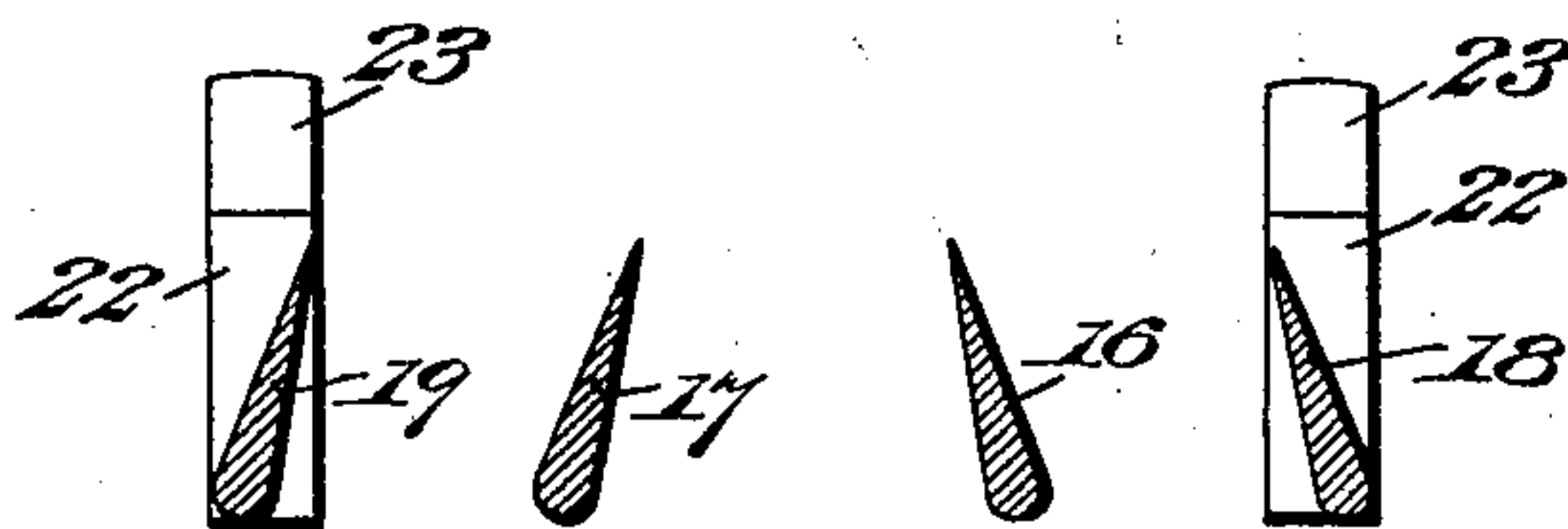


Fig. 4.



Witnesses  
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# UNITED STATES PATENT OFFICE.

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## SUBSOIL ATTACHMENT FOR PLOWS.

SPECIFICATION forming part of Letters Patent No. 688,551, dated December 10, 1901.

Application filed May 10, 1900. Serial No. 16,221. (No model.)

*To all whom it may concern:*

Be it known that I, DWIGHT E. SELBY, a citizen of the United States, residing at Laporte, county of Laporte, State of Indiana, have invented a new and useful Subsoil Attachment for Plows, of which the following is a specification.

My invention relates to plow attachments, the object being to provide means for subsoil-ploughing and for adjusting the subsoil attachments both laterally and in the direction of draft.

The construction of the improvement will be fully described hereinafter in connection with the accompanying drawings, which form a part of the specification, and its novel features will be defined in the appended claims.

In the drawings, Figure 1 is a view in perspective of my improvement attached to a steel plow-beam, the moldboard being broken away. Fig. 2 is a similar view showing the attachment applied to a wooden beam. Fig. 3 is a view in perspective of the attachment removed from the plow, and Fig. 4 is a section on an enlarged scale on the line 3 3 of Fig. 3.

The reference-numeral 1 designates a standard adapted to be attached adjustably to a plow-beam in rear of the moldboard 2.

In Fig. 1 the standard 1 is secured to a steel beam 3 by means of an angle-bracket 4, bolted at its angle-point 5 to the side of the beam, at its lower end 6 to the standard 1, and having its upper end connected to the standard by plates 8 and 9 and connecting-bolts 10.

In Fig. 2 the upper end of the standard 1 is clamped to a wooden beam 11 by a clamp comprising parallel plates 12 and 13 and securing-bolts 14, and the standard is also secured by an angle-arm 15, securely bolted at its forward end to one side of the beam and at its rear end to the standard 1.

Disposed at opposite sides of the standard 1 are the blades 16, 17, 18, and 19, having their front edges sharpened to cut the soil. The inner pair of blades 16 and 17 have their upper ends bent inward and then upward to overlap the opposite sides of the lower end of the standard or a spacing plate or plates 20 secured thereto, and the outer pair of blades

18 and 19 are similarly bent to overlap the vertical upper ends of the blades 16 and 17, so that both pairs of blades may be secured by parallel bolts 21, which extend through registering openings formed in the upper ends of the blades and the lower end of the standard 1 or in the spacing-plate 20.

As illustrated in Fig. 4, the blades of each pair are at an angle to each other, so that one blade of the inner pair and one of the outer pair are inclined in one direction and the remaining two blades in the opposite direction. This disposition of the blades in opposite angles to the line of draft insures a thorough agitation and disintegration of the soil in rear of and below the plow proper, as the blades project well below the plow-moldboard.

To the lower end of each of the outer cutting-blades 18 and 19 is secured a shoe 22, having an inclined surface 23 and a flat under surface 24.

The lateral adjustment of the cutting-blades may be effected by the use of any desired number of the spacing-plates 20 on either side of the standard 1. The blades are also capable of a vertical adjustment by loosening the bolts of the clamp at the upper end of the standard, and said blades may be also tilted either forward or backward by the manipulation of said clamps.

I claim—

1. A subsoil attachment for plows comprising a standard, and cutting-blades depending therefrom, and arranged in pairs, said blades being disposed at opposite angles with relation to the line of draft.

2. The combination with a plow-beam, of a subsoil attachment comprising a standard adjustably secured to said beam; a plurality of cutting-blades secured to said standard and depending below the plow-moldboard; said blades being disposed at opposite angles with relation to the line of draft and a spacing-plate interposed between the standard and blades.

3. The combination with a plow-beam, of a subsoil attachment comprising a standard, cutting-blades depending from the standard and arranged at opposite angles with relation to the line of draft, one or more spacing-

plates between the standard and the upper end of an adjacent blade, and means for tilting the standard.

4. The combination with a plow-beam, of  
5 a subsoil attachment comprising a standard and cutting-blades bent inward at the upper ends for attachment to the standard, and oppositely inclined with relation to the line of draft; shoes secured to the lower ends of the

outer cutting-blades; and means for adjusting the standard.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

DWIGHT E. SELBY.

Witnesses:

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