

No. 693,451.

Patented Feb. 18, 1902.

W. H. C. SCHUBERT.

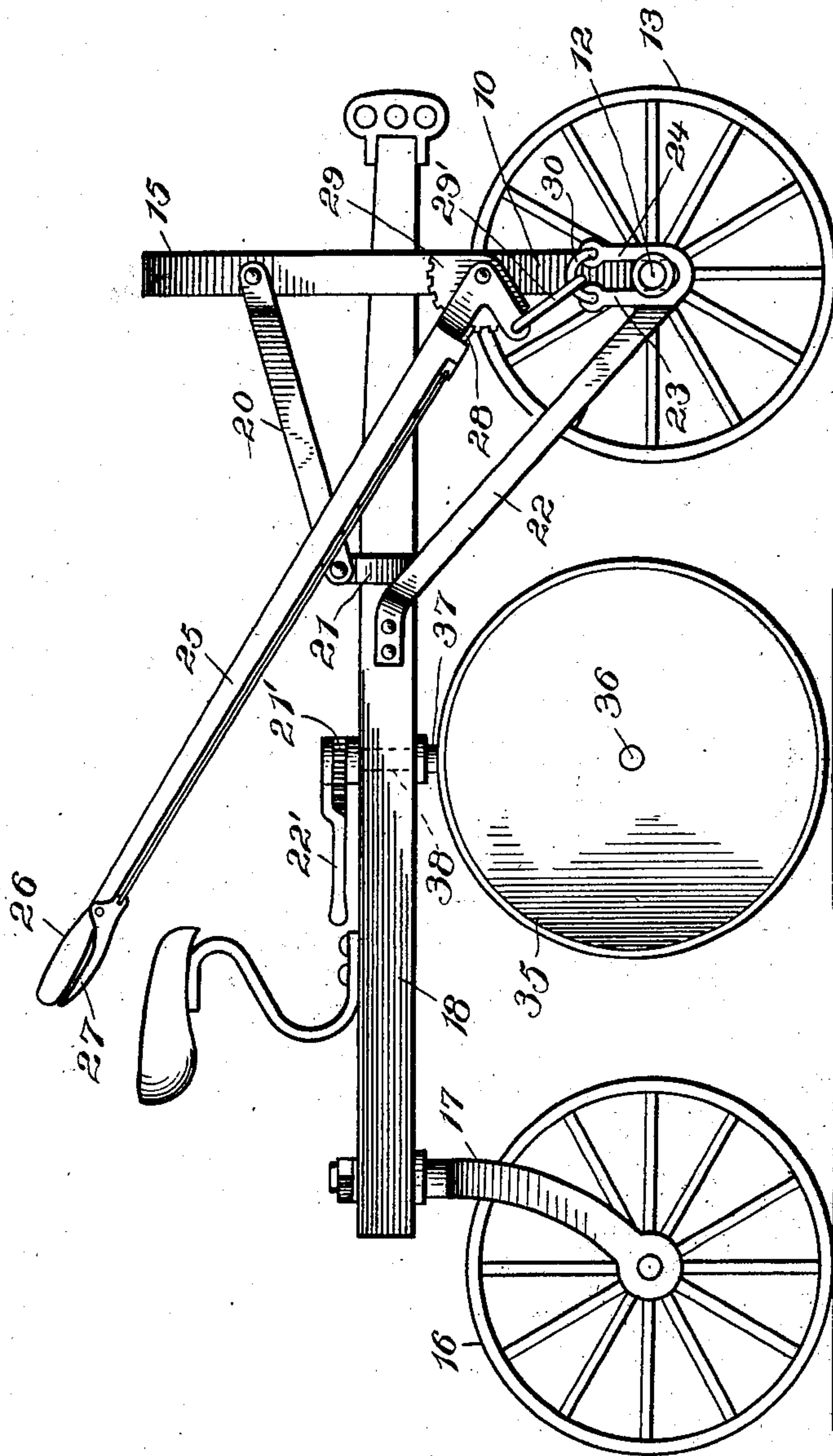
PLOW.

(Application filed Oct. 21, 1901.)

(No Model.)

2 Sheets—Sheet 1.

*Fig. 1.*



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Fig. 2.

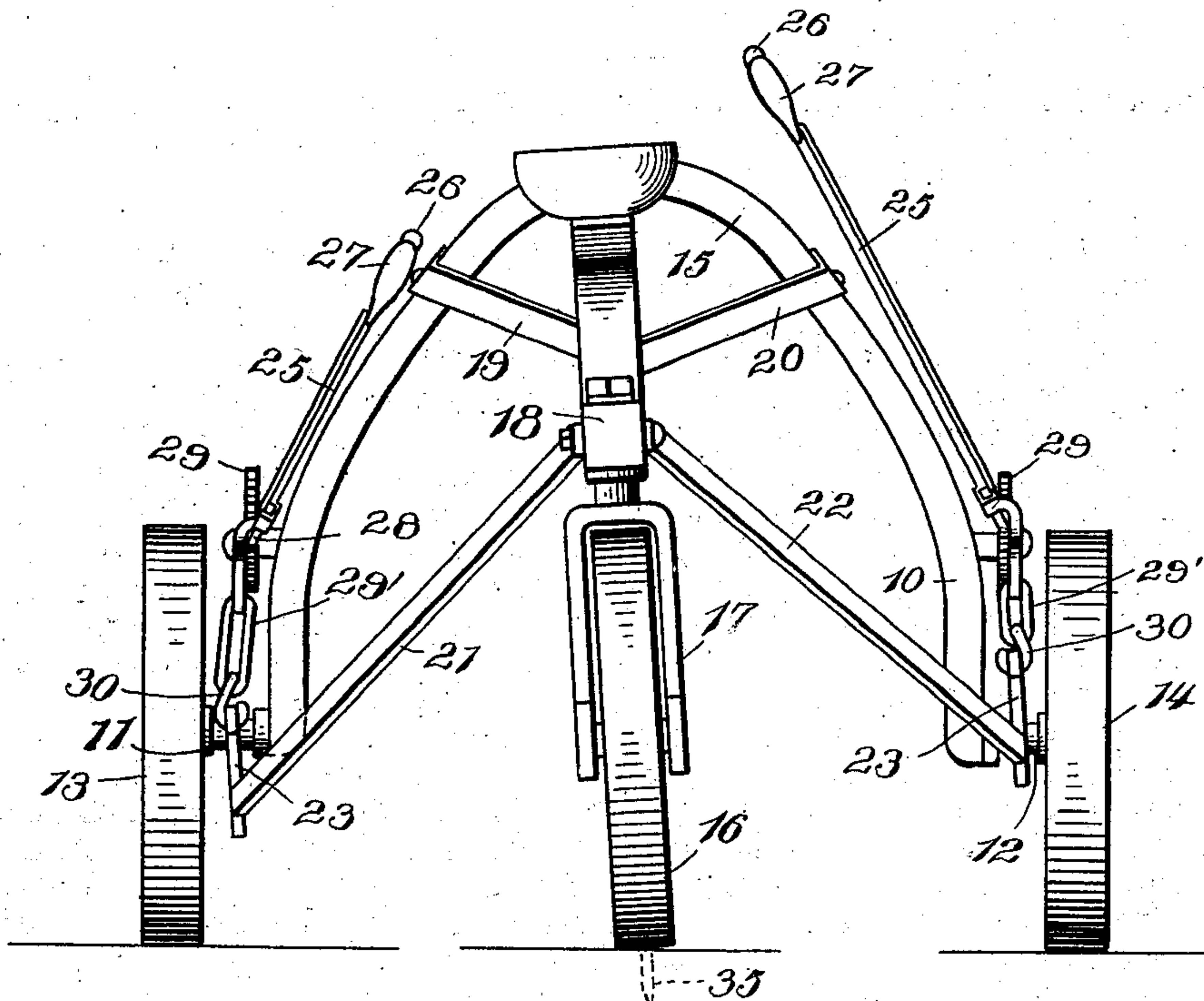
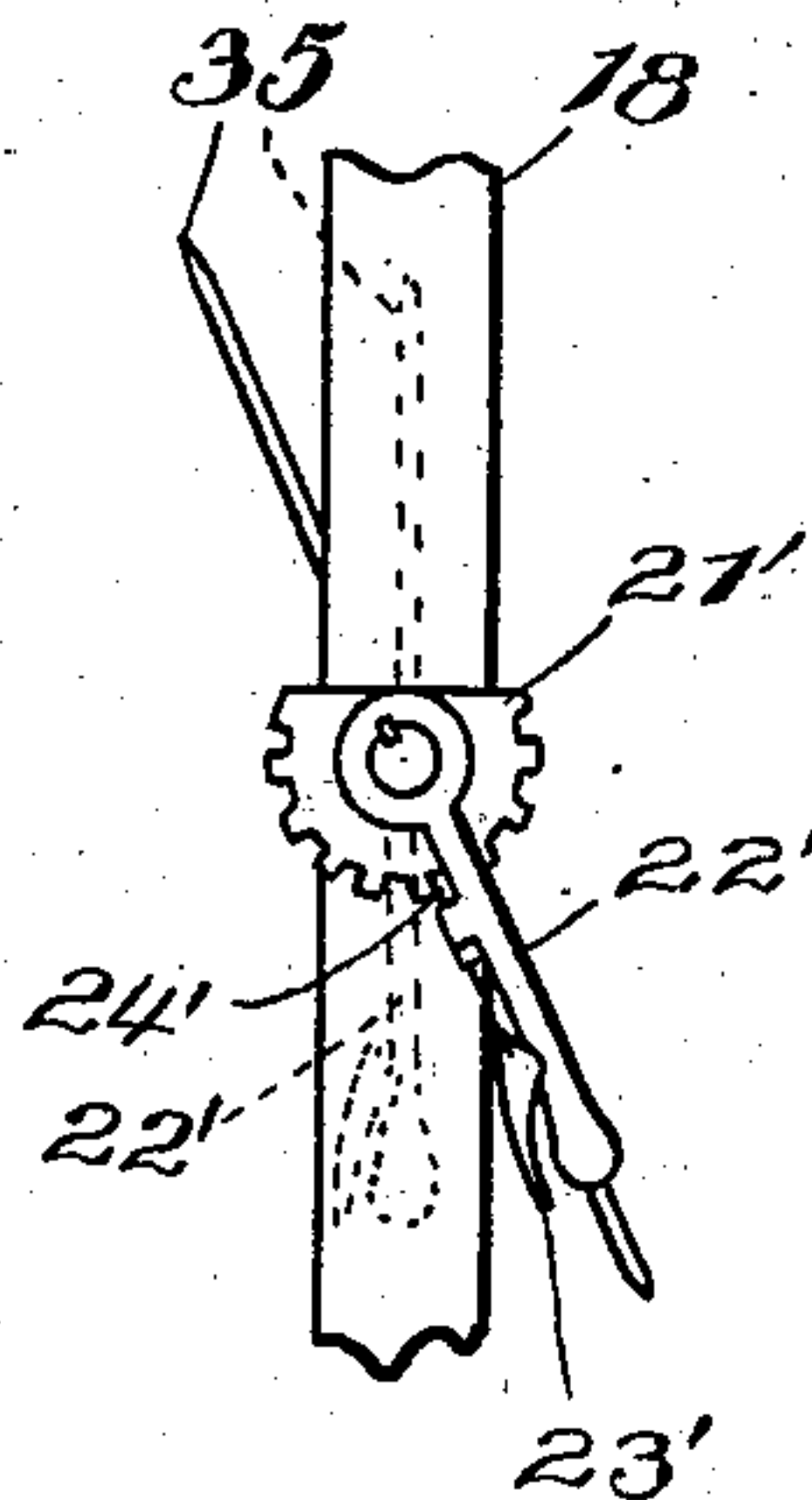


Fig. 3.



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# UNITED STATES PATENT OFFICE.

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## PLOW.

SPECIFICATION forming part of Letters Patent No. 693,451, dated February 18, 1902.

Application filed October 21, 1901. Serial No. 79,461. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIE H. C. SCHUBERT, a citizen of the United States, residing at Britt, in the county of Hancock, State of Iowa, have  
5 invented certain new and useful Improvements in Plows; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to  
10 make and use the same.

This invention relates to plows in general, and more particularly to the class of plows known as "disk" plows, the object of the invention being to provide a simple and efficient  
15 construction of this nature wherein the angle of the disk may be varied and reversed, as also the degree and direction of pitch thereof.

A further object of the invention is to provide a construction which will permit of adjustment of the parts easily and quickly without the operator leaving his seat, so that the parts may be shifted at the end of each row, other objects and advantages of the invention having reference to details of construction, which will be understood from the following description.

In the drawings forming a portion of this specification, and in which like numerals of reference indicate similar parts in the several views, Figure 1 is a side elevation of the  
30 plow with the disk in a vertical plane, as when transporting the implement from place to place. Fig. 2 is a rear elevation of the plow with one side of the frame thereof lowered to give a corresponding pitch to the disk. Fig.  
35 3 is a detail view of the disk with the mechanism for adjusting it rotatably to vary the width and direction of the furrow.

Referring now to the drawings, there is  
40 shown a plow comprising a frame including an axle 10, having the straight end portions 11 and 12, forming spindles, on which are mounted the supporting-wheels 13 and 14, the portion between the spindles being curved  
45 upwardly to form the arch 15.

The wheels 13 and 14 are the front wheels of the implement, the rear wheel of the implement being a caster-wheel 16, the caster 17 of which is journaled at its upper end in  
50 a suitable bearing at the rear end of the plow-beam 18. At a point somewhat in advance of the middle of the plow-beam are pivotally

connected the braces 19 and 20 through the medium of a collar 21, engaged in a circumferential groove formed in the beam, the outer  
55 or opposite ends of the braces being connected to the sides of the arch 15. Connected also to the beam, but rigidly, are the arms 21 and 22, which diverge in the direction of the axle, beneath which their outer ends are  
60 passed, the extremities of these outer ends having upwardly-directed and spaced fingers 23 and 24, between each pair of which is disposed one of the spindles of the axle, as shown. Upon each side of the arch is pivoted  
65 an angular lever 25, provided with a handle portion 26 for rocking it and having a trigger 27, with which is connected the pawl 28 for engagement with the notched segment 29 for holding the lever at different points of its piv-  
70 otal movement. The opposite end of the lever has a link 29' connected thereto, which link in turn is connected, through the medium of the bail 30, with the upper ends of the fingers of the adjacent arm. If, then, one of these  
75 levers 25 be raised and the other lowered, one arm will be raised and the other lowered and the plow-beam will be tilted laterally, while if both levers are similarly positioned the beam will be held level. 80

The disk of the plow is shown at 35 and is rotatably mounted upon the spindle 36 at the lower end of the shaft 37, the upper end of which is passed through a bearing 38 in the plow-beam in the rear of the point of connection of the braces 19 and 20 therewith, and concentric with which shaft is arranged a notched segment 21'. A lever 22' is fixed to the upper protruding end of the shaft and carries a trigger 23', connected to the pawl 24'  
85 upon the lever and arranged to engage the notched segment to hold the lever at different points of its adjustment. By manipulating the lever the shaft may be rotated and the connected disk may be moved to reverse or  
90 vary its angles to the beam. 95

In practice when a furrow is to be made one of the levers 25 is raised and the other lowered, the disk having been adjusted to throw the furrow in the proper direction, and  
100 when the end of the furrow is reached the proper lever is operated to right the implement, and while the plow is being turned the disk may be reversed for the return furrow.



It will be understood that in practice modifications of the specific construction shown may be made and that any suitable materials and proportions may be used for the various parts without departing from the spirit of the invention.

What is claimed is—

1. A plow comprising a beam having a disk connected thereto for adjustment in a horizontal plane, an axle having supporting-wheels, rods connected to the axle and having pivotal connection with the beam, arms connected to the beam, and extending at opposite sides thereof and below the axle, and levers pivoted to the axle and connected to the arms for raising and lowering the latter to tilt the beam and therewith the disk in opposite directions.

2. A plow comprising an arched axle provided with supporting-wheels, a beam having a disk connected thereto for adjustment in a horizontal plane, braces connected to the arch and having pivotal connection with the beam, arms connected to the beam and extending at opposite sides thereof and having fingers directed upwardly at opposite sides of the axle, and levers pivoted to the axle and having connections with the fingers to adjust the arms and tilt the beam and therewith the disk.

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

WILLIE H. C. SCHUBERT.

Witnesses:

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