

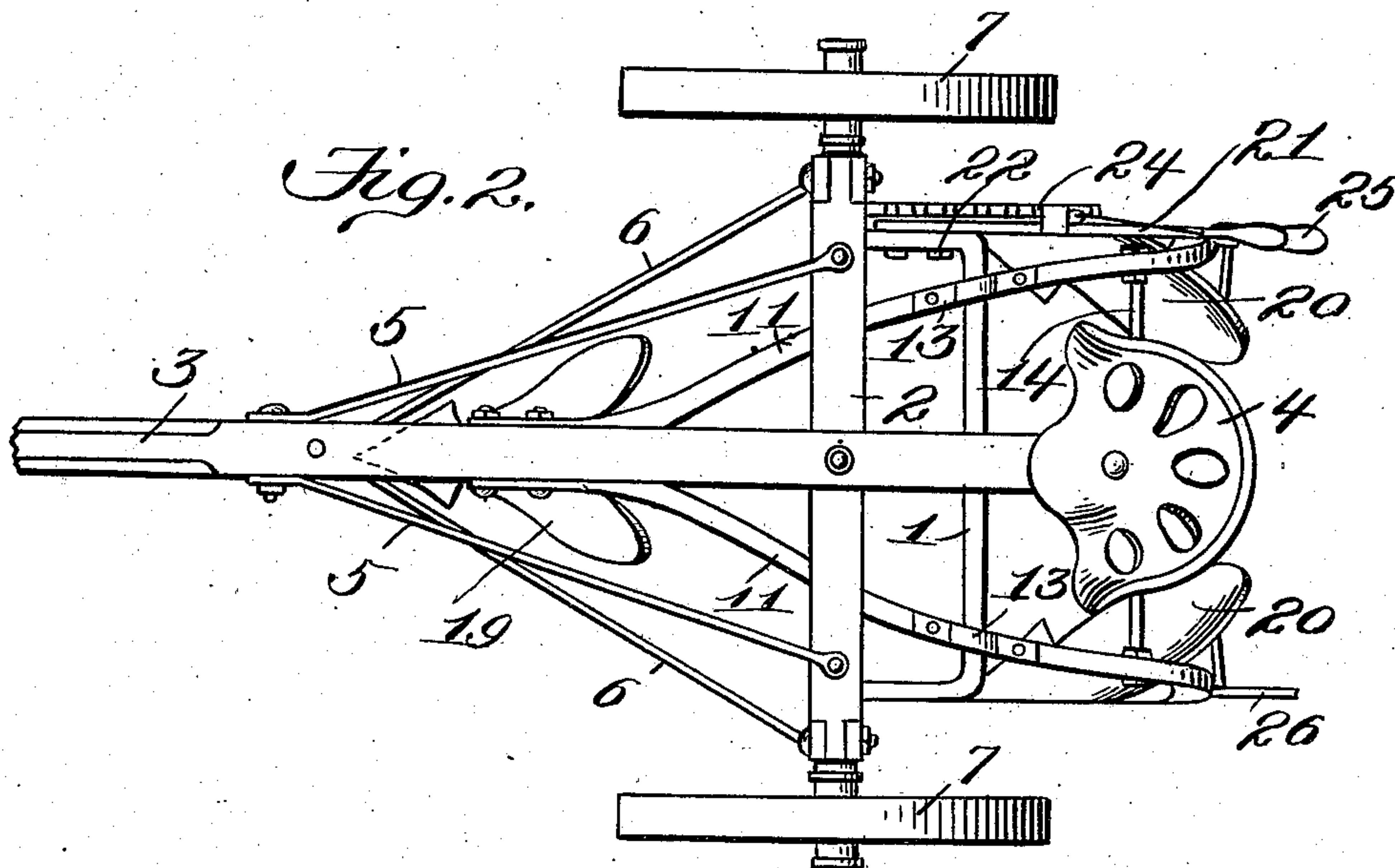
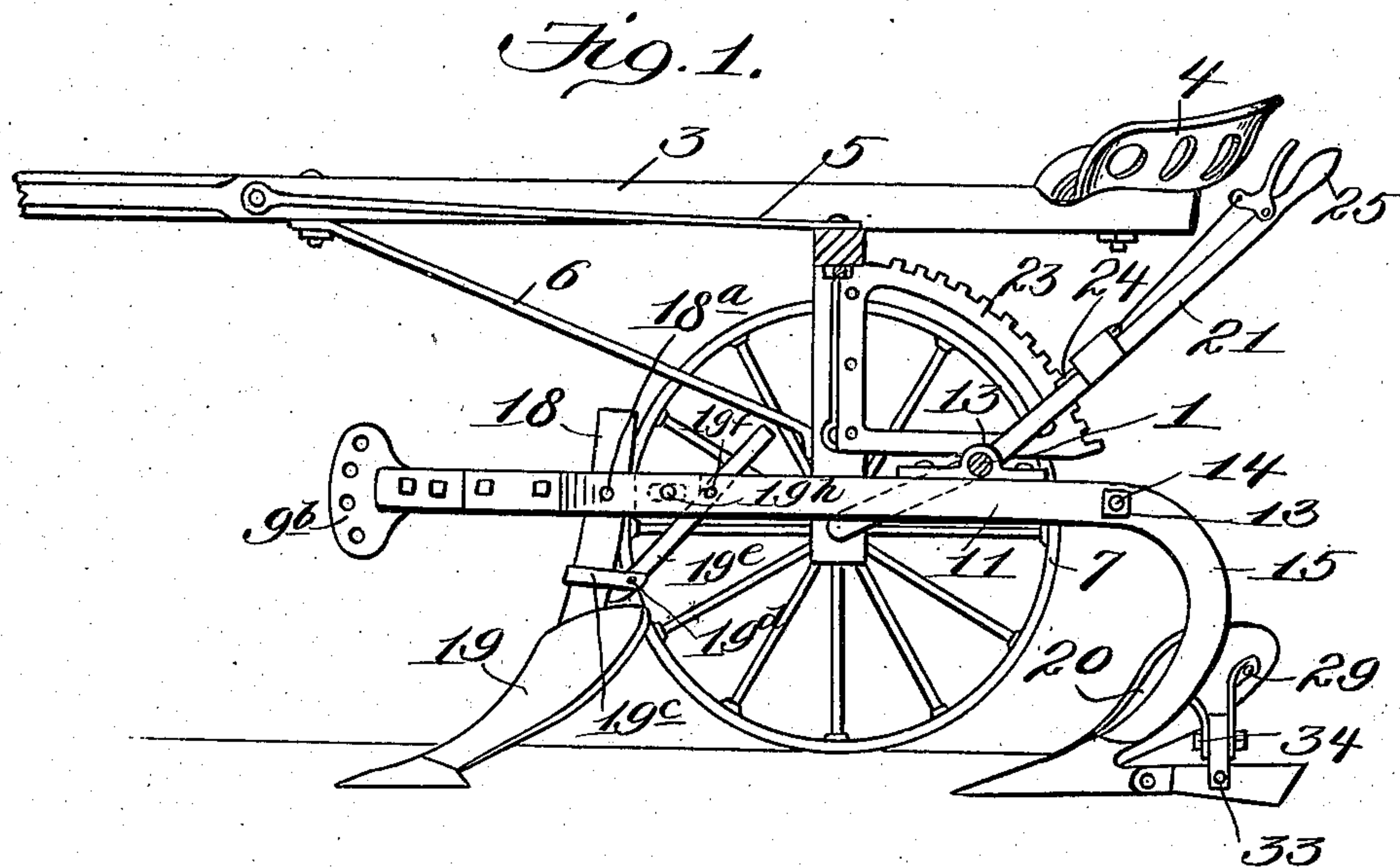
No. 881,820.

PATENTED MAR. 10, 1908.

J. McMULLAN.
WHEEL PLOW.

APPLICATION FILED AUG. 12, 1907.

2 SHEETS—SHEET 1.



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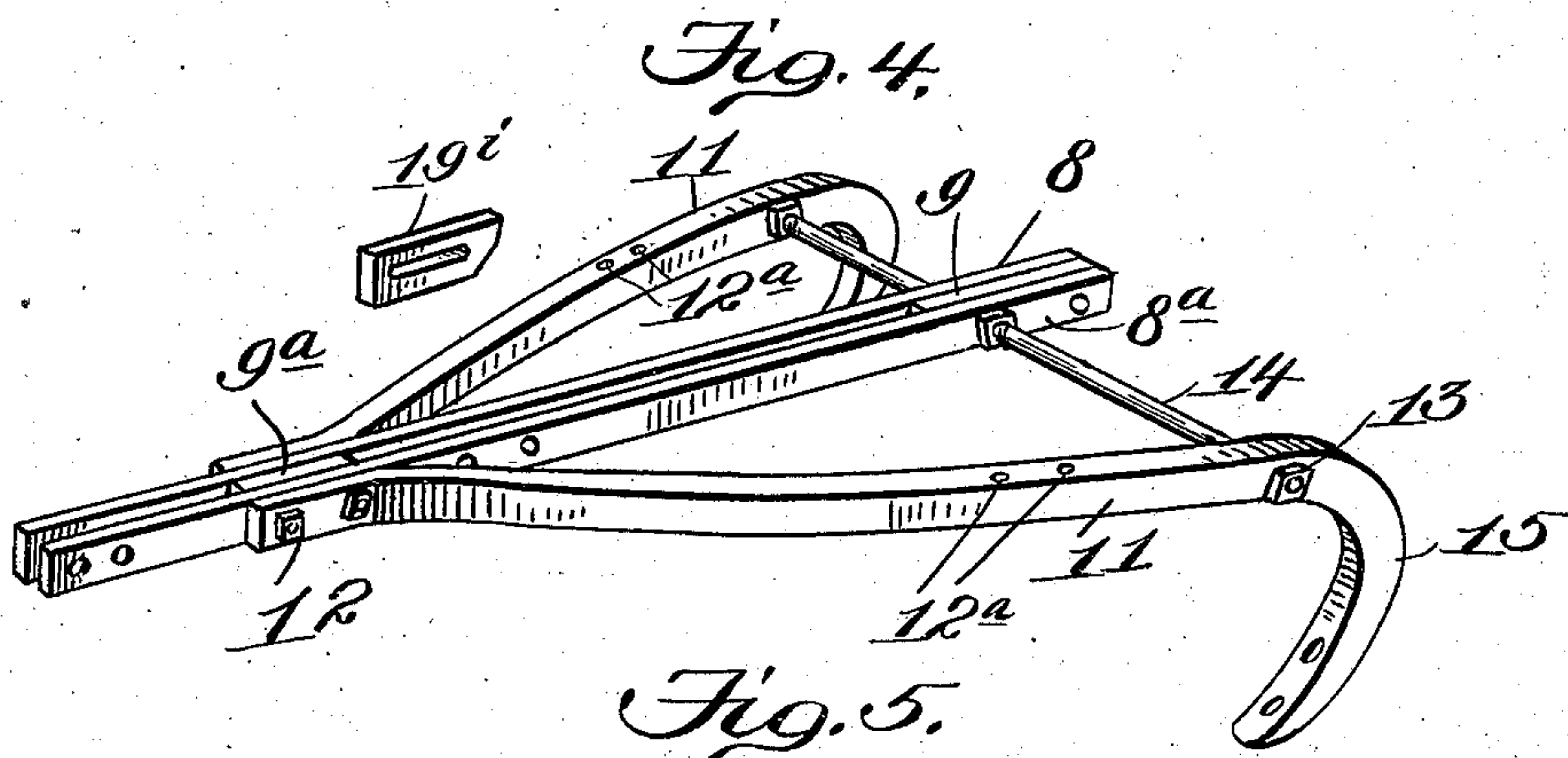
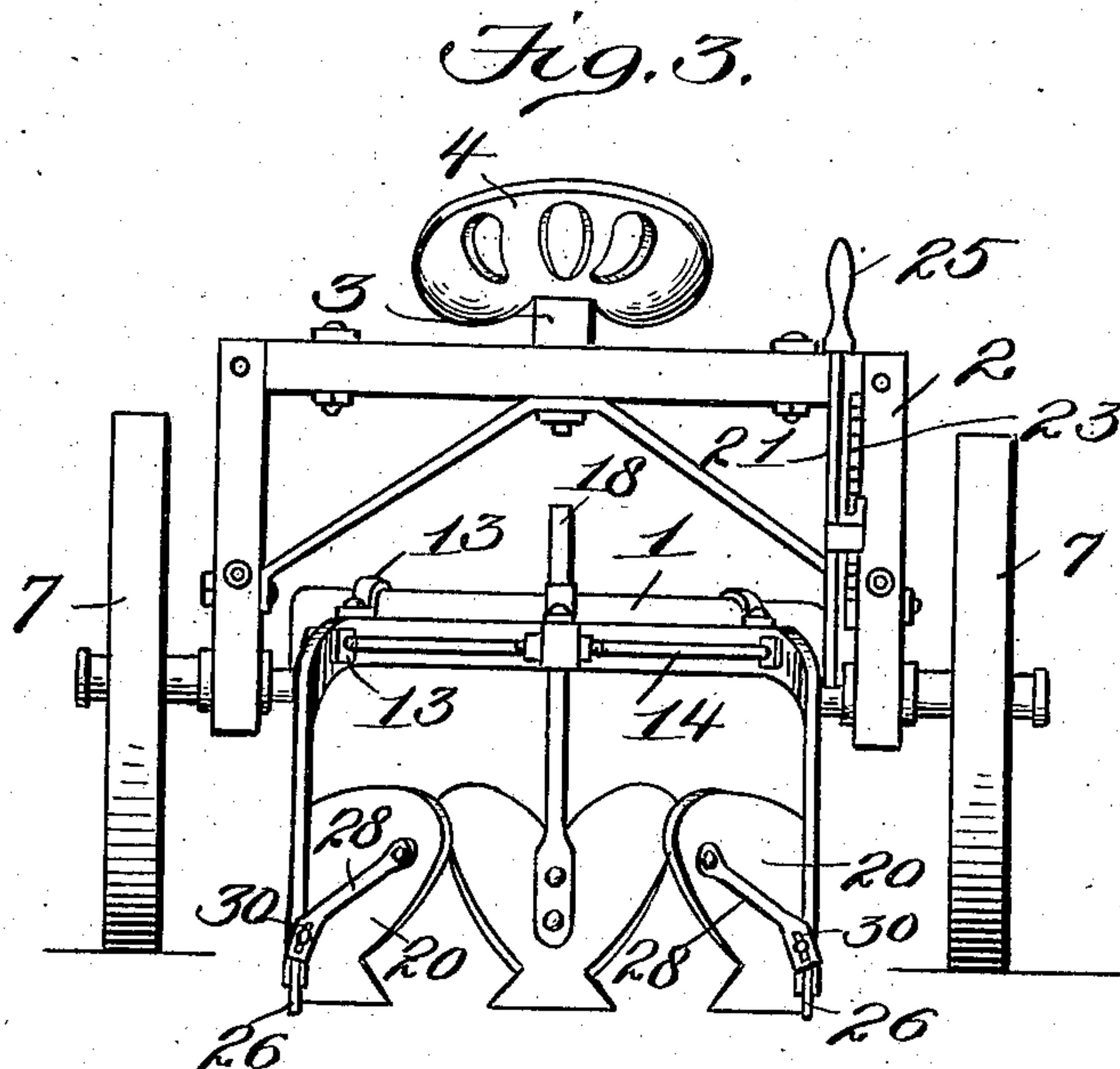
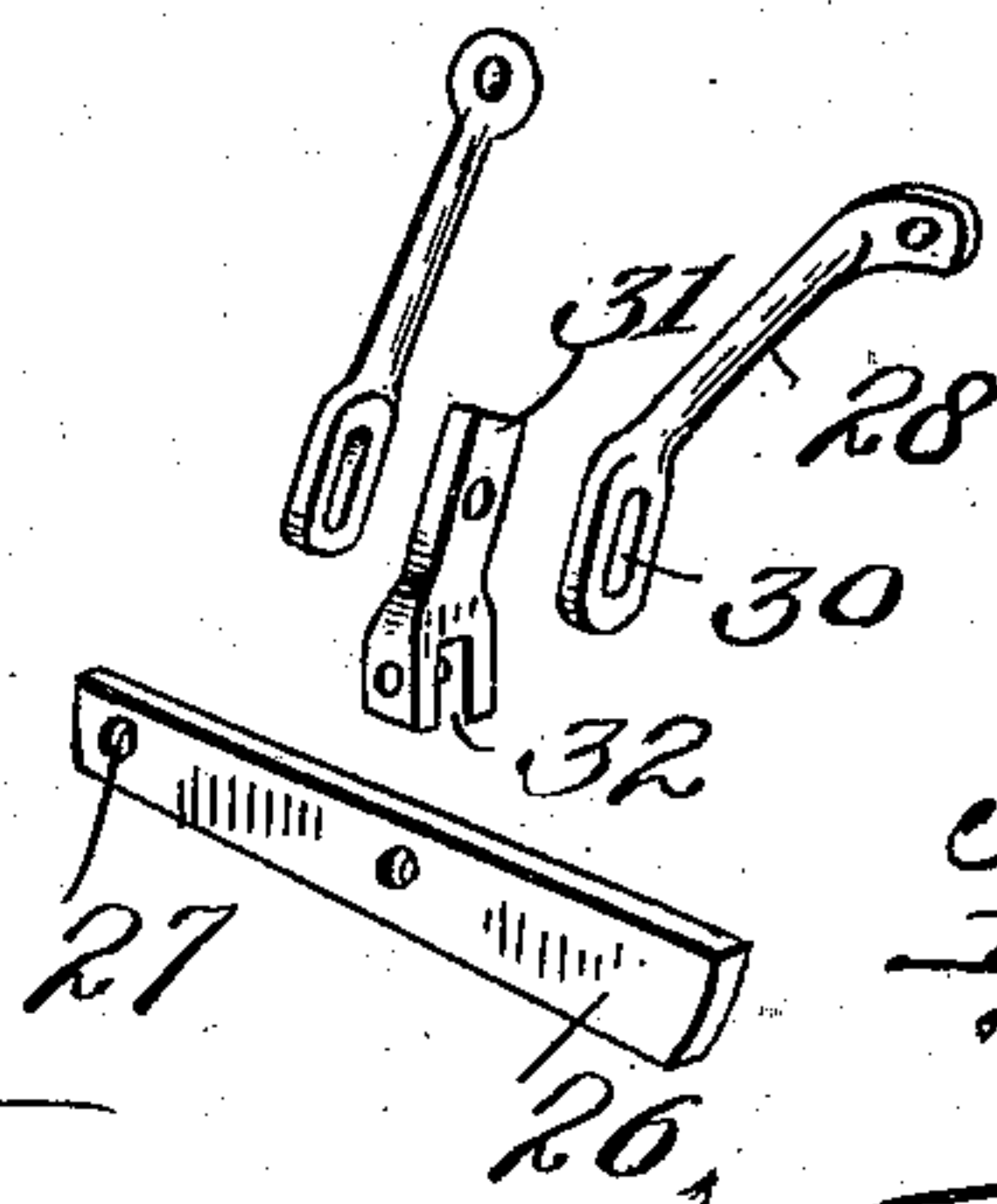


Fig. 5.



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UNITED STATES PATENT OFFICE.

JASPER McMULLAN, OF MILFORD, TEXAS.

WHEEL-PLOW.

No. 881,820.

Specification of Letters Patent.

Patented March 10, 1908.

Application filed August 12, 1907. Serial No. 388,182.

To all whom it may concern:

Be it known that I, JASPER McMULLAN, a citizen of the United States, residing at Milford, in the county of Ellis and State of Texas, have invented new and useful Improvements in Wheel-Plows, of which the following is a specification.

This invention relates to wheel plows, and the object thereof is to provide a plow of such class in a manner as hereinafter set forth, in which is combined the principles of a "buster" and a covering plow.

A further object of the invention is to provide means in the manner as hereinafter set forth which is connected to the covering plows to prevent sidewise slipping thereof.

A further object of the invention is to provide a wheel plow embodying the principles set forth and which shall be simple in its construction, strong, durable, efficient in its use, and comparatively inexpensive to manufacture.

With the foregoing and other objects in view, the invention consists in the novel construction, combination and arrangement of parts as hereinafter more specifically described and illustrated in the accompanying drawings, wherein is shown the preferred embodiment of the invention, but it is to be understood that changes, variations and modifications can be resorted to which come within the scope of the claims hereunto appended.

In describing the invention in detail, reference is had to the accompanying drawings, wherein like characters of reference denote corresponding parts throughout the several views, and in which:—

Figure 1 is a longitudinal sectional view of a wheel plow in accordance with this invention. Fig. 2 is a top plan. Fig. 3 is an end view. Fig. 4 is a perspective view of the beam frame, and Fig. 5 is a like view, showing the parts which constitute the means to prevent sidewise slipping of the covering plows, the parts being disassembled.

Referring to the drawings by reference characters, 1 denotes an arched axle which supports an inverted U-shaped frame 2 to which is secured the tongue 3, the latter projecting forwardly and rearwardly of the frame 2 and carries at its rear end a seat 4. Brace members 5 are secured at one end to the top of the frame 2 and at their other end to the sides of the tongue. Brace members 6 are secured to the vertical members of the

frame 2 and to the lower face of the tongue. The brace members 5, 6 project forwardly from the frame 2. The wheels of the plow are indicated by the reference character 7 and are mounted on the axle 1 in a known manner.

Arranged to extend through the frame 2 and below the arched portion of the axle 1 is a beam frame consisting of a longitudinally- extending member formed of two sections 8, 8^a. These sections are separated by blocks 9, 9^a and also by a clevis 9^b which is secured between the forward ends of the sections 8, 8^a. The beam frame further comprises a pair of diverging members 11 connected at their forward ends to the sides of the sections 8, 8^a forwardly thereof as at 12. The sections 8, 8^a and members 11 are each provided with a pair of openings 12^a through which extend the vertical members of a yoke 13 for connecting said sections and members to the arched portion of the axle. The members 11 are spaced apart from the sections 8, 8^a as well as braced through the medium of a transversely-extending bar 14 carrying retaining nuts 13. Each of the members 11 at its rear end is bent downwardly and forwardly in a curvilinear manner as at 15 which constitutes a plow standard.

Extending between the sections 8, 8^a is a plow standard 18, the standard being connected to the sections by a pin 18^a or other suitable means and attached to the standard is a furrow opener 19 which forms a buster plow. A covering plow 20 is attached to each of the standards 15.

The standard 18 is braced through the medium of a yoke 19^c having its rear end provided with a pin 19^d for pivotally connecting the lower end of a brace 19^e to the yoke. The brace 19^e engages the standard 18. The brace 19^e is also pivotally connected to the sections 8, 8^a by the cross pins 19^f. Arranged between the sections 8, 8^a and supported by the bolt 19^h is a slotted wedge block 19ⁱ, the function of which is to engage the brace 19^e and prevent movement thereof. In this connection it will be understood that if the plow standard 18 starts to swing upon its pivot the block 19ⁱ will form an abutment and arrest any movement of the brace 19^e, consequently preventing movement of the plow standard upon its pivot. Suitable means such as a nut is provided upon the bolt 19^h for fixing the block 19ⁱ from movement.

The slot in the block 19¹ allows the block to be longitudinally adjustable so as to enable the block to be positioned properly after the plow standard 18 has been elevated or lowered. Such action would swing the brace 19^e upon its pivot.

Means is provided for raising and lowering the beam frame, which consists of a lever arm 21 connected at its lower end as at 22 to the axle 1. A toothed rack 23 is secured to the frame 2 and projects rearwardly therefrom. The rack 23 is arranged in suitable relation with respect to the lever 21 so that the dog 24 carried by the lever can engage in the teeth of the rack and thereby maintain the beam frame in the position to which it has been adjusted. Owing to the fact that the beam frame is connected to the arched portion of the axle 1 by the yokes 13, it is evident that when the lever 21 is shifted, moving the axle therewith, the beam frame will be carried with the axle and owing to such arrangement, the beam frame can be readily adjusted when occasion so requires. The lever 21 is arranged in proximity to the seat 4 so that the handle end 25 of the lever can be readily grasped by the operator.

Means is provided to prevent sidewise slipping of each of the covering plows and which consists of a rearwardly extending wedge-shaped blade 26 pivotally connected as at 27 to the plow and furthermore adjustably connected to the plow through the medium of a pair of links 28 secured as at 29 to the mold board and having one end formed with an elongated slot 30. Between the slotted ends of the link 28 is secured a short arm 31 having a bifurcated lower end 32 which straddles the blade 26 and is connected thereto as at 33. The arm 31 is connected to the slotted ends of the links 28 by the adjustable hold-fast device 34 which as shown consists of a nut and bolt. Owing to the foregoing arrangement, the blade will cut about one or two inches lower down in the ground than the plows and consequently hold the plow from sidewise slipping. The adjustable connection between the blade and the plow allows for varying the cut of the blade. As the smaller end is pivotally connected with the plow-share the large end thereof will enter the ground the desired distance and prevent sidewise slipping of the plow.

It is evident from the foregoing construction that a wheel plow in accordance with this invention has combined in its construction not only a furrow opening means, but also covering devices so that the implement embodies the principle of a "buster" and a covering plow and furthermore the covering

plows are prevented from sidewise slipping. The adjustment of the plow beam allows for regulating the depth at which the plows enter the ground.

What I claim is:—

1. A wheel plow comprising a plow beam frame, a furrow opener carried thereby forwardly thereof, covering plows attached to the rear of said frame, a plow standard adjustably connected to said frame forwardly thereof, an adjustable brace connected at its lower end to the standard for maintaining the latter in its adjusted position, said brace extending through said frame, means for connecting the upper portion of the brace to the frame, and an adjustable abutment mounted in the frame and adapted to engage the brace for maintaining it in its adjusted position.

2. A wheel plow comprising a plow beam frame, a furrow opener carried thereby forwardly thereof, covering plows attached to the rear of said frame, a plow standard adjustably connected to said frame forwardly thereof, an adjustable brace connected at its lower end to the standard for maintaining the latter in its adjusted position, said brace extending through said frame, means for connecting the upper portion of the brace to the frame, an adjustable abutment mounted in the frame and adapted to engage the brace for maintaining it in its adjusted position, and adjustable means connected to the covering plows to prevent sidewise slipping thereof.

3. An agricultural implement comprising a vertically adjustable plow beam frame embodying a longitudinally extending sectional member and a pair of diverging members connected at their forward ends to the sectional member, an adjustable standard extending between and connected to the sections of said longitudinally-extending member and carrying a furrow opener, a covering plow attached to each of said diverging members, an adjustable brace member connected at one end to the standard and having its other end extending between the sections of the longitudinally-extending member, means for adjustably connecting the brace member to the longitudinally-extending member, and an adjustable means mounted between the sections of said longitudinally-extending member for fixing the brace member in its adjusted position.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

JASPER McMULLAN.

Witnesses:

H. R. BLUM,
H. C. KIMBROUGH.