F. W. KLOKE.

DRAFT BAR FOR FARM MACHINERY.

APPLICATION FILED MAR. 27, 1909.

925,197.

Patented June 15, 1909.

2 SHEETS—SHEET 1.

Fig. 1.

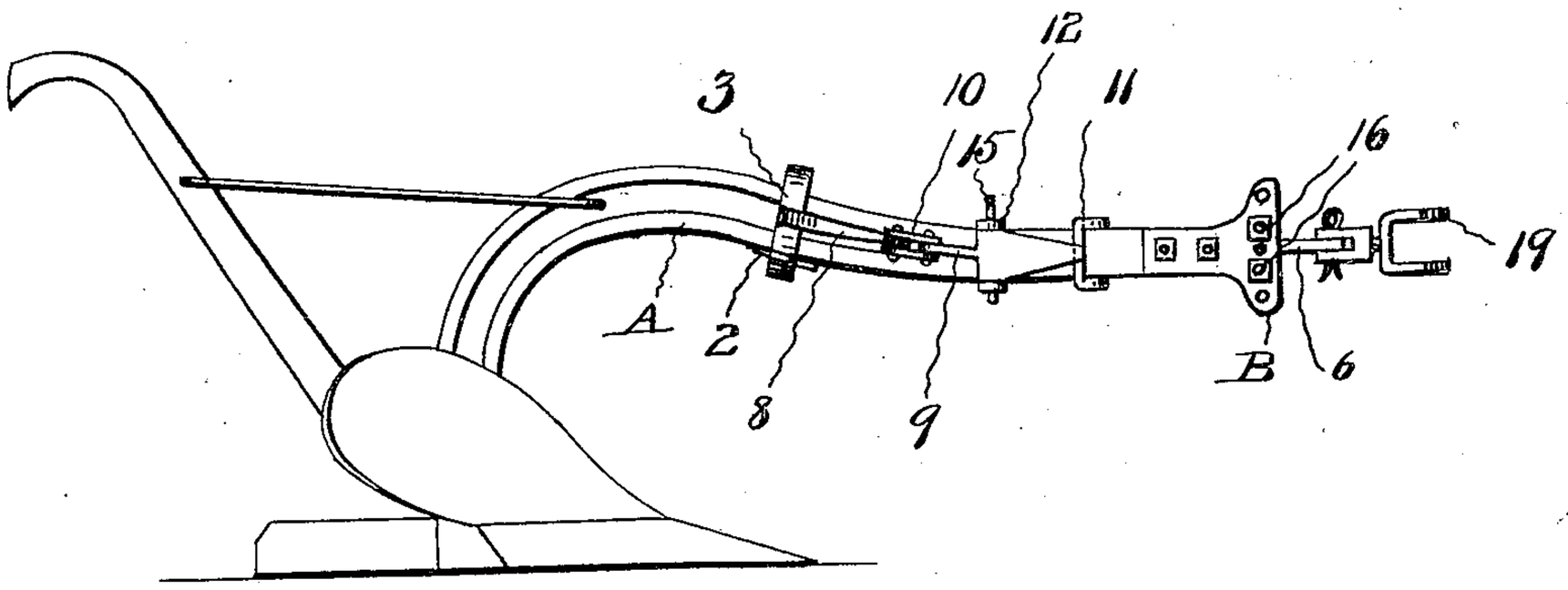


Fig. 2.

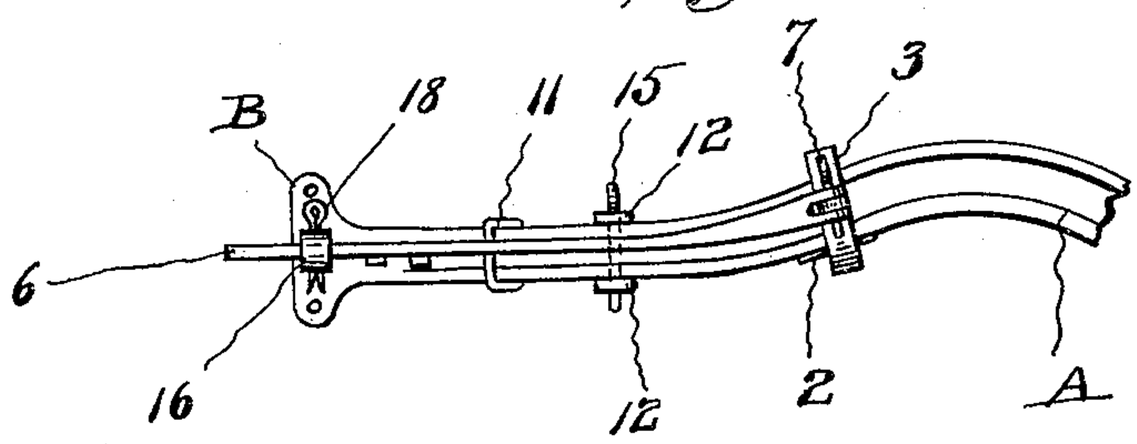
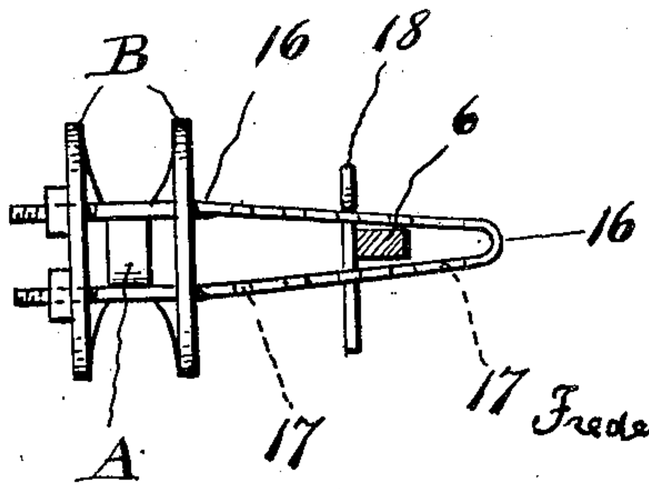


Fig. 6.



Witnesses

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2 SHEETS—SHEET 2.

Fig. 3.

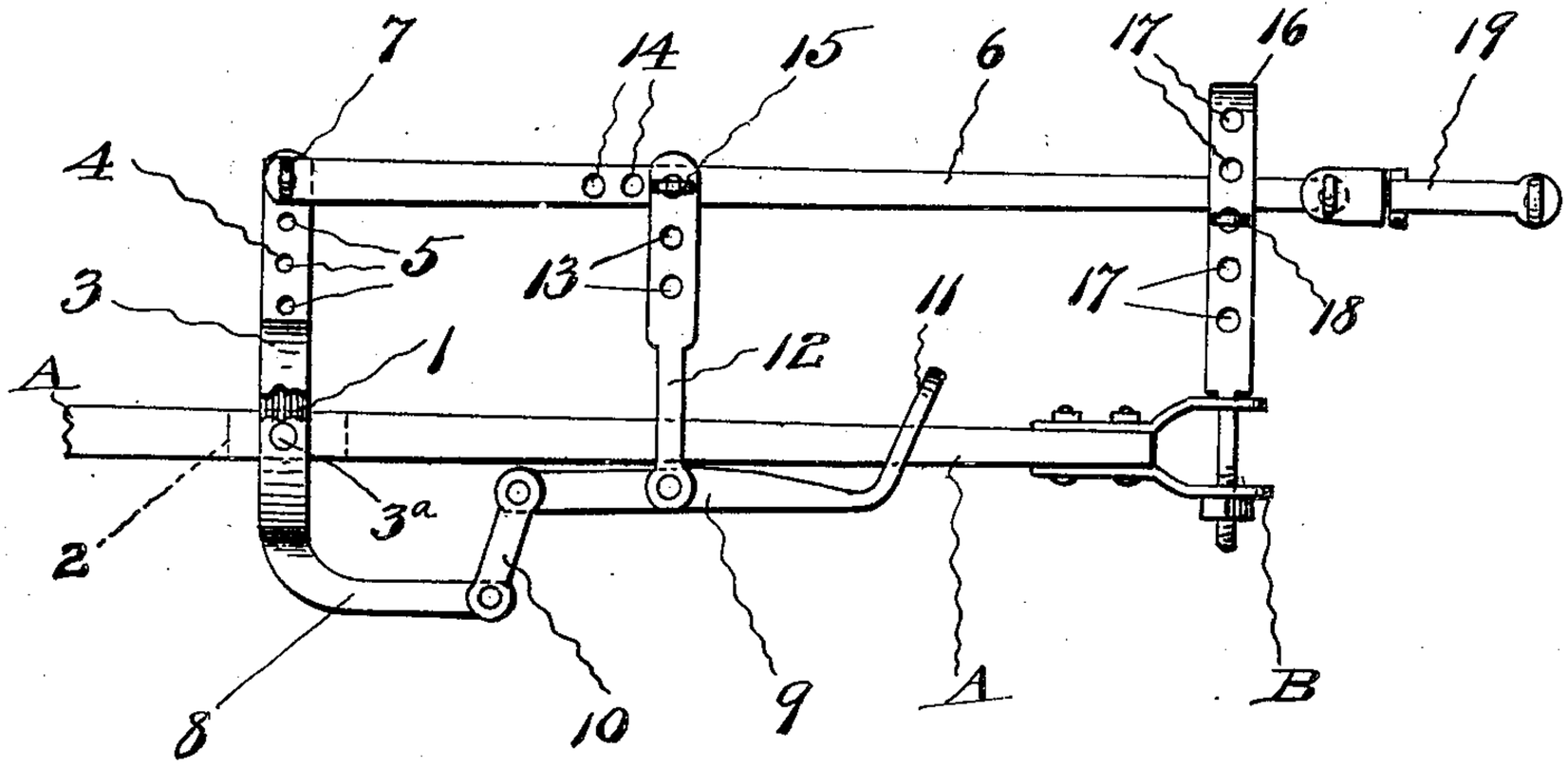


Fig. 4.

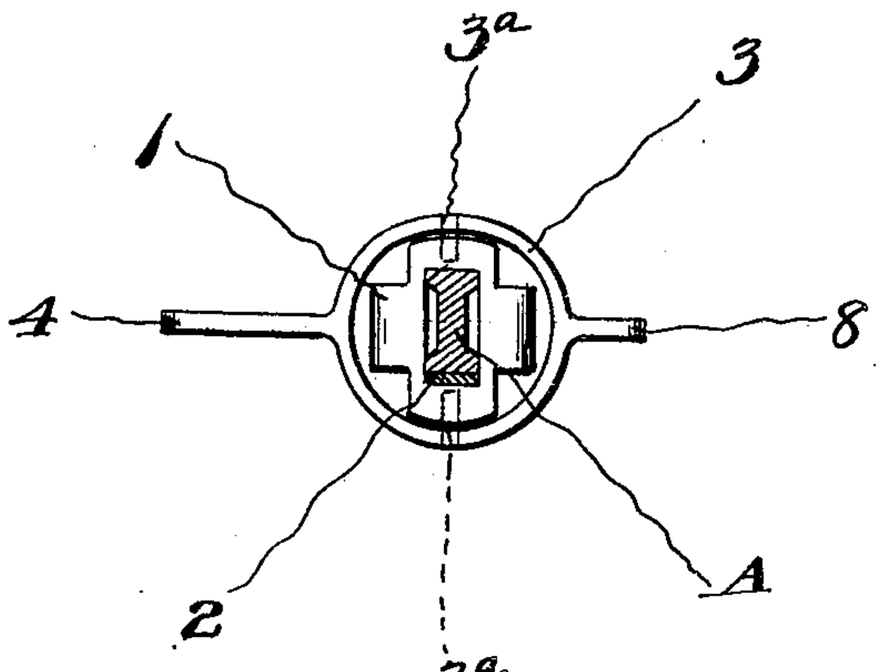
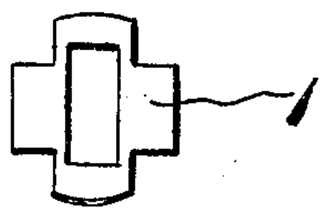


Fig. 5.



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UNITED STATES PATENT OFFICE.

FREDERICK WILLIAM KLOKE, OF WESTPOINT, NEBRASKA.

DRAFT-BAR FOR FARM MACHINERY.

No. 925,197. Specification of Letters Patent. Patented June 15, 1909.

Application filed March 27, 1909. Serial No. 486,104.

To all whom it may concern:

Be it known that I, FREDERICK WILLIAM KLOKE, a citizen of the United States, and a resident of Westpoint, in the county of Cuming and State of Nebraska, have invented certain new and useful Improvements in Draft-Bars for Farm Machinery, of which the following is a specification.

My invention relates to draft appliances for plows and other farm machinery, and has for its object the provision of a device that will overcome the side draft incident to the work being thrown on one side of the line of draft defined by the plow-beam or draft-pole of the machine.

The construction and operation of my improved device will be described hereinafter and illustrated in the accompanying drawings, in which—

Figure 1 is a view of one side of a plow, showing my improved device in position; Fig. 2, a view of the opposite side of the plow-frame; Fig. 3, a top plan view, Fig. 4, a view of a cross-section of the beam, showing the boxing secured to the beam, Fig. 5, a detail view of the block secured to the plow-beam, and Fig. 6, a front view of the plow-beam and draft appliance secured thereto with the draft-bar shown in section.

In the drawings similar reference characters indicate corresponding parts in all of the views.

A indicates the beam of an ordinary plow.

My improved draft appliance is attached to the beam A, and consists of the following parts:

1 indicates a block slipped on beam A and held in position by means of a wedge 2 or other suitable clamping device.

3 indicates a ring pivotally secured to the block 1 above and below the beam, as shown at 3^a.

4 indicates an arm extending from ring 3 away from the land side of beam A and provided with a series of holes 5. 6 indicates the draft-bar secured at its rear end in one of said holes 5 by means of split pin or bolt 7, the position of the rear end of the draft-bar being regulated in said holes to suit the width of furrow to be cut. 8 indicates an arm extending from the other side of ring 3 from arm 4, toward the front of the beam A, and 9 a lever having one end secured to the free end of arm 8 by means of links 10 and its other end formed with an open loop 11 at an angle to said lever and embracing the beam A.

12 indicates links pivotally secured to lever 9 intermediate of its ends and extending above and below the beam A to the land side of the plow, said links 12 being provided with a series of holes 13, and the draft-bar also provided with a series of holes 14 to receive a pin or bolt 15 to secure the links 12 to said draft-bar, the pin or bolt 15 being secured in the proper holes in the links and draft-bar to secure the most efficient operation of the plow.

16 indicates a bifurcated brace secured to clevis B on the end of the plow-beam and provided with a series of holes 17 to receive a pin or bolt 18 to regulate the distance of the front end of the draft-bar 6 from the front end of the beam A.

19 indicates a clevis on the front end of draft-bar 6, to which the draft-animals are attached.

In operation the draft is applied to the beam A principally through the front end of lever 9, which bears against the side of beam A at different positions determined by the position of the pins 7, 15, and 18 in the holes 5, 13, and 14, and 17, respectively, the depth of the cut being determined by the position of the rear end of the draft-beam on the arm 4. When it is secured near the draft-beam it will be apparent that the nose of the plow will be thrown toward the land side, while when adjusted farther away from the beam the nose will be thrown toward the furrow and make a narrower cut. This, however, can be regulated by positioning the pin 15 in holes 13 and 14 so as to throw the front end of the lever toward and away from the front end of the beam. The nearer the front end of the beam the pressure is exerted the wider will be the cut; also, by positioning the pin 18 in holes 17 in brace 16, as the angle of the draft-bar to the plane of the plow-beam will enter into determination of the width of the cut. The proper positions of the different pins can only be determined by experimentation, but it will be understood that the depth of the cut may be adjusted, as stated, without side draft on the

animals, and also that the swingle-trees may be longer than the swingle-trees commonly used on plows where my device is not employed, because the necessity of hitching the animals as near the center of draft as possible, as it exists at the present time, is entirely eliminated.

I have shown and described my draft-bar attached to a beam-plow, but it will be understood that with slight alterations it may be applied to harvesting machines, mowers, and other machinery where there is side draft, so that I do not limit myself to the application of the device to beam-plows nor to the exact construction shown and described, except where specifically claimed hereinafter.

Having thus described my invention, what I claim is—

1. In combination with a draft-beam, a block secured thereto, arms pivotally secured to said block, a draft-bar secured to one arm, a lever secured to the other arm and bearing against the draft-beam, and links secured to the lever and to the draft-bar, substantially as shown and described.

2. In combination with a draft-beam, a block secured thereto, arms pivotally secured to said block, one of said arms provided with a series of holes, a draft-bar having its rear end pivotally secured in one of said holes, a lever secured to the other arm, links pivotally secured to said lever and having a series of holes therein, and the draft-bar provided with a series of holes, said links being adjustably secured to said draft-bar through one each of said series of holes, substantially as shown and described.

3. In combination with a draft-beam, a block secured thereto, arms pivotally secured to said block, a draft-bar secured to one arm, a lever secured to the other arm and bearing against the draft-beam, links secured to the lever and to the draft-bar, a bifurcated brace secured to the front of the draft-beam and embracing the front end of the draft-bar, and means secured to the brace-bar to adjust the position of the front of the draft-bar relative to the front of the draft-beam, substantially as shown and described.

4. In combination with a draft-beam, a block secured thereto, arms pivotally secured to said block, one of said arms provided with a series of holes, a draft-bar having its rear end pivotally secured in one of said holes, a lever secured to the other arm, links pivotally secured to said lever and having a series of holes therein, the draft-bar provided with a series of holes, the links adjustably secured to said draft-bar through the holes in the links and draft-bar, a bifurcated brace secured to the front of the draft-beam and inclosing the front end of the draft-bar, and means secured to the brace-bar to adjust the position of the front of the draft-bar relative to the front of the draft-beam, substantially as shown and described.

5. In combination with a draft-beam, a block secured thereto, a ring pivotally secured to said block, arms extending from said ring one on each side of the draft-beam, one of said arms provided with a series of holes, a draft-bar secured at its rear end in one of said holes, links pivotally secured to the other arm, a lever secured at one end to the said links and having a loop in its other end inclosing the draft-beam, links pivotally secured to the lever intermediate of its ends and having a series of holes therein, the draft-bar provided with a series of holes, the links and draft-bar secured together through one each of said series of holes, a bifurcated brace secured to the front end of the draft-bar, said brace provided with a series of alined holes, and a pin inserted in said holes and engaging the front of the draft-bar, substantially as shown and described.

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

FREDERICK WILLIAM KLOKE.

Witnesses:
CHRIS. RUPP,
F. D. HUNTER.