(No Model.)

W. M. BOMAR.

WHEEL PLOW OR CULTIVATOR.

No. 590,960. Patented Oct. 5, 1897.

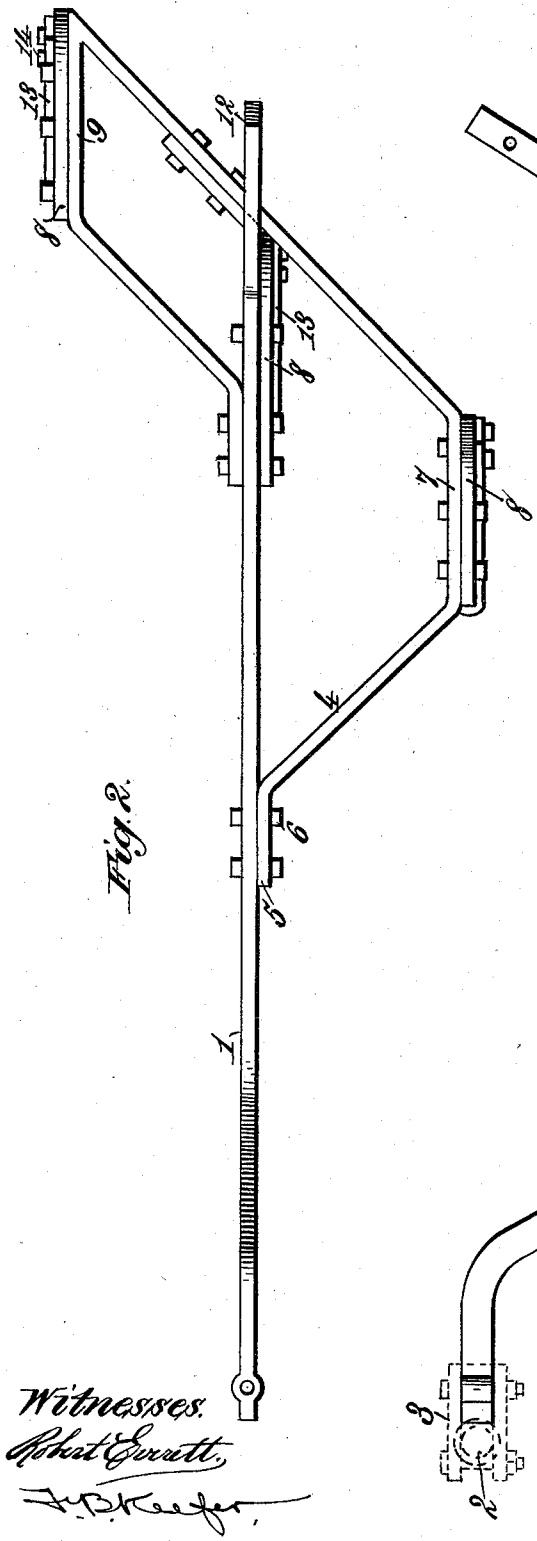

Fig. 2.

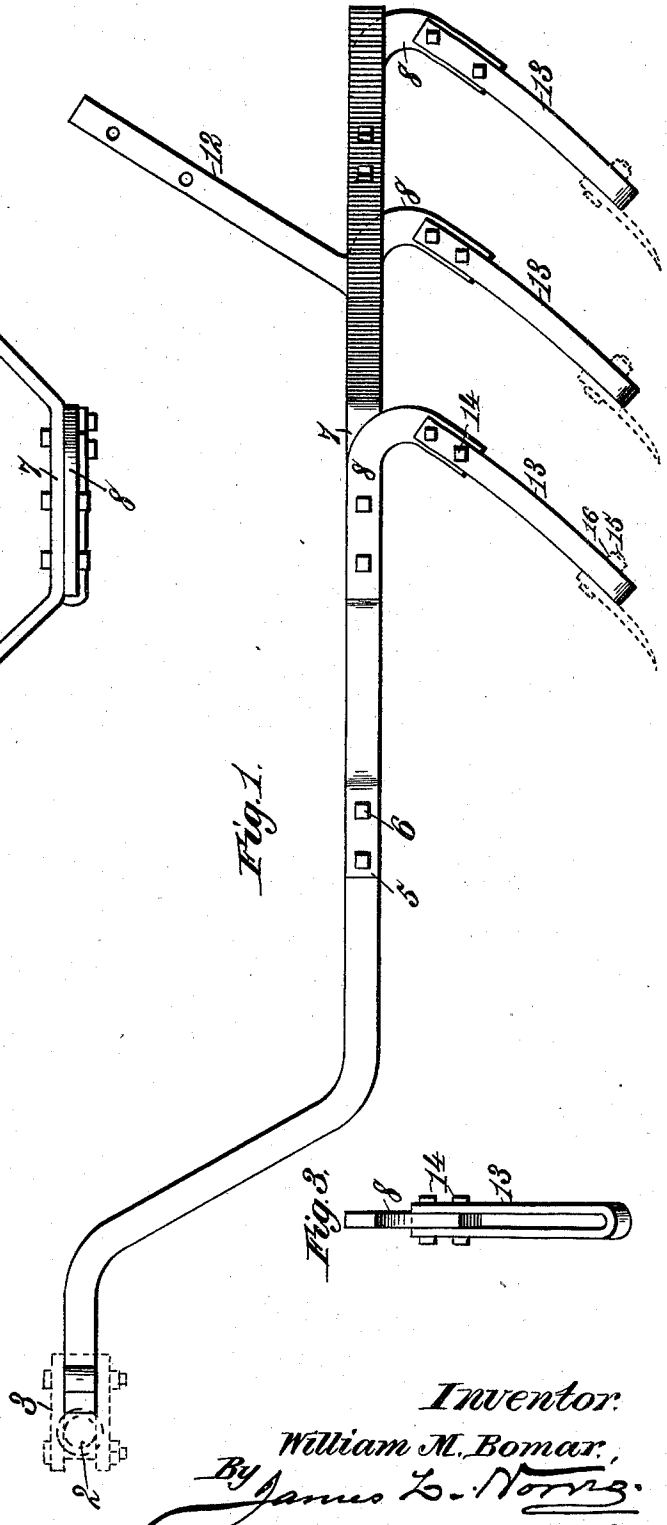

Fig. 1.

Fig. 3.

Witnesses.
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UNITED STATES PATENT OFFICE.

WILLIAM MATISON BOMAR, OF SPARTANBURG, SOUTH CAROLINA.

WHEEL PLOW OR CULTIVATOR.

SPECIFICATION forming part of Letters Patent No. 590,960, dated October 5, 1897.

Application filed March 3, 1897. Serial No. 625,846. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM MATISON BOMAR, a citizen of the United States, residing at Spartanburg, in the county of Spartanburg and State of South Carolina, have invented new and useful Improvements in Wheel Plows or Cultivators, of which the following is a specification.

My invention relates to wheel plows or cultivators, my purpose being to provide a novel construction and organization whereby I obtain greater strength and stability and a lighter structure.

It is a further purpose of my invention to provide a cultivator in which the plows are mounted upon an angle-bar formed in a single piece and secured to a beam or sweep, one beam for the left hand and one for the right hand.

It is my object to provide a plow of this type which may be converted at will into a right-hand or a left-hand plow.

The invention consists to these ends in the novel features of construction and new combinations of parts hereinafter fully described, and then particularly pointed out and defined in the claims, the same being an improvement upon the invention contained in the Letters Patent granted to me the 20th day of August, 1895, No. 544,839.

For the purposes of the following description reference will be had to the accompanying drawings, in which—

Figure 1 is a side elevation of a plow constructed in accordance with my invention. Fig. 2 is a plan view of the same. Fig. 3 is a detail view of one of the plow-supporting loops, with part of the gooseneck by which it is connected to the beam or sweep.

The reference-numeral 1 in said drawings indicates the beam or sweep, which is attached at one end to the axle 2 of the plow, a suitably-constructed clip 3 being provided for this purpose. Upon the beam 1 is attached the angle-bar 4, which carries the plows. This bar consists of a single piece of metal having one end 5 lapped upon the beam 1 at a point near the middle of said beam. The lapped portion is secured by bolts 6, and from the point of attachment the angle-bar diverges laterally and rearwardly from the beam 1, as seen in Fig. 2, the divergence being at an angle of forty-five or fifty degrees, or thereabout. At a suitable distance from the beam 1 the angle-bar is brought into parallelism with the beam and has a section 7 long enough to furnish attachment for a gooseneck 8. Thence the angle-bar converges toward the rear end of the beam at substantially the same angle as that at which it diverges. Passing the rear end of said beam it extends about the same distance on the other side of the same, the rear end of the beam being bent into parallelism and lapped upon and bolted to said angle-bar. The latter makes an angle of about forty-five degrees with the rearward end of said beam or sweep, and at its end, which is about the same distance from the beam as the section 7, the angle-bar is bent at an acute angle to form a straight section 9 parallel with the beam and of sufficient length to form an attachment for a second gooseneck 8. The angle-bar is thence bent into substantial parallelism with the portion passing the rear of the beam 1 and its end is lapped upon and bolted to said beam. I thus obtain a perfectly-balanced, light, and very strong frame to carry the plows. The handles of the plow are attached to upwardly-inclined portions 12, forming part of the rearward portions of the beam 1.

Each gooseneck 8 consists of a flat bar of metal of about the same width and thickness as the angle-bar to which it is bolted. After lapping upon the angle-bar and receiving the bolts the gooseneck curves downward and slightly forward, passing between the two arms of a loop 13, which is united to it by bolts 14, passing through all three arms. The plows are connected to the loops 13 by heel-bolts 15, which pass between the arms of the loop and receive nuts 16 upon their threaded ends, thus permitting a vertical adjustment of the plows.

By the construction I have described each angle-bar carries one plow, the third being carried by the beam 1 midway between the other two.

What I claim is—

1. A wheel plow, or cultivator, having a beam or sweep, and an angle-bar passing the rearward end of said beam at a suitable angle and extending upon both sides thereof, said angle-bar being bent to form sections parallel

with the beam on opposite sides and at equal distances from it, the ends of said angle-bar being thence brought back and lapped and fastened to opposite faces of the beam substantially as described.

2. A wheel plow, or cultivator, having a beam or sweep, an angle-bar passing the rearward end of said beam at an oblique angle and extending equally on both sides thereof, said angle-bar being bent to form sections parallel with the beam on opposite sides and at equal distances from it, the ends of said angle-bar being then brought back to the beam and bolted to the opposite faces thereof, a gooseneck bolted to each parallel section of the angle-bar and an intermediate gooseneck bolted to the beam at its rear end and plows carried by loops bolted to the goosenecks, substantially as described.

3. A wheel plow, or cultivator, having a beam or sweep, an angle-bar making an oblique angle with the rearward end of said beam which is lapped on and bolted to said angle-bar, the latter having sections parallel with the beam, one on each side of said beam, one of said sections being in advance of and the other in rear of the end of said beam, the angle-bar being bent from said parallel sections to and against the opposite faces of said beam and bolted thereto at different points, a gooseneck bolted to each parallel section and one to the rear end of the beam, loops mounted on said goosenecks, and plows secured to the loops by heel-bolts, substantially as described.

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

WILLIAM MATISON BOMAR.

Witnesses:
T. A. GREENE,
W. H. GRIFFIN.