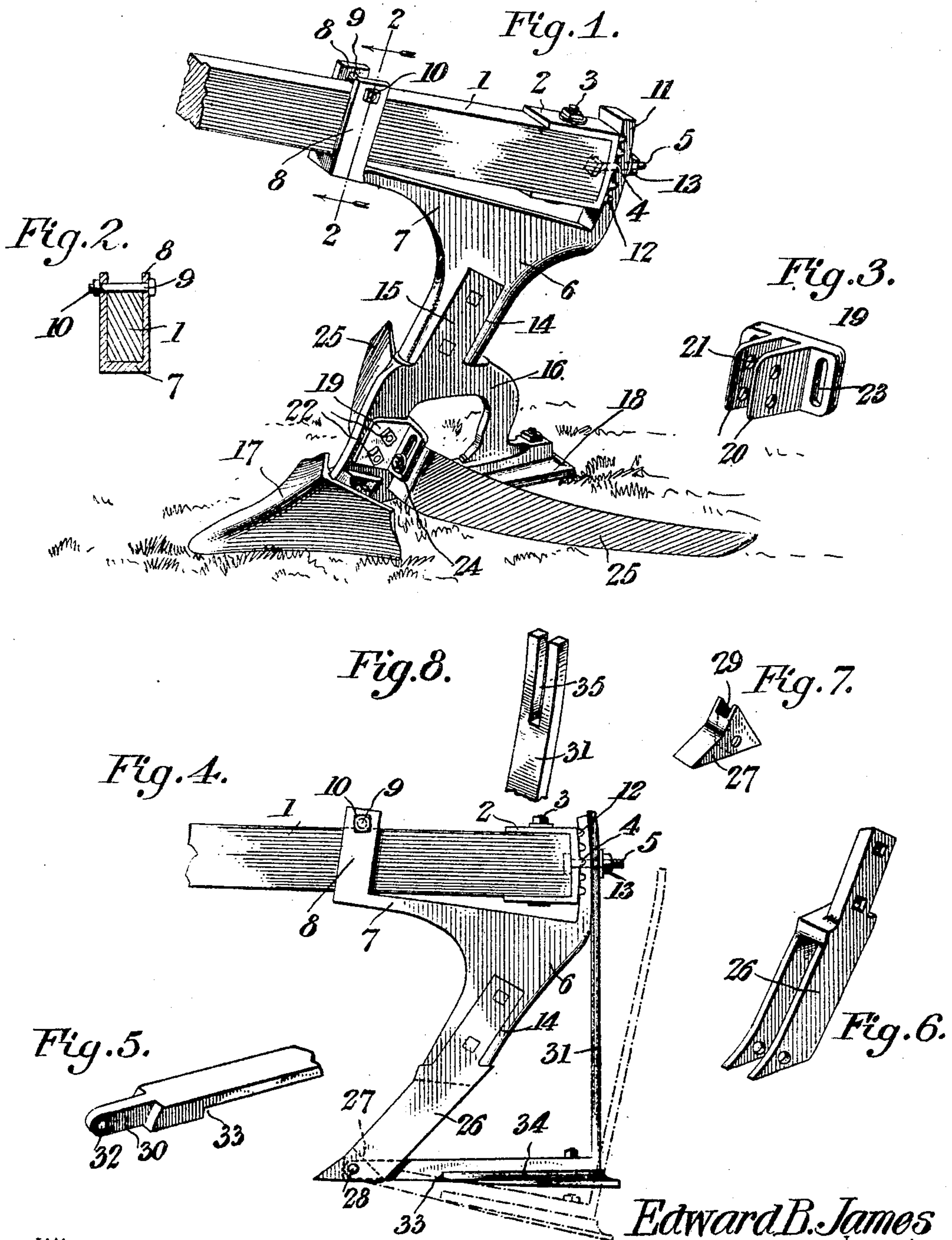


No. 800,650.

PATENTED OCT. 3, 1905.

E. B. JAMES.
PLOW.

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Witnesses
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UNITED STATES PATENT OFFICE.

EDWARD BRADFORD JAMES, OF THOMASVILLE, GEORGIA.

PLOW.

No. 800,650.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, EDWARD BRADFORD JAMES, a citizen of the United States, residing at Thomasville, in the county of Thomas and State of Georgia, have invented a new and useful Plow, of which the following is a specification.

This invention relates to plows; and it has for its object to simplify and improve the construction of the same and to adapt the plow-frame for the reception of various attachments to be used for a variety of purposes and under different conditions.

With these and other ends in view, which will readily appear as the nature of the invention is better understood, the same consists in the improved construction and novel arrangement and combination of parts, which will be hereinafter fully described, and particularly pointed out in the claims.

In the accompanying drawings has been illustrated a simple and preferred form of embodiment of the invention, it being, however, understood that no limitation is necessarily made to the precise structural details therein exhibited, but that the right is reserved to any changes, alterations, and modifications to which recourse may be had within the scope of the invention and without departing from the spirit or sacrificing the efficiency of the same.

In said drawings, Figure 1 is a perspective view of a plow constructed in accordance with the principles of the invention. Fig. 2 is a sectional detail view taken on the line 2 2 in Fig. 1. Fig. 3 is a perspective detail view of the sweep-supporting saddle. Fig. 4 is a side elevation showing a modified construction of the plow-foot used in connection with a sole-supporting frame. Fig. 5 is a perspective detail view showing the point of the sole-supporting frame. Fig. 6 is a perspective detail view of the plow-foot. Fig. 7 is a perspective detail view of the spacing-block. Fig. 8 is a perspective detail view of the upper rear end of the sole-supporting frame.

Corresponding parts in the several figures are indicated by like characters of reference.

The plow-beam 1 is provided at its rear end with a clip or cuff 2, secured thereto by means of a vertical bolt 3 and having upon its rear edge a transverse rib 4. Through the rear portion of this clip or cuff extends a bolt 5, which extends rearwardly from the beam, with which it is firmly connected by means of the clip or cuff aforesaid.

The plow-standard 6 is provided at its upper end with a head 7, provided at the front end thereof with upwardly-extending lugs 8 8, adapted to lie against opposite sides of the beam, with which they are connected by means of a bolt 9, serving to connect said lugs above the beam, upon which latter the lugs are securely clamped by tightening the nut 10 upon the bolt 9. At the rear end of the head 7 is an upstanding flange 11, provided with a plurality of transverse grooves or corrugations 12, any one of which may be placed in engagement with the rib 4 of the cuff 2, the flange 11 being provided with a vertical slot (not shown) for the passage of the bolt 5, which carries a nut 13. It will be seen that by loosening the nuts 10 and 13 the standard may be tilted to various positions, in any one of which it may be secured firmly and rigidly by tightening the said nuts. It will also be observed that the beam is not weakened by perforating it for the passage of the clamping-bolt 9, but that the full strength of the beam is retained. The standard is provided in one side thereof with a socket or recess 14 for the reception of a shank 15 of the plow-foot. In Fig. 1 of the drawings a plow-foot 16 has been shown, consisting of a frame carrying a plow 17 and a sole-piece 18. In connection with this form of plow-foot is used a sweep-supporting saddle 19. (Illustrated in detail in Fig. 3 of the drawings.) Said saddle consists of a plate having a pair of lugs 20, provided with perforations 21 for the passage of bolts 22, whereby it is connected with the plow-standard. The plate which constitutes the saddle is also provided with vertical slots 23 for the passage of bolts 24, by means of which a sweep 25 is connected adjustably with said saddle. The latter, it will be observed, may be readily applied to or disconnected from the plow-standard, and when it is in position the sweep is capable of being raised or lowered to the extent of the lengths of the slots 23, thus enabling it to be adjusted according to the conditions of the work to be performed.

In Fig. 4 of the drawings has been shown a different plow-foot from that illustrated in Fig. 1. The plow-foot, which is here designated 26 and which has been shown in detail in Fig. 6 of the drawings, is of the bifurcated pattern which is customarily used in connection with bull-tongue plows which when used are connected with said foot by means of an ordinary heel-bolt. The plow-foot 26 is pro-

vided at its lower end with a spacing-block 27, which is mounted pivotally upon a pin or bolt 28 and which is provided with a recess 29 for the reception of the point 30 of the heel-frame 31, which said point is likewise perforated at 32 for the passage of the transverse pin or bolt 28. The heel-frame is substantially of L shape, and its lower or horizontal member is provided with a recess 33 for the accommodation of the sole-piece 34. The vertical member of the heel-frame is somewhat resilient, and it is provided at its upper end with a slot 35 for engagement with the bolt 5, which projects rearwardly from the cuff 2 upon the plow-beam. It is important that the vertical member of the heel-frame is made flexible or resilient, as above stated, in order that it may be retained securely in engagement with the rear end of the beam by means of the bolt 5 and nut 13 at various adjustments. Should it be desired, for instance, to secure the heel-plate with the sole in an inclined or tilted position, it is obvious that, the L-shaped heel-frame being integral, its vertical member must be resilient in order to enable it to be placed in engagement with the rear end of the plow. It is obvious that this heel-frame may be set at various inclinations or angles, and it will also be seen that by detaching the nut 13 it may be swung out of the way, as shown in dotted lines in Fig. 4, thus affording access to other parts of the plow which may require to be adjusted.

It will be noticed that the heel-frame is composed of a single piece or jointless casting and that it swings pivotally together with the spacing-block 27 at the lower end of the plow-foot.

This improved plow is simple in construction and is practically useful for a variety of purposes. The parts of the device are largely interchangeable. The saddle 19 may ob-

viously, if desired, be used in connection with the plow-foot 26 within the scope of the invention.

Having thus described the invention, what is claimed is—

1. A plow-foot, a saddle having lugs spaced from the edges thereof and engaging said foot and provided with vertical slots between the lugs and edges, means for connecting the saddle-lugs with the plow-foot, a sweep, and means for connecting said sweep with the vertical slots of the saddle.

2. In a plow, the combination of a beam, a bolt extending rearwardly from the beam and suitably connected therewith, a bifurcated foot, a spacing-block pivotally connected with the point of the foot and having a recess in its rear side, and a substantially L-shaped heel-frame having the point of its horizontal arm connected with the spacing-block and having a slot at the end of its vertical arm engaging the bolt extending rearwardly from the beam.

3. In a plow, the combination of a beam, a bolt connected with and extending rearwardly from the beam, a standard, a bifurcated foot connected with the standard, a spacing-block having a recess in the rear side thereof, a bolt or pin connecting the spacing-block pivotally with the plow-foot, and a substantially L-shaped heel-frame engaging the recess in the spacing-block having pivotal connection with the pin or bolt, said heel-frame being provided with a vertical resilient member having a slot engaging the bolt which projects rearwardly from the plow-beam.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

EDWARD BRADFORD JAMES.

Witnesses:

W. H. BIBB, Jr.,
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