

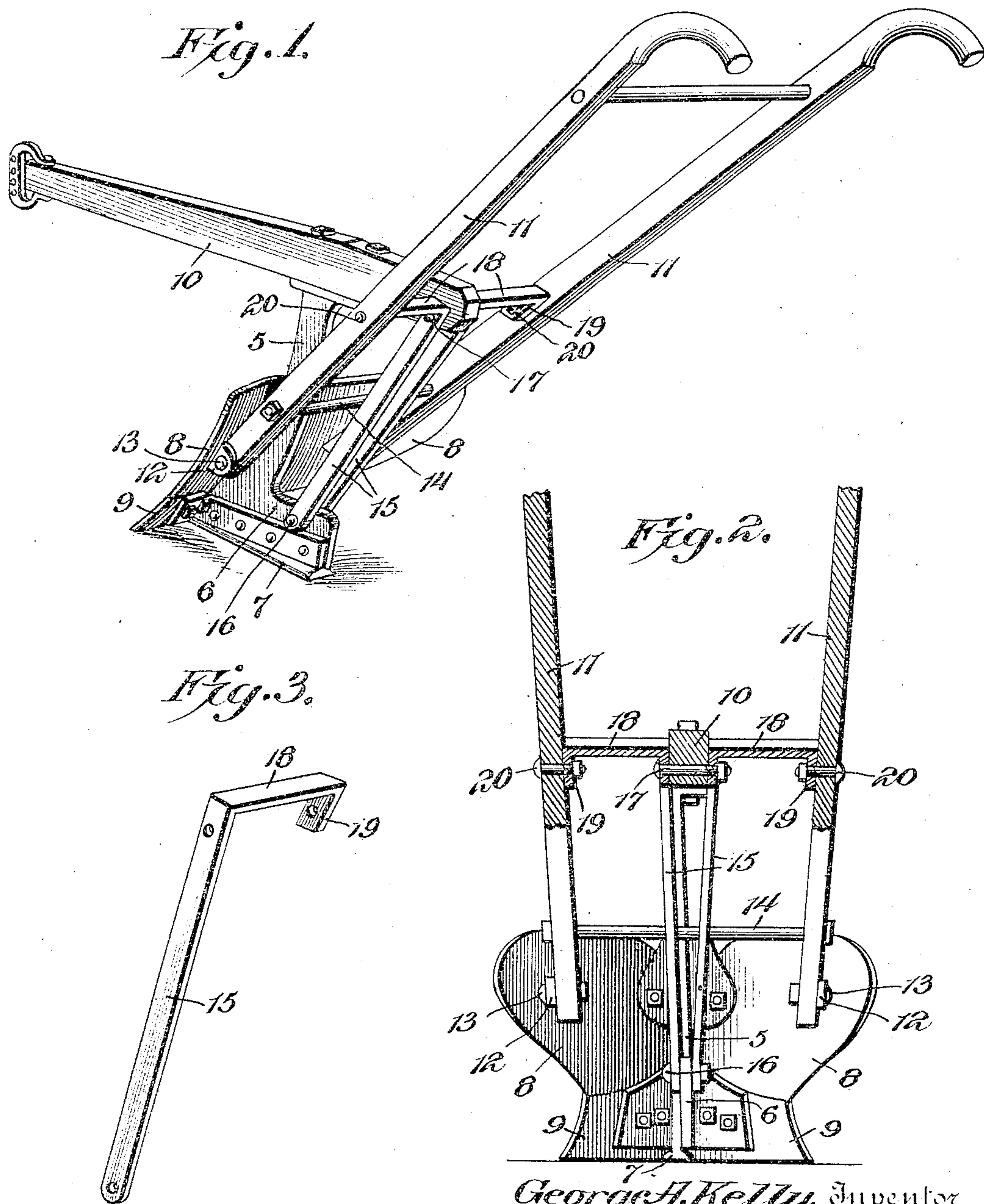
No. 765,843.

PATENTED JULY 26, 1904.

G. A. KELLY.
PLOW.

APPLICATION FILED JULY 27, 1903.

NO MODEL.



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PLOW.

SPECIFICATION forming part of Letters Patent No. 765,843, dated July 26, 1904.

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To all whom it may concern:

Be it known that I, GEORGE A. KELLY, a citizen of the United States, residing at Longview, in the county of Gregg and State of Texas, have invented a new and useful Plow, of which the following is a specification.

This invention relates more particularly to means for connecting and bracing the body, beam, and handles of a plow.

The object is to provide extremely simple means of the above character that will constitute rigid connections between the parts and hold the same against relative movement, said means being easily and cheaply constructed and readily applied to the plow when the same is assembled.

The improved structure is shown in connection with a double plow, commonly known as a "middle-burster," though the improvements are applicable to those of other classes, and particularly to those having the lower ends of the handles connected to the plow-body.

In the drawings accompanying this specification, Figure 1 is a rear perspective view of a plow having the improvements applied thereto. Fig. 2 is a rear elevation of the same, portions being shown in section. Fig. 3 is a detail perspective view of one of the braces.

Similar reference-numerals indicate corresponding parts in all the figures of the drawings.

In the embodiment illustrated the plow-body includes a standard 5, having a rearwardly-extending heel 6 at its lower end, said heel carrying a shoe 7. Oppositely-extending moldboards 8 and points or shares 9 are carried by the standard and are connected thereto in any well-known or desired manner. A beam 10 of the usual construction is secured to the upper end of the standard and projects in rear of the same above the heel 6. Handles 11 are secured at their lower ends to lugs 12, projecting from the rear sides of the moldboards on opposite sides of the standards. These handles extend upwardly and rearwardly on opposite sides of the rear end of the beam, being spaced some distance therefrom. A single bolt 13 is employed for connecting the lower end of each handle to its lug, while a tie-bolt 14 connects

the handles in rear of the standard and between the beam and heel.

In connection with the above-described structure novel braces are employed comprising upright or upstanding portions 15, connected at their lower ends by means of a single bolt 16 to the rear portion of the heel and located on opposite sides of said heel. The upper ends of the upright portions embrace the rear end of the beam and are attached thereto by a single bolt 17, passing through the same. Said upper ends, furthermore, carry sharply-outturned portions 18, that are located at substantially right angles to the upright portions and are disposed between the beam and the handles. These out-standing portions are located in substantially horizontal relation, and their outer ends are provided with depending ears 19, resting against the inner faces of the handles 11 and secured thereto by bolts 20.

By these means the heel of the standard and the beam are rigidly connected by braces that act in the nature of a truss, for the reason that the beam being thicker than the heel, as illustrated in Fig. 2, the upright portions of the braces will be convergently disposed. The sharply-outturned portions, disposed in substantially horizontal relation and at right angles to the upright portions, are also advantageous, as they connect the beam and handles in such a manner as to prevent said handles spreading or moving toward each other. The braces, moreover, are peculiarly useful on a plow wherein the lower ends of the handles are connected to the body and in spaced relation to the standard, for by this arrangement practically four connections are obtained between the lower portion of the body and the rear end of the beam, thus strongly bracing the various members and holding them against relative movement. The braces in themselves are extremely simple, as will be evident by reference to Fig. 3. Moreover, in view of the fact that they can be constructed of bar metal and by machines it will be evident that they may be manufactured very cheaply. A still further advantage resides in the fact that the number of bolts em-

played for connecting the lower ends of the handles to the moldboards is reduced, thus lessening the cost of these connections and at the same time strengthening the handles
5 by obviating the necessity of a plurality of bolt-holes therein.

From the foregoing it is thought that the construction, operation, and many advantages of the herein-described invention will be ap-
10 parent to those skilled in the art without further description, and it will be understood that various changes in the size, shape, proportion, and minor details of construction may be resorted to without departing from
15 the spirit or sacrificing any of the advantages of the invention.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

20 1. In a plow, the combination with a plow-body, of a beam attached thereto, handles connected at their lower ends to the forward portion of the body and extending upwardly on opposite sides of the beam, and braces at-
25 tached at their lower ends to the body in rear of the lower ends of the handles, said braces having intermediate portions secured to the beam and outturned upper ends that are se-
30 cured to the handles and constitute braces between the same and the beam.

2. In a plow, the combination with a plow-body including a standard, a moldboard, and

a heel, of a beam attached to the standard, handles secured to the moldboard and extend-
ing upwardly on opposite sides of the beam, 35 and braces secured at their lower ends to the heel and at intermediate portions to the beam, said braces having outturned upper portions attached to the handles on opposite sides of the beams and constituting bracing connec- 40 tions between the same and the handles.

3. In a plow, the combination with the body, including a standard, a moldboard and heel, of a beam attached to the upper end of the standard, handles secured at their lower ends 45 to the rear portion of the moldboard below the beam and extending upwardly on opposite sides of said beam, and braces having upright portions connected at their lower ends to the heel and at their upper ends to the rear 50 end of the beam, said braces having sharply-outturned upper portions located at substantially right angles to the upright portions and disposed between the beam and handles, the outer ends of said upper portions being se- 55 cured to the handle in substantially a horizontal line with the rear end of the beam.

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

GEORGE A. KELLY.

Witnesses:

R. M. KELLY,
L. D. KELLY.