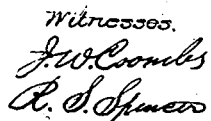


Shovel-Plow.

Patented Aug. 14, 1860.



J. R. Bend
per Mumf.
Atty.

UNITED STATES PATENT OFFICE.

JOHN P. BOND, OF GREENWOOD, SOUTH CAROLINA.

IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. **29,564**, dated August 14, 1860.

To all whom it may concern:

Be it known that I, J. P. BOND, of Greenwood, in the district of Abbeville and State of South Carolina, have invented a new and Improved Method of Bracing Plow-Stocks; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 represents a side elevation of a shovel-plow with the shovel removed from the stock; Fig. 2, a view of the under side of the plow stock, brace, beam, and handles.

Similar letters of reference indicate corresponding parts in both figures.

The object of this invention is to construct the ordinary single-shovel plow in such a manner that it will not need the usual diagonal brace, which greatly obstructs the forward movement of the plow through the ground on account of its gathering weeds, grass, &c., and it will be firmly and rigidly braced and secured against backward pressure.

To enable those skilled in the art to fully understand my invention, I will proceed to describe its construction and operation.

In the drawings, A represents the plow-beam, which is made of the usual length and strength.

B B are the stilts or handles for the plowman to manage the machine as it is drawn through the land by the team, which are attached to the hooks C C, either one or the other.

The rear end of the beam A is beveled off and tenoned and set into the stock E in the

usual manner with the stock in a forward-inclined state, as shown in Fig. 1.

The handles B proceed out from each side of the stock, and are connected with it by a transverse bar, D, in the usual manner.

The lower end of the stock E is rounded off, while the front surface is plain and straight for receiving the shovel, which is not shown in the drawings.

Now, in order to strengthen the stock and keep it rigidly braced in its proper position, instead of passing an iron bar through the stock, carrying it forward and passing through the beam, I use a curved iron brace, G, that is made of wrought-iron, which is secured to the stock D by screws and the bolt that secures the shovel to the stock, and passing along the back of the lower part of the stock it is curved out from the stock, as shown in Fig. 1. Then, passing through a mortise cut through the stock up close to the beam, it is carried along under the beam and bolted at a to the beam. Along where this iron brace G is in contact with the stock it may be flattened out quite thin; but at the back or curve it should be strong and substantial.

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

The arrangement of the curved brace G, beam A, with its clevises C C, stock E, cross-bar D, and stilts B B, as and for the purpose herein shown and described.

JOHN P. BOND.

Witnesses:

J. M. MOSELEY,

G. M. HARRISON.