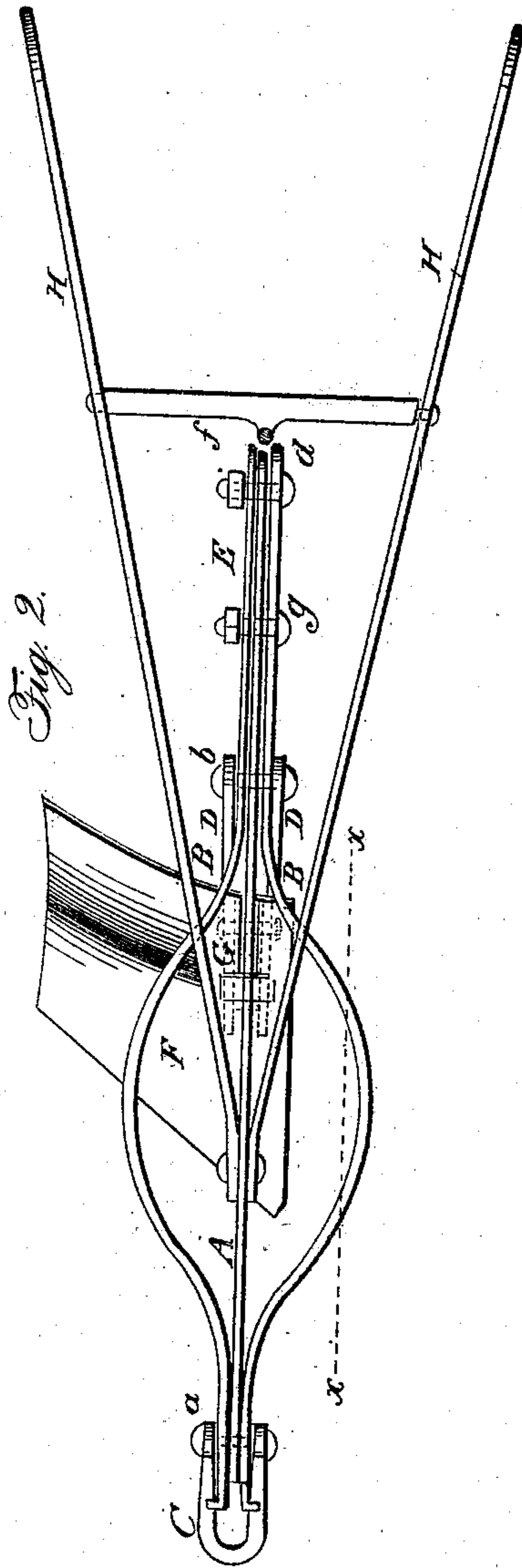


## Shovel-Plow.

No. { 1,048, }  
 { 32,052. }



**Witnesses:**  
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# UNITED STATES PATENT OFFICE.

GEO. W. COOPER, OF PALMYRA, GEORGIA.

## IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. **32,052**, dated April 16, 1861.

*To all whom it may concern:*

Be it known that I, GEO. W. COOPER, of Palmyra, in the county of Lee and State of Georgia, have invented a new and Improved Plow; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is a side sectional view of my invention, taken in the line *x x*, Fig. 2. Fig. 2 is a plan or top view of the same with the handle-brace bisected and a portion removed.

Similar letters of reference indicate corresponding parts in the two figures.

The object of this invention is to obtain a plow that may be constructed extremely light, be exceedingly strong and durable, and capable of having its share readily adjusted to plow more or less deep, as desired.

To enable those skilled in the art to fully understand and construct my invention, I will proceed to describe it.

A represents a flat steel bar, perfectly straight, to each side of which a steel bar, B, is secured. The bars B B have each a curved and straight portion. They are longer than A and project behind it a suitable distance, perfectly straight and parallel with each other, as shown clearly in Fig. 2. The front parts of the bars B B and A are connected firmly together by the bolt *a* of the clevis C, and the back part of the bar A is connected to the bars B B by a bolt, *b*. The bars B B are curved or bowed at each side of the bar A at a point about opposite the center of the latter, as shown in Fig. 2. The three bars A B B, thus formed and connected together, constitute a very light, strong, and durable beam.

The bolt *b*, which connects the back part of the bar A to the bars B B, also connects two bars D D to B B. These bars D D, from the plow-standard and between them, at a point

near their lower ends, the front end of a curved bar, E, is secured by a bolt, *c*. The back part of bar E passes up between the back parts of the bars B B, and is secured thereto by a bolt, *d*, which passes through either of a series of holes *e* in bar E.

To the lower parts of the bars D D, and at their front sides a share, F, is secured by a bolt, G, which passes between the bars D D. The share F may be of any desired form, and different kinds may be attached to the bars D D, as the nature of the work may require.

The bars D D and E may be of steel, and the handles H H may also be of thin steel bars, connected at their front ends to the bar A by a bolt, *e*. The handles H H are connected by the upper part of a T-shaped bar, *f*, the lower end of said bar being connected to the bars B B by a bolt, *g*.

The share F may be more or less inclined, so as to plow a greater or less depth by adjusting the bar E higher or lower between the bars B B, the bars D D being allowed to turn or swing freely on the bolt *b*.

The plow thus constructed is extremely strong and durable, there are no parts liable to break, for in case of the implement being suddenly arrested in its movements by a stump, stone, or obstruction of any kind the parts yield or give, and are thereby prevented from breaking.

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

The arrangement of the curved adjustable bar E and the swinging standard D D with the curved bars B B and beam A, all as herein shown and described, for the purpose set forth.

GEO. W. COOPER.

Witnesses:

S. E. THOMAS,  
W. S. SIMMONS.