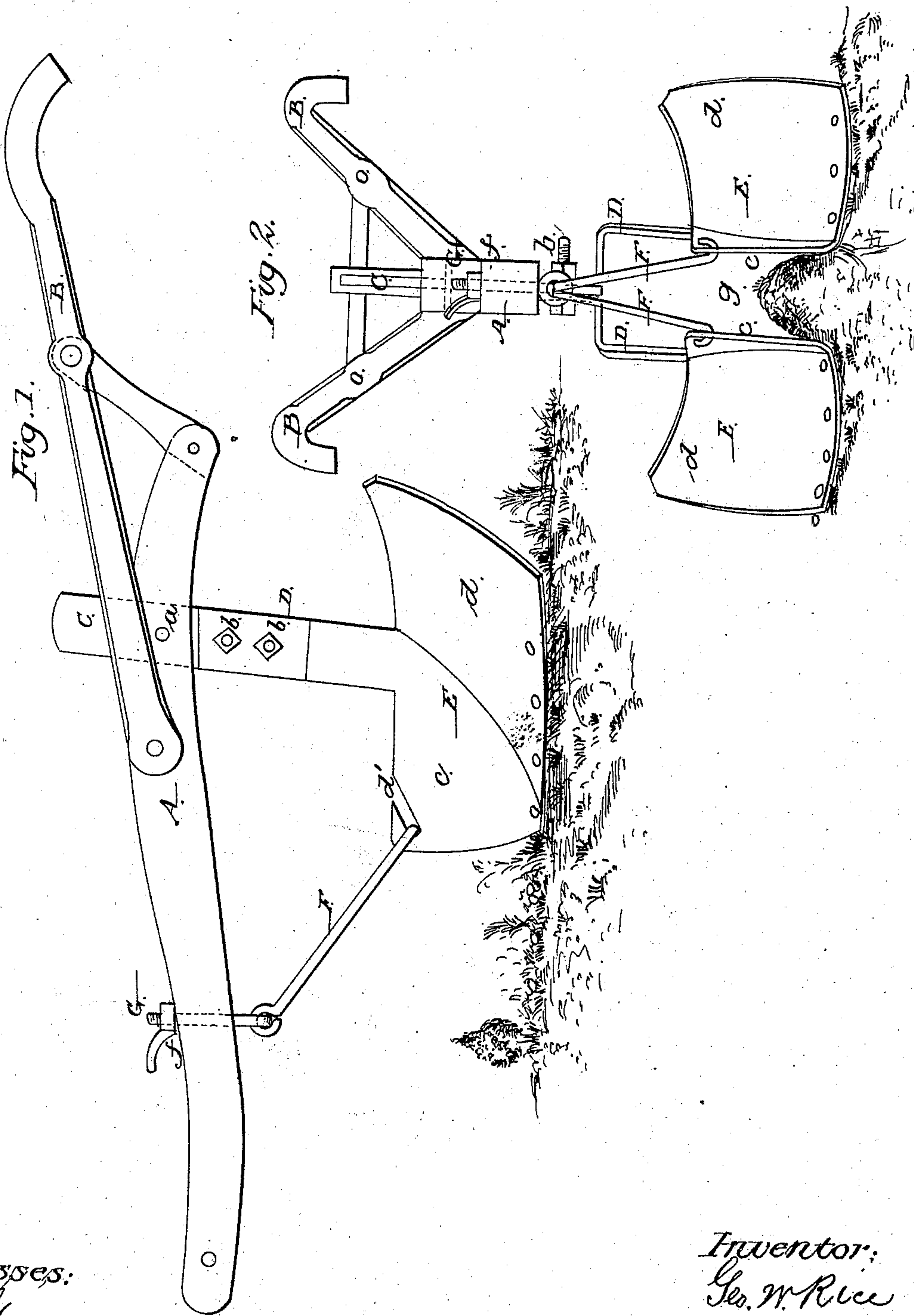


G. W. RICE.  
Shovel Plow.

No. { 1,078, }  
      { 32,082. }

Patented Apr. 16, 1861.



Witnesses:  
J. W. Coombs  
R. S. Spencer

Inventor:  
Geo. W. Rice  
per *Wm. H. B.*  
attorney

# UNITED STATES PATENT OFFICE.

GEORGE W. RICE, OF DEMOPOLIS, ALABAMA.

## IMPROVEMENT IN COTTON-CULTIVATORS.

Specification forming part of Letters Patent No. 32,082, dated April 16, 1861.

*To all whom it may concern:*

Be it known that I, GEORGE W. RICE, of Demopolis, in the county of Marengo and State of Alabama, have invented a new and Improved Cotton-Scraper; 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 elevation of my invention. Fig. 2 is a front view of the same.

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

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

A represents the beam of the scraper-plow, and B B handles, which may be attached to the beam in the usual or in any proper way.

C is a flat metal bar, which passes through the beam A in or about a vertical position, and is secured therein by a pin, *a*. To the lower part of the bar C there are attached two metal bent bars, D. These bars D are bent in right-angle form, and are attached to each side of the bar C by screw-bolts *b b*.

To the lower end of each bar D a share, E, is attached. These shares may be formed of a single metal plate, so bent and curved that its front edge, *c*, will be vertical, so as to form a vertical cutter, and the back part, *d*, bent in mold-board form, projecting obliquely back from the front part, *c*. The front parts of the shares E are each notched, as shown at *d'* in Fig. 1, and the back ends of rods F F are hooked into these notches, the front ends of said rods being hooked into an eye, *e*, at the lower end of a screw-rod, G, which passes ver-

tically through the beam A, and has a nut, *f*, on its upper end. The rods F F, it will be seen, serve as braces for the shares E E, and it will also be seen that the bent bars D D admit of a space, *g*, being between the two shares, as clearly exhibited in Fig. 2. This space *g* may increase in width, as occasion may require, by placing washers on the bolts *b b*, which secure them to the bar C. As the machine is drawn along, a share, E, operates at each side of the row, the plants being between them, the draft-animal being made to walk at one side of the row by means of a paddled block placed under the right side of back-band of the harness.

This implement may be very economically constructed, and it is extremely strong and durable.

I am aware that two shares have been attached to plow-beams and cultivators for the purpose of plowing or otherwise operating at both sides of the row at the same time; and I therefore do not claim, broadly, such device irrespective of the construction herein shown and described; but

I claim as new and desire to secure by Letters Patent—

The arrangement of the peculiarly-formed scrapers E E and U-shaped bars D D with each other, and with the standard C, brace-rods F F, adjusting-rod G, and beam A, all as herein shown and described, for the purposes set forth.

G. W. RICE.

Witnesses:

WM. S. FOWLER,  
J. H. EPPER.