

(No Model.)

E. W. DEVENEY.
COTTON SCRAPER AND CULTIVATOR.

No. 605,687.

Patented June 14, 1898.

Fig. 1.

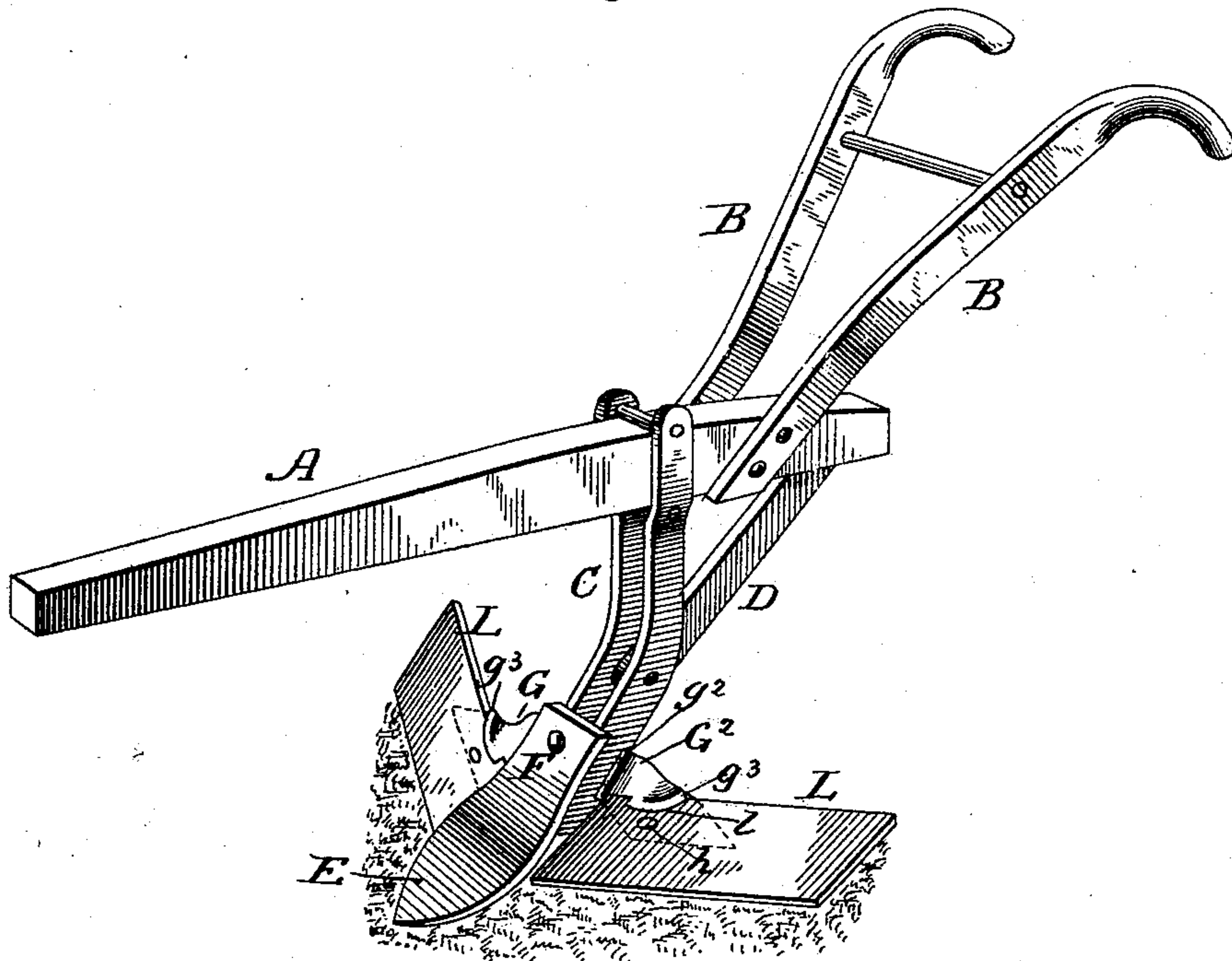


Fig. 2.

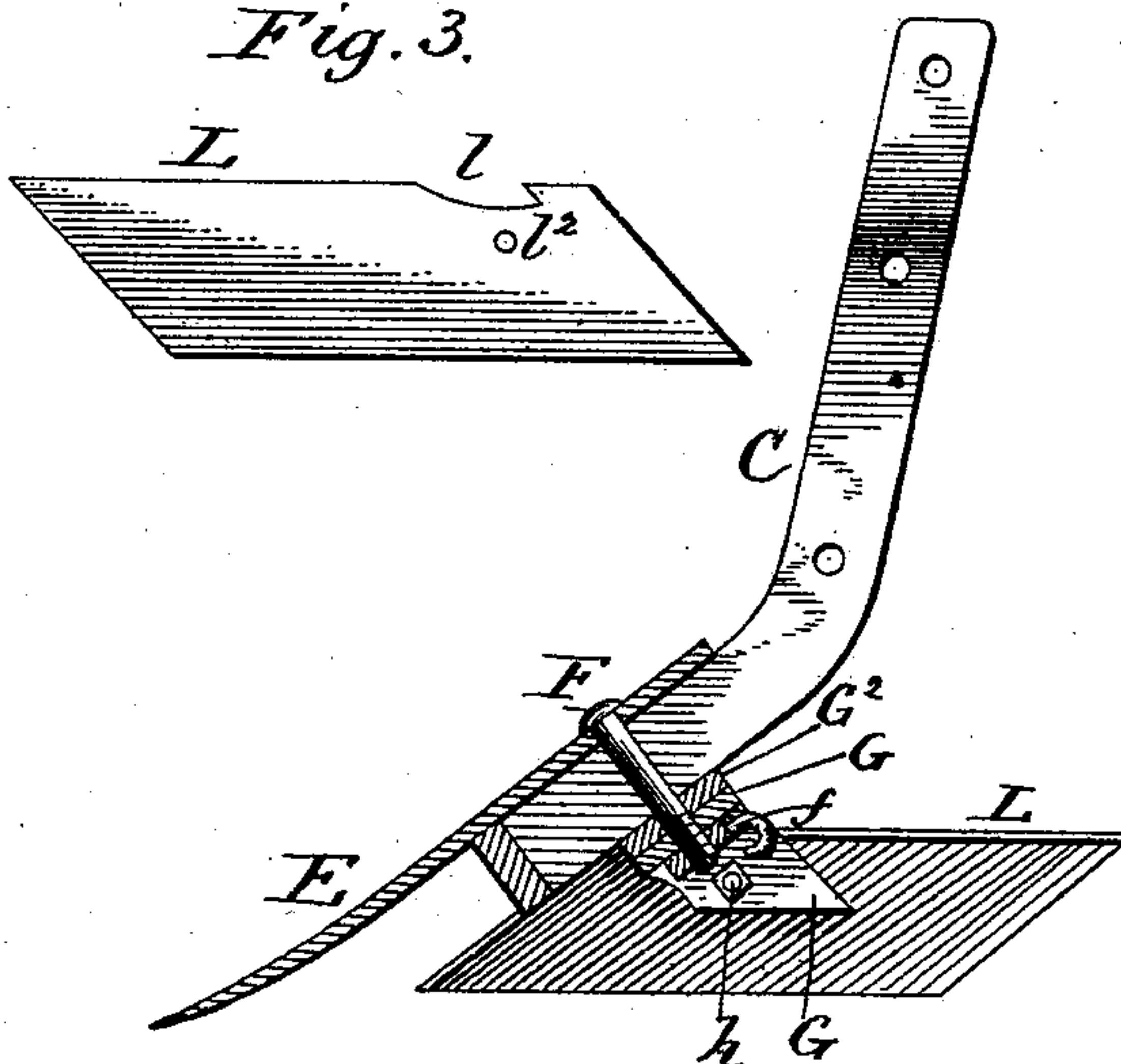


Fig. 4.

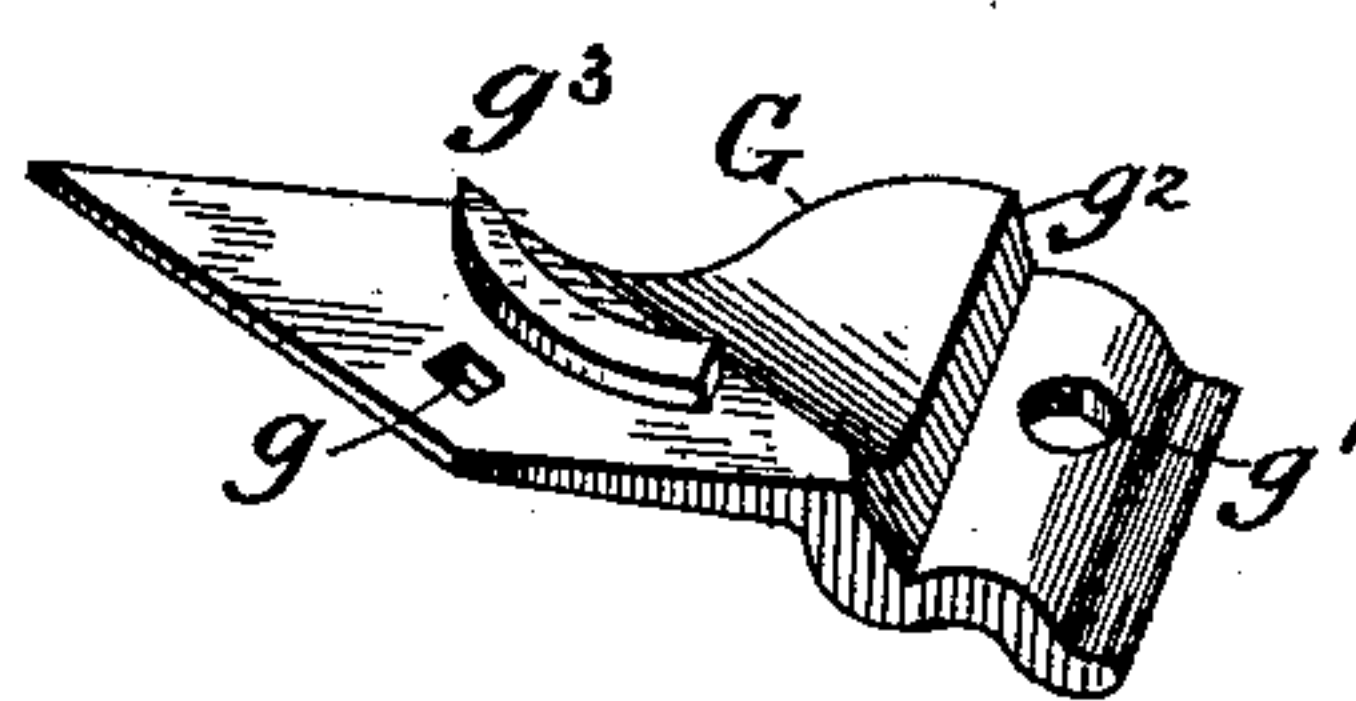
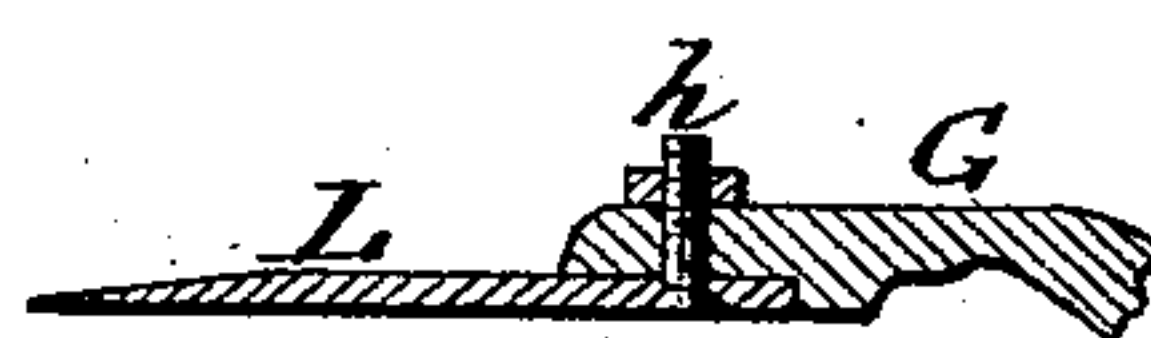


Fig. 5.



Witnesses
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UNITED STATES PATENT OFFICE.

EBER WORTHINGTON DEVENEY, OF AUGUSTA, GEORGIA.

COTTON SCRAPER AND CULTIVATOR.

SPECIFICATION forming part of Letters Patent No. 605,687, dated June 14, 1898.

Application filed February 7, 1898. Serial No. 669,402. (No model.)

To all whom it may concern:

Be it known that I, EBER WORTHINGTON DEVENEY, a citizen of the United States, residing at Augusta, in the county of Richmond and State of Georgia, have invented certain new and useful Improvements in Cotton Scrapers and Cultivators, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to an improvement in scrapers and cultivators which are used especially for the cultivation of cotton and are provided with a head that supports the scraping-wings, said head consisting generally of two separable parts, either one of which can be used independently of the other to permit the cultivator-point to stir the ground close to the roots of the growing plants without danger of injuring the portion thereof projecting above the ground; and the object of my improvement is to materially add to the rigidity of connections between the wings and the head, although reducing the number of bolts used for that purpose. I attain this object by the construction illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of a cotton-scraper constructed in accordance with my invention. Fig. 2 is a longitudinal vertical section of the same removed from the beam. Fig. 3 is a front view of one of the wings. Fig. 4 is a perspective view of one of the two parts forming the wing-carrying head. Fig. 5 represents, on a larger scale, in transverse section, one of the wings and a portion of the wing-carrying head secured thereto.

In said drawings, A represents an ordinary plow-beam provided with handles B and a standard C, constructed preferably of a single bar of wrought-iron bent in the middle of its length and having its ends secured to the beam. The standard is braced to the beam by a bar D, having its lower end secured to the standard and its upper end to the under side of the beam. To the front of the standard is secured an ordinary cultivator-point E by means of the bolt F. Secured to the rear of the standard C by the same bolt is a head formed of two halves G and G², of cast or wrought iron, having their outer ends cut

diagonally. Each half of said head is provided with a perforation g to receive a small bolt h to secure thereto one of the wings or blades L. In the upper edge of each blade, adjacent to its inner end, is formed a segmental recess l to receive therein and have in engagement therewith a correspondingly-formed segmental lug g³, projecting from the face of each half G and G² of the head. The perforation g to receive the bolt h, passing therethrough, being alongside of the convex portion of the lug g³, prevents any rocking of the blade around the periphery of said lug, the bolt h passing also through the perforation l² of the blade. The blades L have the balance of their upper edge and their lower edge straight and parallel and the ends cut off diagonally. Their lower edge is sufficiently sharp to cut any grass and weeds which may be growing between the rows of plants.

The advantages obtained by making the wing-supporting head in two halves are that it permits either half and wing to be used singly in "barring off" or cultivating close to the roots of cotton and corn.

To prevent either the half-head G or G² from turning upon the bolt F when only one of these halves is used at a time, each one is provided with a shoulder g² to abut against the side of the standard, and centrally between this shoulder and the inner end of the head is a perforation g' to receive the bolt F, and a nut f upon the end of said bolt will secure either one of the halves G or G², or both of them together, against the rear of the standard.

Having now fully described my invention, I claim—

1. A cotton-scraper consisting of a plow-beam and handles, a standard, a cultivator-point in front of said standard, a head formed of two parts G and G², each of said parts of the head provided with a lug projecting from its face, and blades therefor, each blade having a recess in its upper edge to receive the said projecting lug substantially as described.

2. In a cotton-scraper the combination of the two divergent blades, each one provided

with a segmental recess in its upper edge and
a perforation alongside of said recess, with
the head provided with segmental lugs pro-
jecting from its face substantially as de-
5 scribed.

3. A cotton-scraper blade having its top
and bottom edges parallel, and within its up-
per edge a segmental recess, with a perfora-

tion alongside of said recess substantially as
described.

In testimony whereof I affix my signature
in presence of two witnesses.

EBER WORTHINGTON DEVENEY.

Witnesses:

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A. M. MILLER.