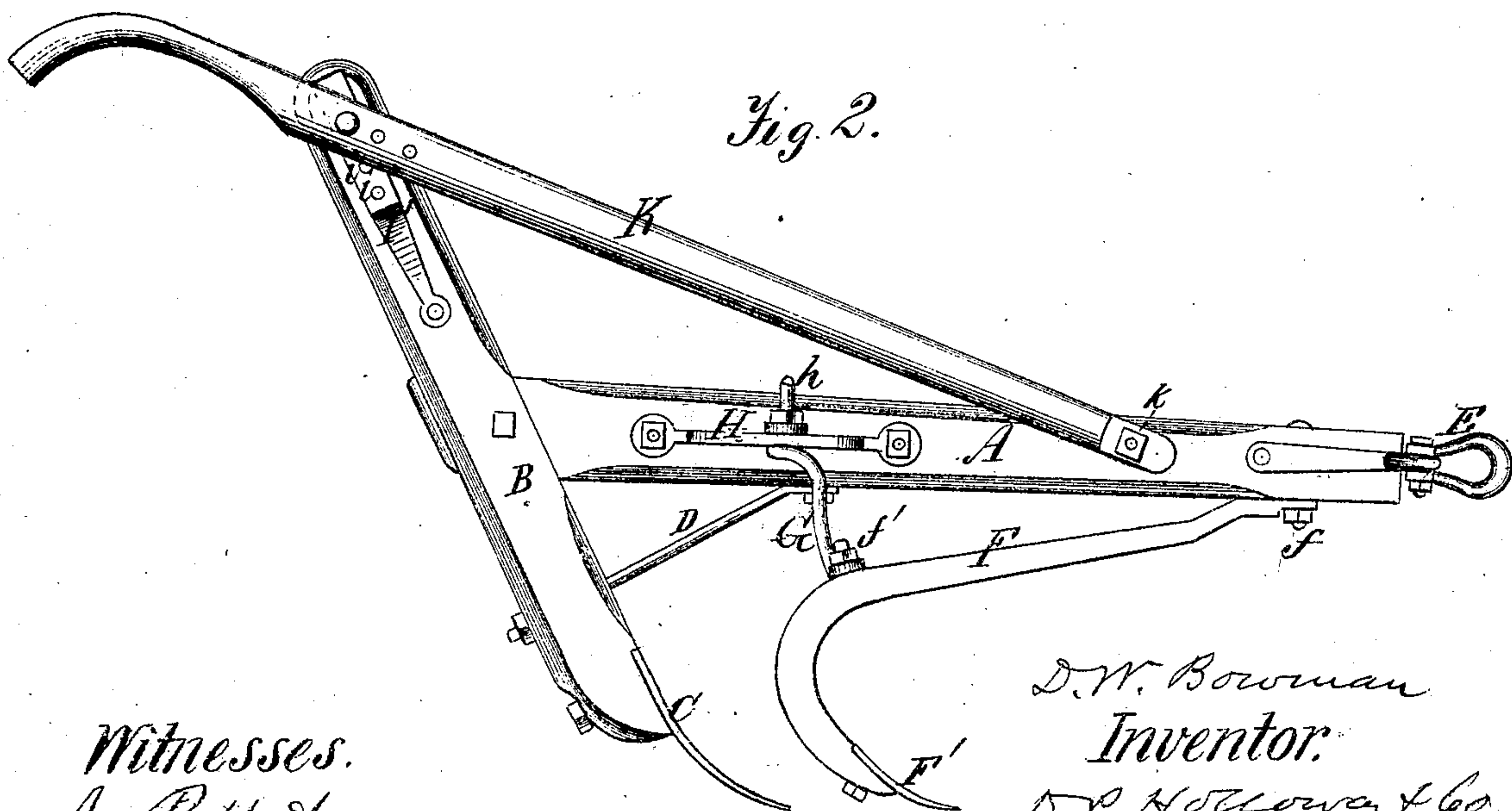
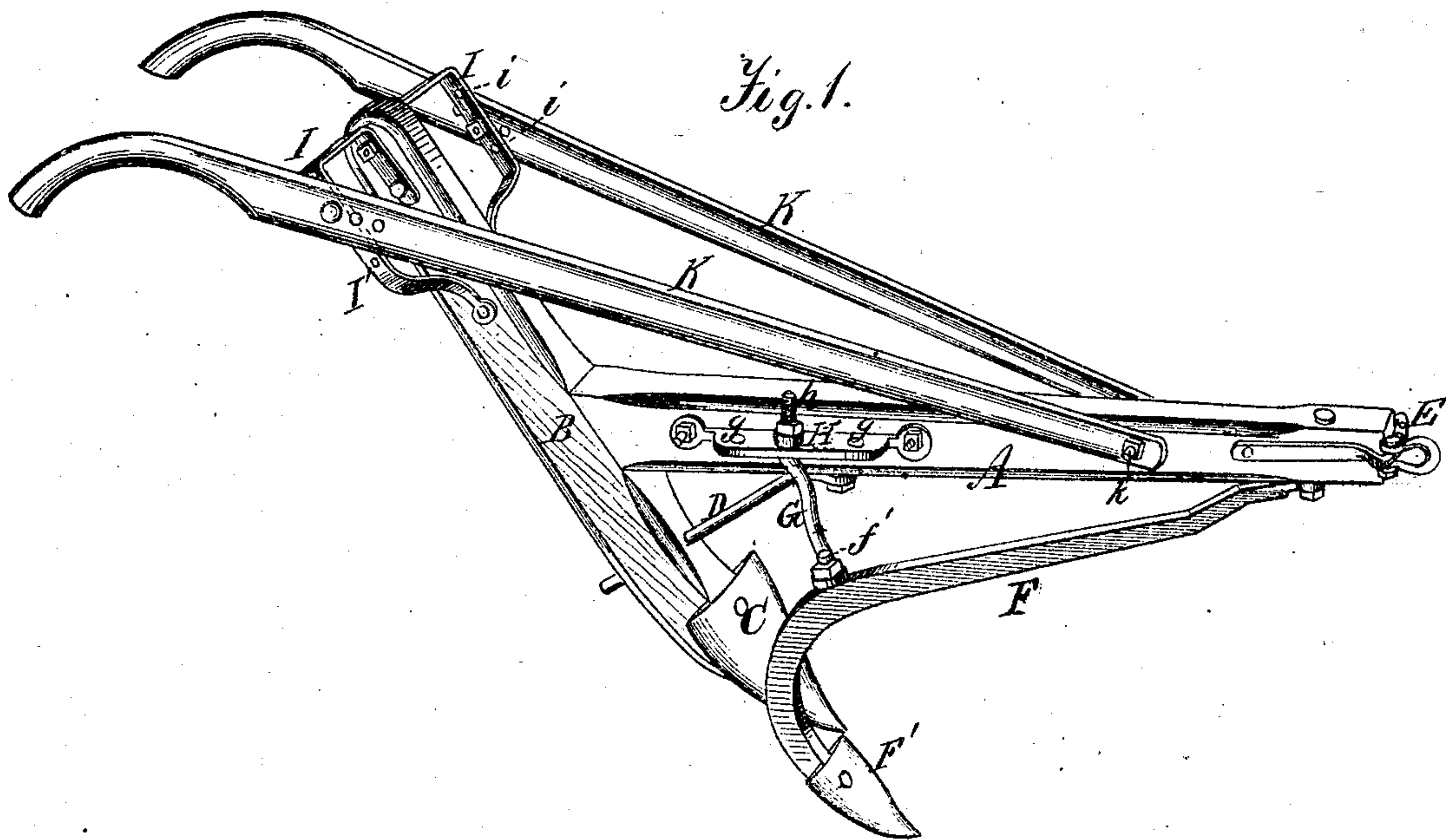


D. W. BOWMAN.

Improvement in Cultivators.

No. 121,484.

Patented Dec. 5, 1871.



Witnesses.
A. Ruppert.
J. Edw. J. Cils

D. W. Bowman
Inventor.
D. P. Holloway & Co
Atty

UNITED STATES PATENT OFFICE.

DANIEL W. BOWMAN, OF TIPPECANOE CITY, OHIO.

IMPROVEMENT IN CULTIVATORS.

Specification forming part of Letters Patent No. 121,484, dated December 5, 1871.

To all whom it may concern:

Be it known that I, DANIEL W. BOWMAN, of Tippecanoe City, in the county of Miami and State of Ohio, have invented certain Improvements in Shovel-Plows, of which the following is a specification:

This invention relates to that class of shovel-plows which consists of a beam carrying at the rear end a single shovel, and to which a second shovel is attached in such a manner that it may be adjusted to diverge more or less from the shovel on the main beam. The improvement consists in novel means for connecting the adjustable shovel to the main beam of the plow.

Figure 1 represents the improved shovel-plow in perspective. Fig. 2 is a side elevation of the same.

Corresponding letters are used in both figures in the designation of identical parts.

A refers to the main beam of the plow, which carries at its rear end the standard B, to the lower end of which the shovel C is secured in any approved manner. The connection between the beam and standard is strengthened by the tie-rod D in the usual way, and the beam is also provided with a clevis, E, at its forward end. F refers to a secondary iron beam, pivoted upon a bolt, *f*, to the main beam A, and curved downward near its rear end to form the standard for the shovel F', the length of this beam being such that its shovel shall stand some distance in advance of the shovel C. The rear end of the beam F is connected with the main beam A by means of a link, H, which is pivoted at *f'* to the former, and secured to a laterally-projecting plate or bracket, G, on the side of the latter. This plate is of considerable length, and is provided with a number of holes,

g, for the reception of the shank *h* of the link H. By shifting this shank of the link from one hole in the plate G to another the divergence of the shovels can be readily regulated to meet different exigencies. The shank may be secured by a nut, as shown, or in any other preferred manner; and it is apparent that instead of the series of holes an elongated slot in the plate G may be substituted. When not needed the adjustable shovel can easily be detached. The standard B is prolonged above the beam A, and to this part of it are secured the braces I I, which support the rear end of the handles K K, which are pivoted to the beam on a bolt, *k*. The braces are bent into the form best seen in Fig. 1, and secured at each end to the standard B by suitable bolts. The part I' of each has a number of holes, one above the other, at *i i*, to permit of the adjustment of the handles to suit different-sized persons, the handles being also perforated at different points, as seen.

What I claim as my invention, and desire to secure by Letters Patent, is—

In combination with a single shovel-plow, A B C, the secondary beam and shovel F F', when pivoted to the main beam at *f* and adjustably connected therewith at the rear end by means of the link H and perforated or slotted plate or bracket G, substantially in the manner set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

D. W. BOWMAN. [L. S.]

Witnesses:

E. T. SHIELDS,
ROBT. TEN EYCK.

(43)