

No. 694,441.

Patented Mar. 4, 1902.

J. F. STEWARD.

GRAIN DIVIDER FOR HARVESTING MACHINES.

(Application filed Aug. 19, 1901.)

(No Model.)

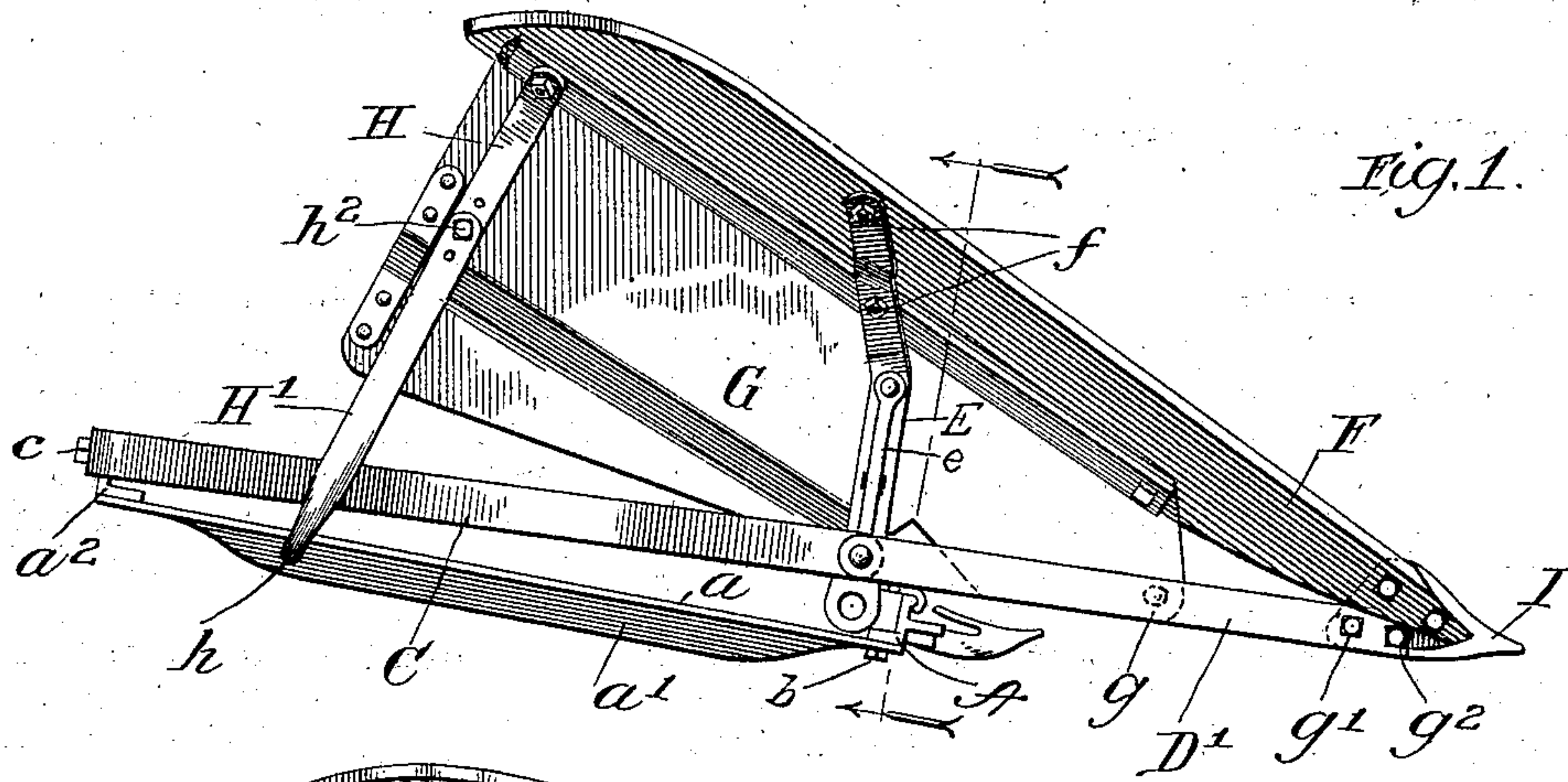


Fig. 1.

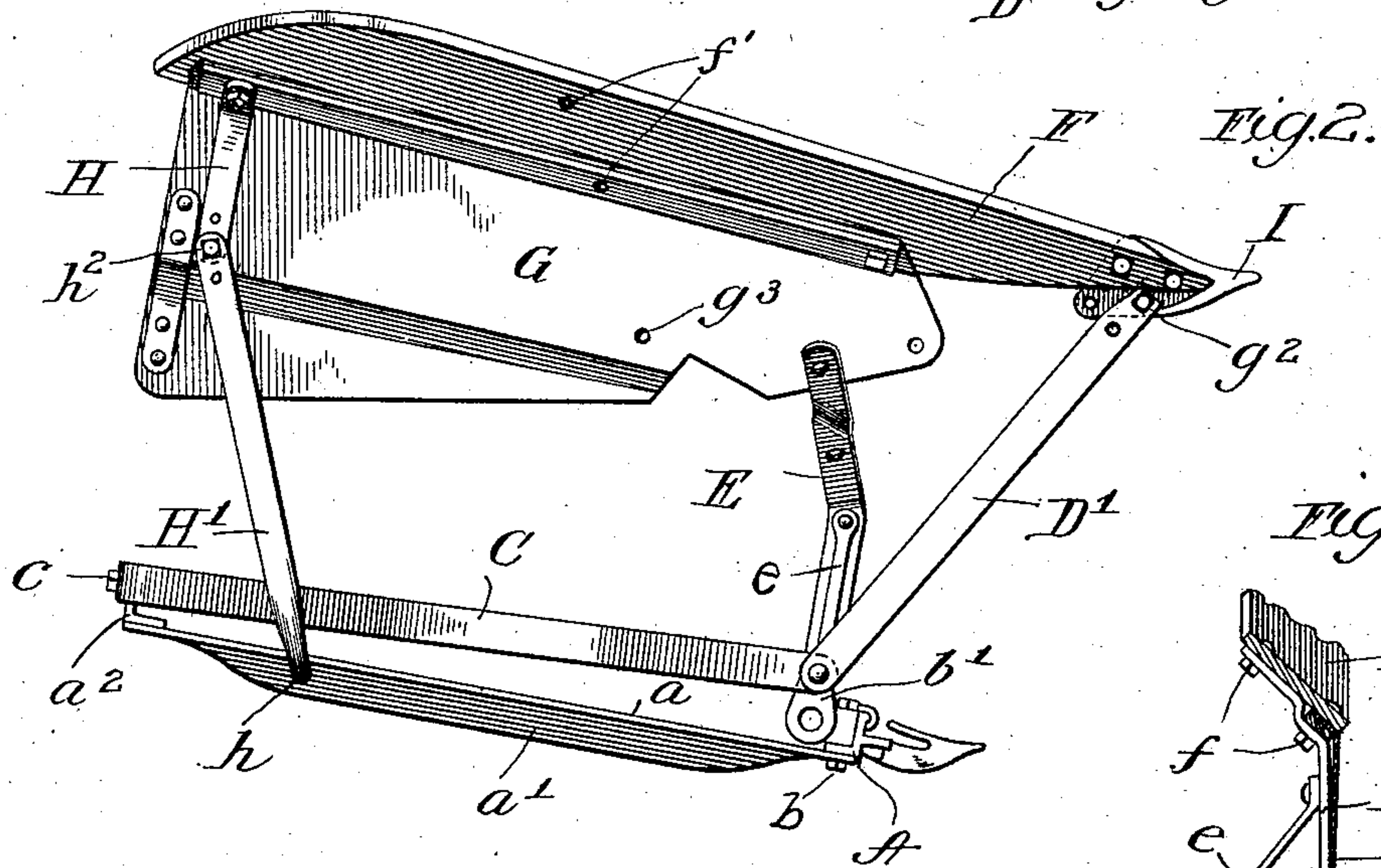


Fig. 2.

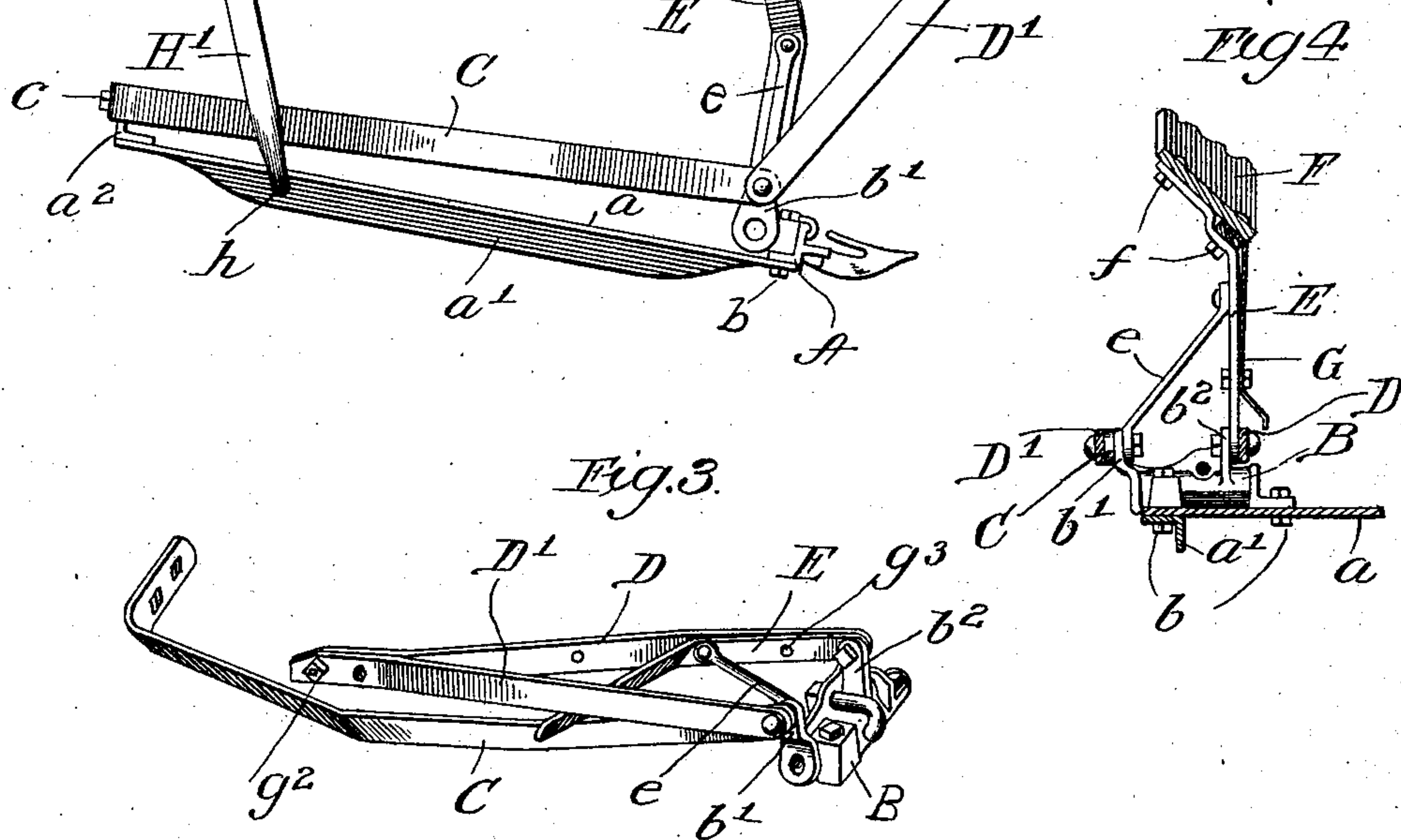


Fig. 3.

Fig. 4.

Witnesses;

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# UNITED STATES PATENT OFFICE.

JOHN F. STEWARD, OF CHICAGO, ILLINOIS.

## GRAIN-DIVIDER FOR HARVESTING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 694,441, dated March 4, 1902.

Application filed August 19, 1901. Serial No. 72,519. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN F. STEWARD, of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful  
5 Improvements in Grain-Dividers for Harvesting-Machines, of which the following is a full specification, reference being had to the accompanying drawings, in which—

Figure 1 shows the divider in its working  
10 position on a harvesting-machine. Fig. 2 shows the divider folded over backward, so as to narrow the machine, as while mounted upon the usual truck to be drawn endwise. The folding shown is for the purpose of passing  
15 through narrow places. Fig. 3 is a perspective view of the framework folded to position for shipment. Fig. 4 is a detail of the forward standard for supporting the divider-board.

20 The objects of the invention are to produce a divider that can be reduced in length for convenience in shipping, storing, and traveling, as stated. This divider is of the general form; but the construction whereby  
25 it may be folded forms the subject-matter of this application.

In the drawings, A is the finger-bar and cutting apparatus on a harvesting-machine.

$a$  is the platform.

30  $a'$  is the usual strengthening-bar, extending from the cutting apparatus to the rear platform sill  $a^2$ . Upon the finger-bar is secured the casting B by means of a bolt or bolts  $b$ . To the lug thereof  $b'$  is secured bar  
35 C. This bar at its rear end is secured by the bolt  $c$  to the rear sill  $a^2$ . The casting B is also provided with the lug  $b^2$ . To the lugs  $b'$  and  $b^2$  is pivoted the extension of the divider-frame, consisting of the bars D and D'. Upon  
40 the lug  $b^2$  is also pivoted the supporting-post E, bent at the proper angle to take the divider-board F. The divider-board F is secured to said post by means of the bolts  $f$ , passing through the holes  $f'$ , as shown in Fig. 1. To  
45 the board is also secured the shield G, in case the use of such shield is desired.

$e$  is a brace extending from the post E to the lug  $b'$ . Secured to the board F, and, if desired, to the shield G, is the flat bar H.  
50 Pivottally secured to the bar  $a'$  at  $h$  is a flat bar H'. The bars H and H' are connected by the bolt  $h^2$ . For convenience of adjusting

the height of the divider two or more holes may be placed in these bars, so that by said adjustment the point of the divider may be  
55 raised or lowered to a limited extent. The board F is secured to the divider-point I, which is a casting of suitable shape, and this point is connected to the bars D and D' by one or more bolts  $g'$  and  $g^2$ . 60

The divider may be shipped in the package form shown in Fig. 3. In setting up a machine bolts are passed through holes in casting B and the holes in the finger-bar, and the rear end of the bar C is secured to the back  
65 sill by the usual bolt  $c$ . The bars D and D' are then unfolded and the post E raised to its erect position. The board F may then be bolted to place.

When it is desired to fold the divider, it is  
70 only necessary to remove the bolts  $f$  and the bolt  $g'$ , when the remaining bolt  $g^2$  and the connection of the bar, which consists of H and H' at the point  $h$ , become pivots. This done, the whole structure can be elevated and carried  
75 rearwardly, as shown in Fig. 2. In case that a bolt is placed through the hole  $g^3$  into the standard E it should also be removed.

This invention mainly consists in constructing a divider-frame so that when secured to  
80 the platform of the machine one may by unlocking certain parts leave the remaining securements to serve as pivots, whereby the divider may be folded, as described. Other valuable features will be discernible to those  
85 versed in the art.

The bolts  $f$ ,  $f'$ ,  $g$ , and  $g'$  may be considered as the means whereby the parts that form the quadrilateral are locked to position. I have  
90 devised simpler means of locking the parts together, which will form the subject-matter of another application. I make the forward-extending parts D and D' brace each other. If, however, this is not particularly sought, a single bar may be used, if strong. The  
95 shield G and the bar H may be considered for present purposes as merely a part of the board or bar F.

In the claims the bars D and D' will be considered as one piece, for there is but a single  
100 function. One may be considered as a brace to sustain the other.

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



1. A divider-frame consisting of bars pivotally jointed together so as to form a quadrilateral and having means for locking the said frame rigidly in place and holding all parts in working position substantially as described. 5
2. In combination with a harvester - platform the bar H', the pivoted extension projecting forward of the cutting apparatus of the said harvester, the post E and the board F, the said parts pivoted together, whereby the said divider may be given its working position or folded rearwardly, substantially as described. 10
3. In a grain-divider, in combination with a harvester-platform adapted to form a support therefor, a post, formed by the bar H', a post E forward therefrom, a board or bar F, the forward extension D, D', said bar or board secured to the said post E and pivotally secured at its forward end to the said forwardly-extending bars D, D', and also pivotally secured to the bar H' and means for locking said parts to position substantially as described. 15 20 25
4. In a grain-divider in combination with a harvester-platform, having bar C secured thereto, the forward extension consisting of the bars D, D', a post E, connected pivotally to the bar C at a point coincident with the place of securement of the said bar C, a bar H' and a bar or board F connected to the point of said bars D, D' and extending to the upper end of the bar H', and means for holding said parts in position for labor substantially as described. 30 35
5. In a harvester a grain-divider consisting essentially of the forward extension pivoted to the grain-receiving platform, the divider-board F, its forward end pivotally secured to the forward end of said forward extension, the post E connecting said board to the rear end of the forward extension, and means for securing said board to the top of said post, all combined substantially as described. 40

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Witnesses:

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