

(No Model.)

2 Sheets—Sheet 1.

D. A. WILLIAMS.

DUMPING WAGON.

No. 383,930.

Patented June 5, 1888.

FIG: 1

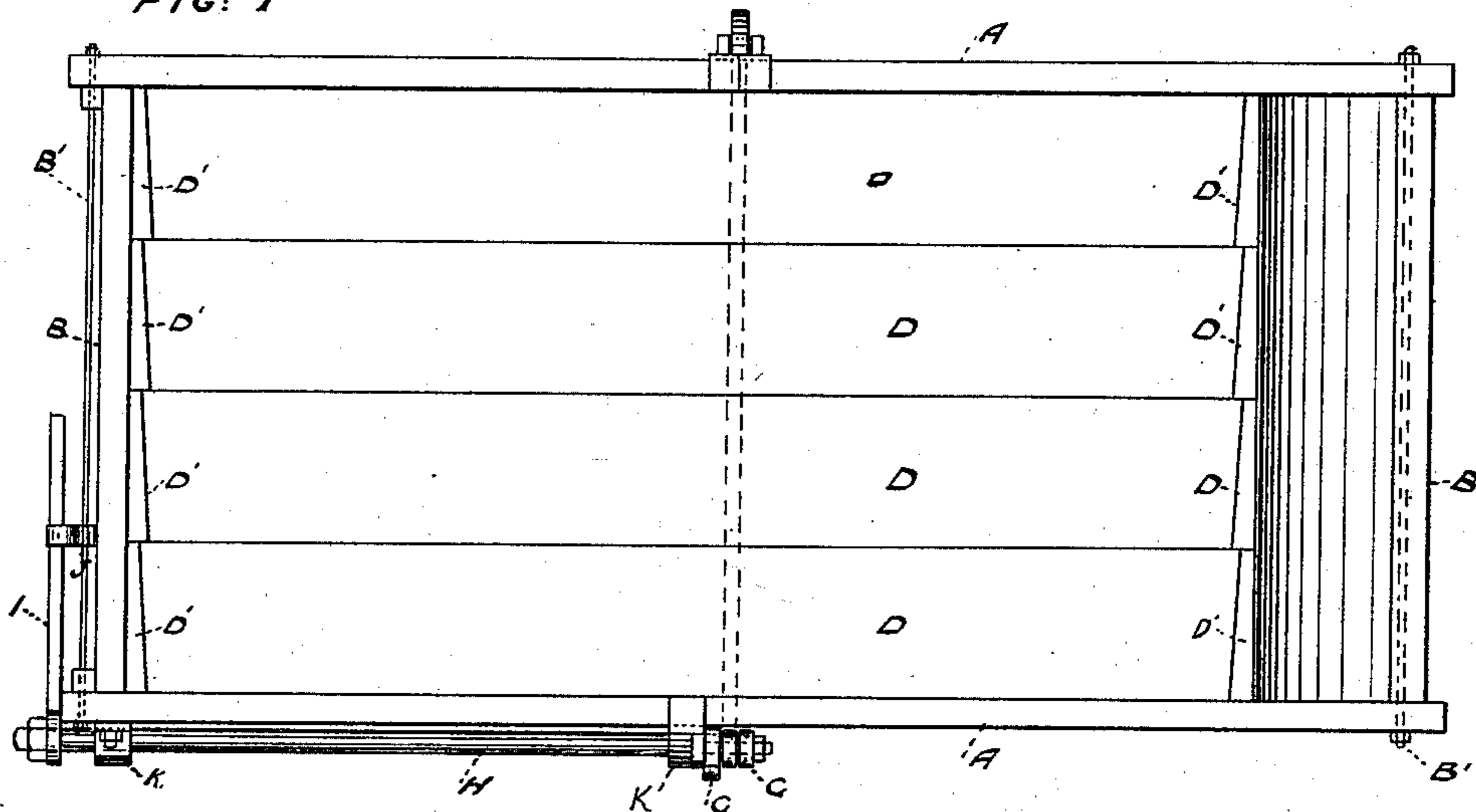


FIG: 2

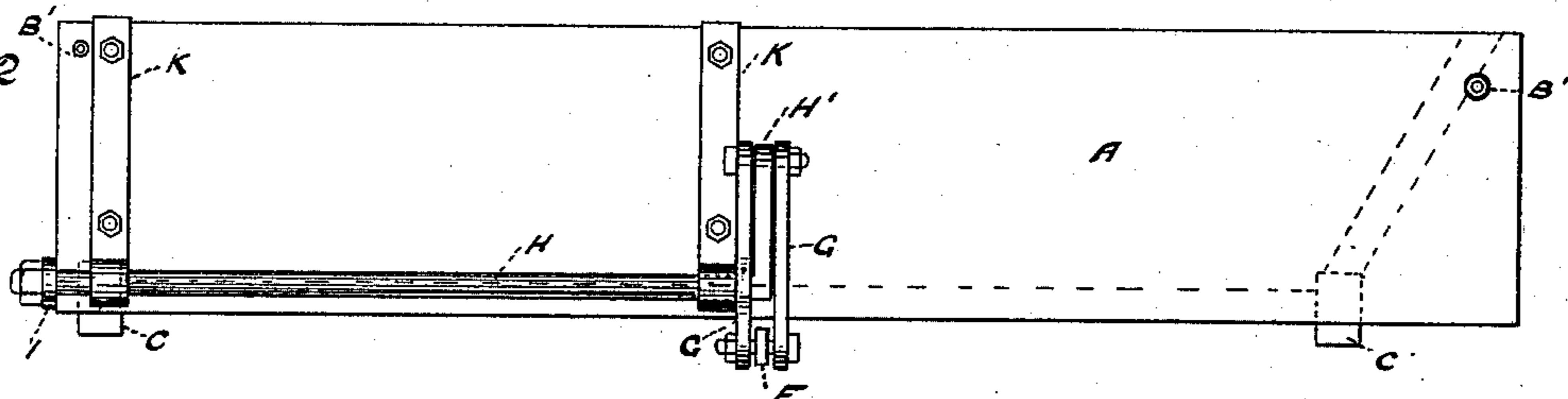


FIG: 3

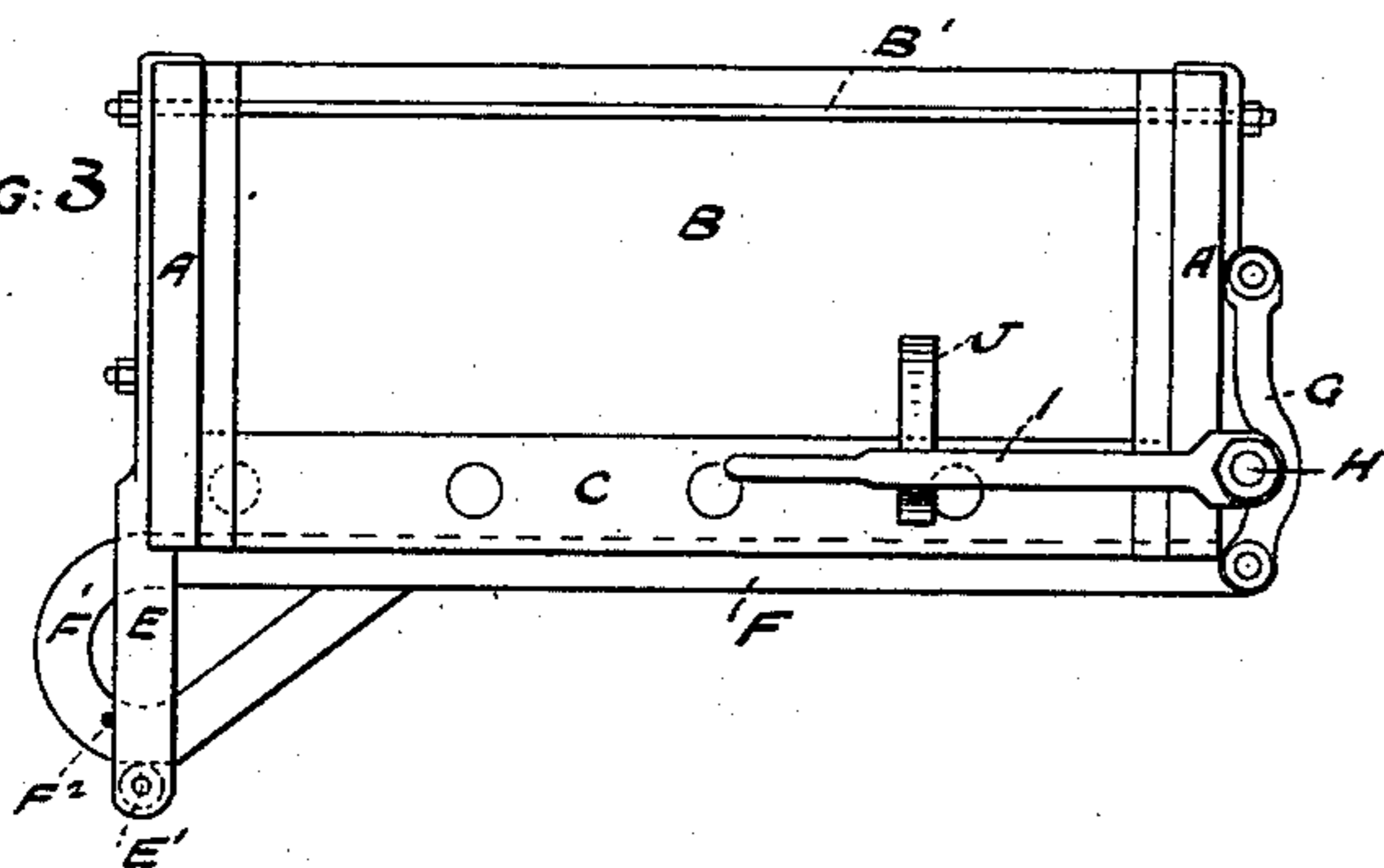
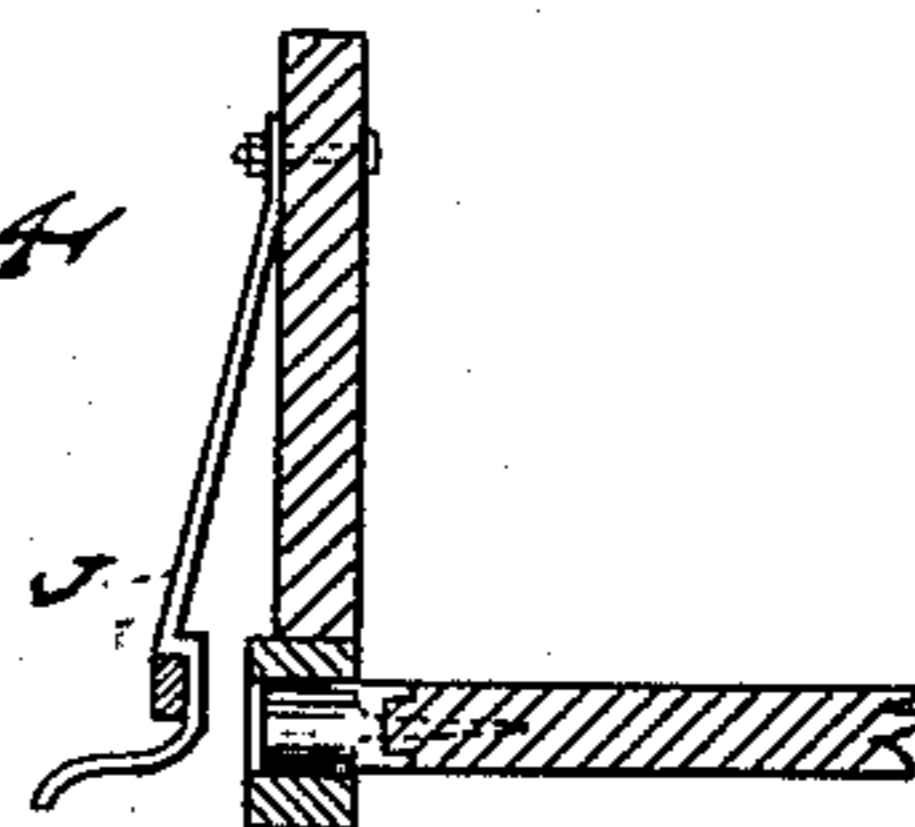


FIG: 4



WITNESSES:

John J. Huddart  
J. H. Barrett

INVENTOR

David A. Williams  
BY O'Brien & Co.,  
his ATTORNEYS.

(No Model.)

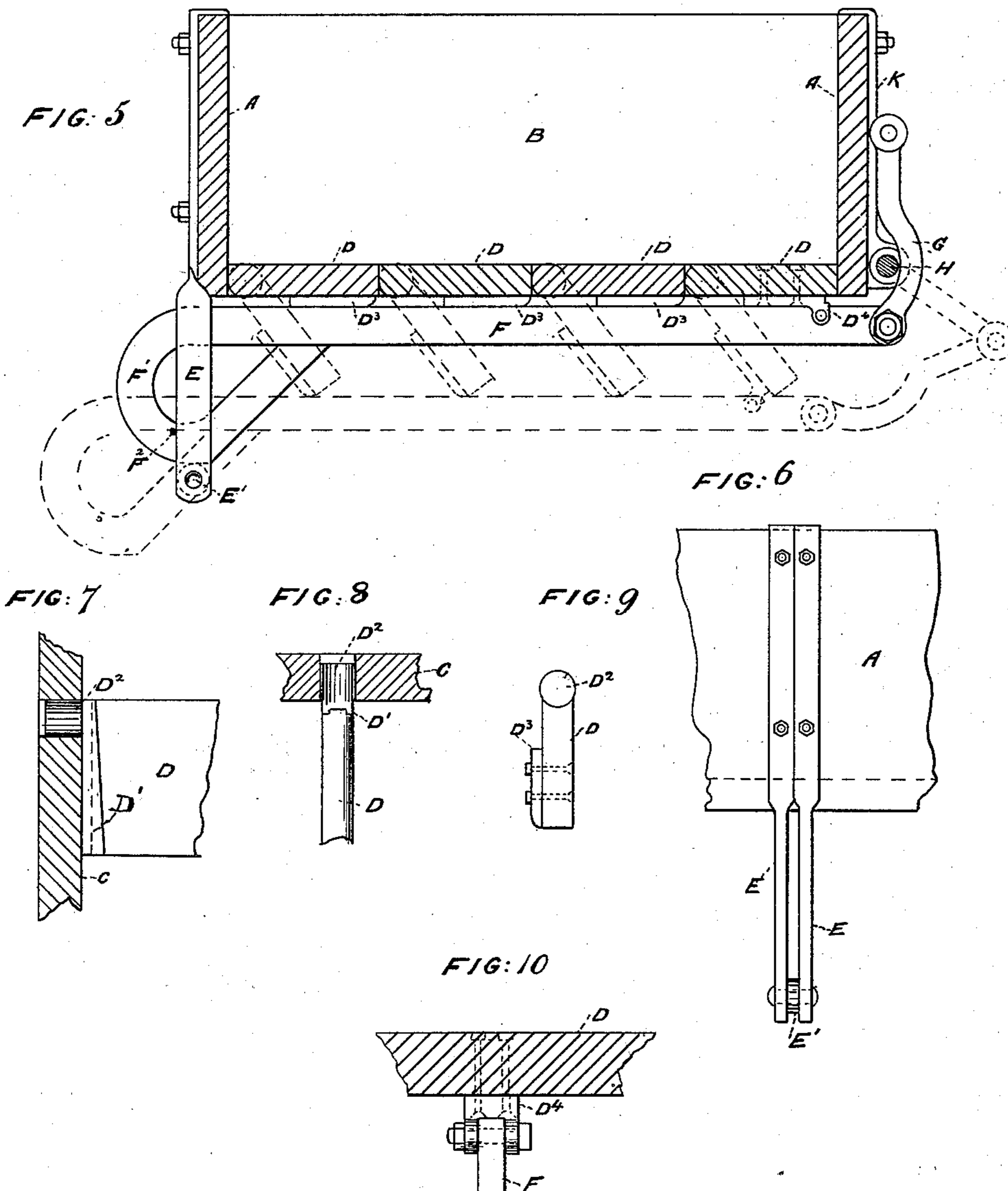
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# UNITED STATES PATENT OFFICE.

DAVID A. WILLIAMS, OF DENVER, COLORADO.

## DUMPING-WAGON.

SPECIFICATION forming part of Letters Patent No. 383,930, dated June 5, 1888.

Application filed September 26, 1887. Serial No. 250,693. (No model.)

*To all whom it may concern:*

Be it known that I, DAVID A. WILLIAMS, a citizen of the United States, residing at Denver, in the county of Arapahoe and State of Colorado, have invented certain new and useful Improvements in Dumping-Wagons, of which the following is a specification, reference being had therein to the accompanying drawings, in which similar letters refer to corresponding parts.

My invention relates to dumping-wagons; and the object of my improvements is to provide a self-dumping wagon-box for conveying ore, lime, gravel, dirt, or any other material that can be dumped through the bottom of the same, and also a box constructed so that the boards forming the bottom will not split, and may be easily and quickly removed and replaced with new ones when worn out or broken.

In the drawings, Figure 1 is a top view of my dumping-box; Fig. 2, a side elevation, and Fig. 3 an end elevation, of the same. Fig. 4 is a sectional view of one corner of my dumping-box, showing the spring for holding the lever. Fig. 5 is a sectional end elevation of the box, showing the supporting-bar raised and holding the bottom boards in a horizontal position, and also showing by dotted lines the bar lowered and the boards dropped on their edges. Fig. 6 is a view of the supporting-straps, showing the roller attached to same. Fig. 7 is a sectional view of one end piece, showing a bottom board when in a horizontal position and the cast-iron end piece provided with the journal, the board shown broken off. Fig. 8 is a sectional view of the same, showing one edge of bottom board, the board being broken off, and also showing the cast-iron end piece and manner of inserting the end of the board in the same. Fig. 9 is an end view of a bottom board, showing plate attached underneath and near the center of the same; and Fig. 10 is a sectional view of the bottom board, to which is attached the supporting-bar, and the manner of attaching the same.

A are the sides of the wagon-box.

B are the end-gates, which may be inserted or removed at pleasure by loosening and tightening rods B', as in other wagon-boxes.

C are the end pieces, in which are journaled

the cast-iron end pieces, D', of bottom boards, D, said cast-iron end pieces being provided with journals D<sup>2</sup>.

E are the supporting-straps, provided with roller E', attached between the lower ends of the same, for supporting the iron supporting-bar F, and on which the same slides. Iron supporting-bar F is placed across, underneath, and near the center from end to end of the bottom boards, D, for supporting, raising, and lowering the same. Supporting-bar F is provided with a loop, F', at one end, said loop being provided with a flattened portion of its lower edge, which rests on roller E' when the supporting-bar is raised to the position shown in Figs. 3 and 5. Said bar is also provided with pin F<sup>2</sup>, to prevent the same from sliding too far through the straps E.

To supporting-bar F is attached one of the bottom boards, D, by means of attachment D<sup>4</sup>, so that when said bar is lowered the flattened portion of loop F is pushed off the roller E', and slides back on the straight incline of said loop to the position shown by dotted lines in Fig. 5. Bar F is raised or lowered to drop as desired by means of hand-lever I, which is attached to front end of rod H. Said rod H is provided with crank H' at its rear extremity, to which is attached the clevis or pieces G, which are also attached to bar F. Rod H is journaled in straps K, which are attached to the sides of the box, as shown in Fig. 2.

J is a spring-latch made to retain hand-lever I when it is desired to hold the boards D in a horizontal position, and so made that the lever may be easily and quickly detached therefrom when it is desired to dump the load by allowing the bottom boards, D, to turn on their edges, as also shown by dotted lines in Fig. 5.

D<sup>3</sup> are plates placed on the under side of and between boards D and bar F.

I am aware that dumping-wagons have heretofore been made with the bottom boards pivoted in the longitudinal line of one of their edges, so as to be self-dumpers, and I therefore do not claim said boards, broadly; but

What I do claim as new, and desire to secure by Letters Patent, is—

1. In a dumping-wagon, the supporting-bar

F, provided with loop F' and pin F<sup>2</sup>, supporting-  
ing-straps E, provided with roller E', clevis  
G, attached to said bar F at one extremity and  
to crank H' of rod H at the other extremity, and  
5 rod H, to which is attached hand-lever I, pro-  
vided with spring J, as shown and described,  
and for the purpose set forth.

2. In a dumping-wagon, the combination,  
with bottom boards, D, provided with cast-iron  
10 end pieces, D', said end pieces being provided  
with journals D<sup>2</sup>, of the supporting-bar F, pro-  
vided with loop F' and pin F<sup>2</sup>, the same being  
supported at one extremity by straps E, pro-  
vided with roller E', and attached at the other  
15 extremity to hand-lever I by means of clevis  
G, and rod H, provided with crank H', said  
rod H being held in place by means of straps

K, said supporting-bar F also being attached  
to one of the boards D by means of attach-  
ing-piece D<sup>4</sup> and spring J, for retaining lever 20  
I, as described, and for the purpose set forth.

3. In a dumping-wagon, the bottom boards,  
D, provided with the cast-iron pieces D' and  
plate D<sup>3</sup>, in combination with supporting-bar 25  
F, provided with loop F' and pin F<sup>2</sup>, and sup-  
ported at one end by the straps E, provided  
with roller E', and supporting-bar F being  
provided with attachment D<sup>4</sup>, and raised and  
allowed to drop by any suitable means desired,  
for the purpose set forth and described.

DAVID A. WILLIAMS.

In presence of—

FRANK H. ROGERS,

ROBERT SPEARS.