

WITNESSES
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WHEELBARROW HOISTING BUCKET.

APPLICATION FILED APR. 24, 1907. RENEWED JULY 18, 1908.

913,241.

Patented Feb. 23, 1909.

2 SHEETS—SHEET 2.

Fig. 7

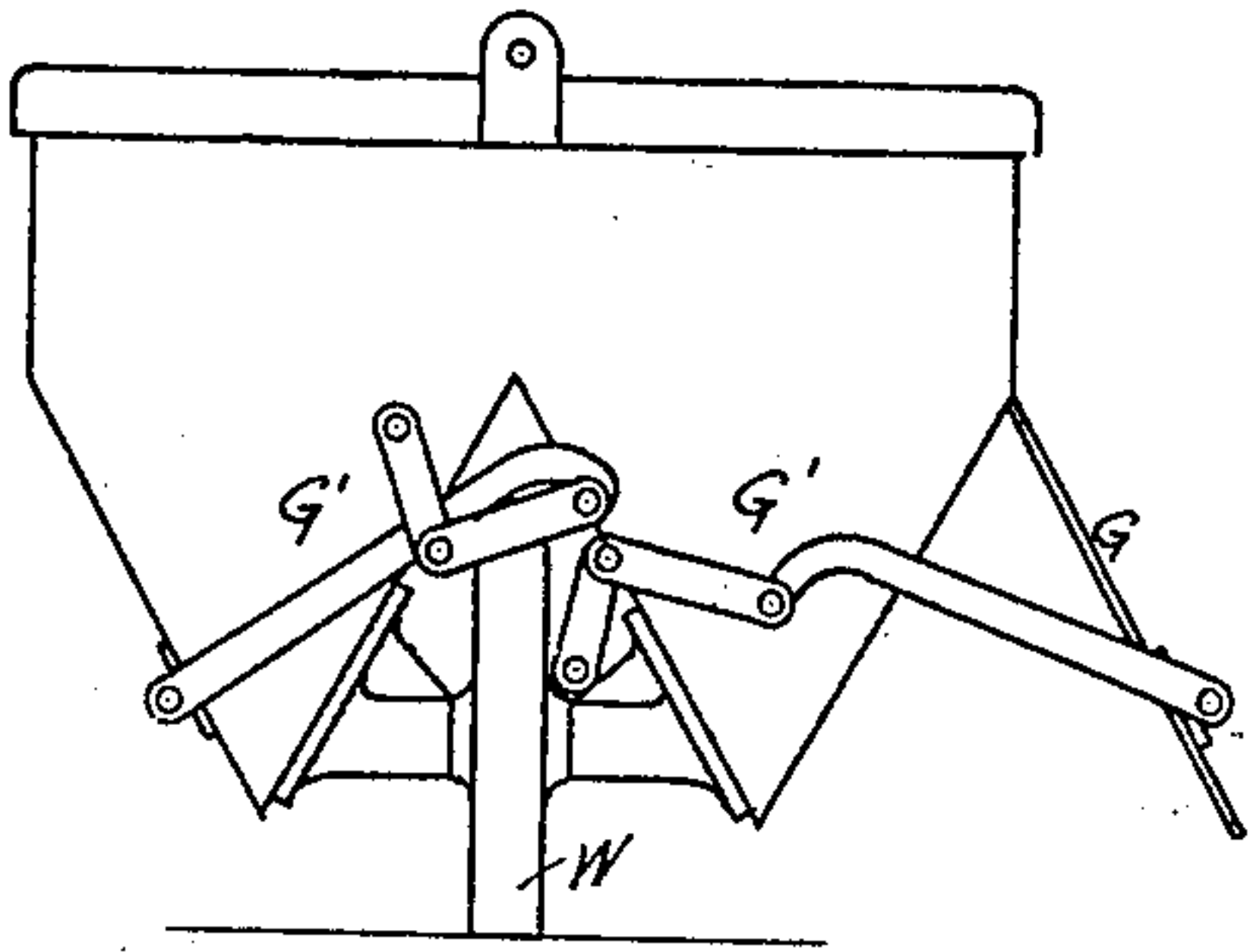


Fig. 6

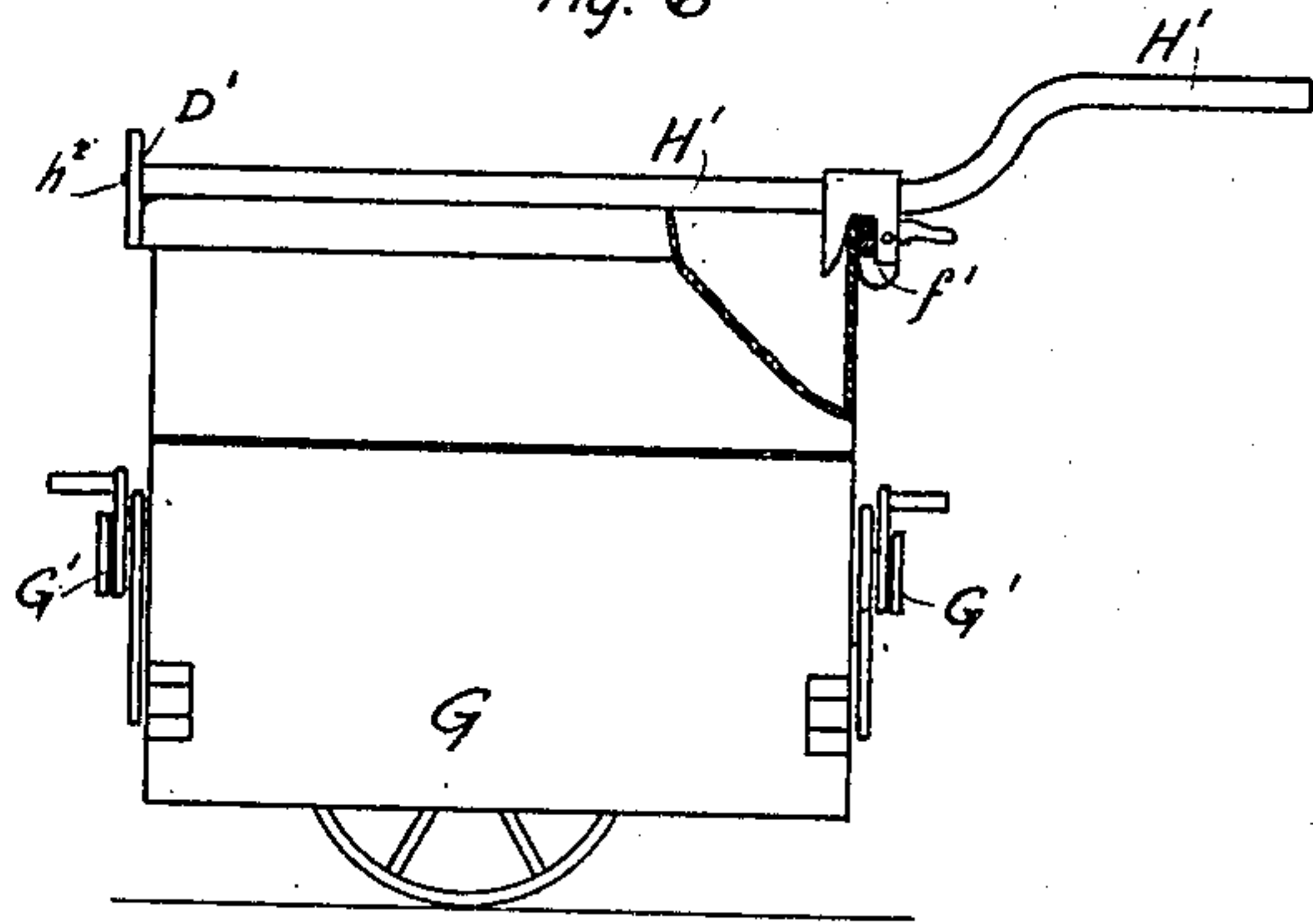


Fig. 9

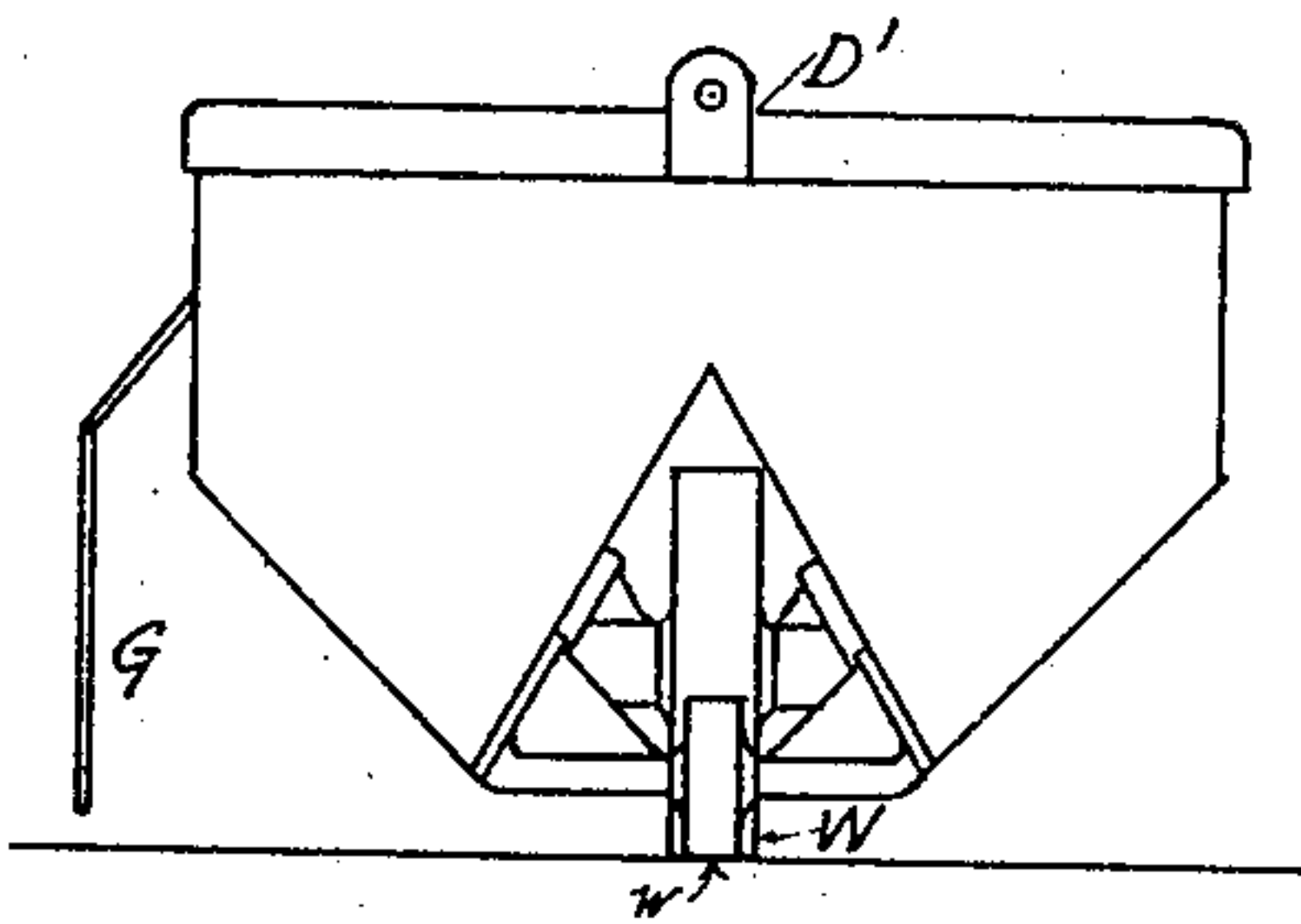


Fig. 8

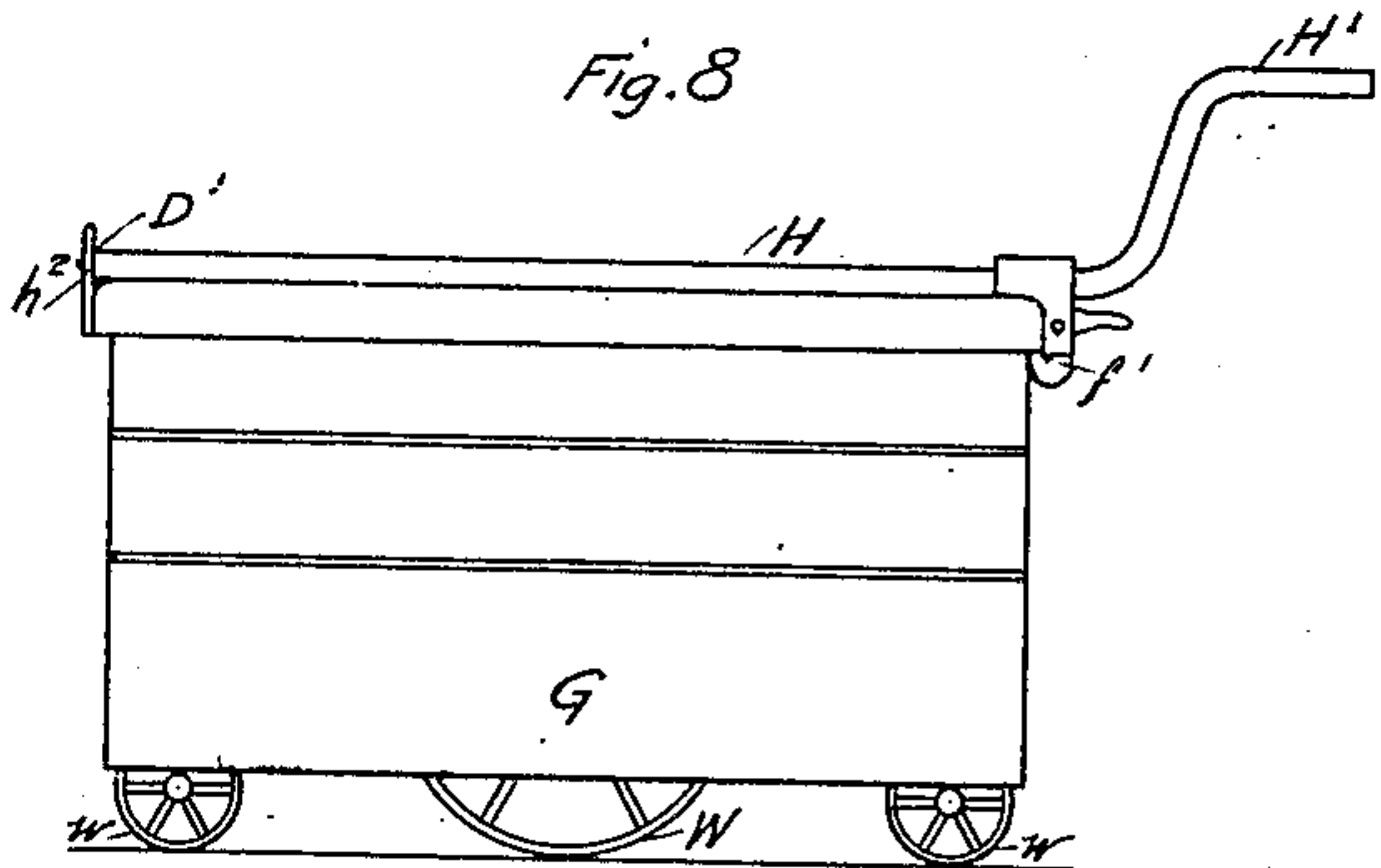


Fig. 12

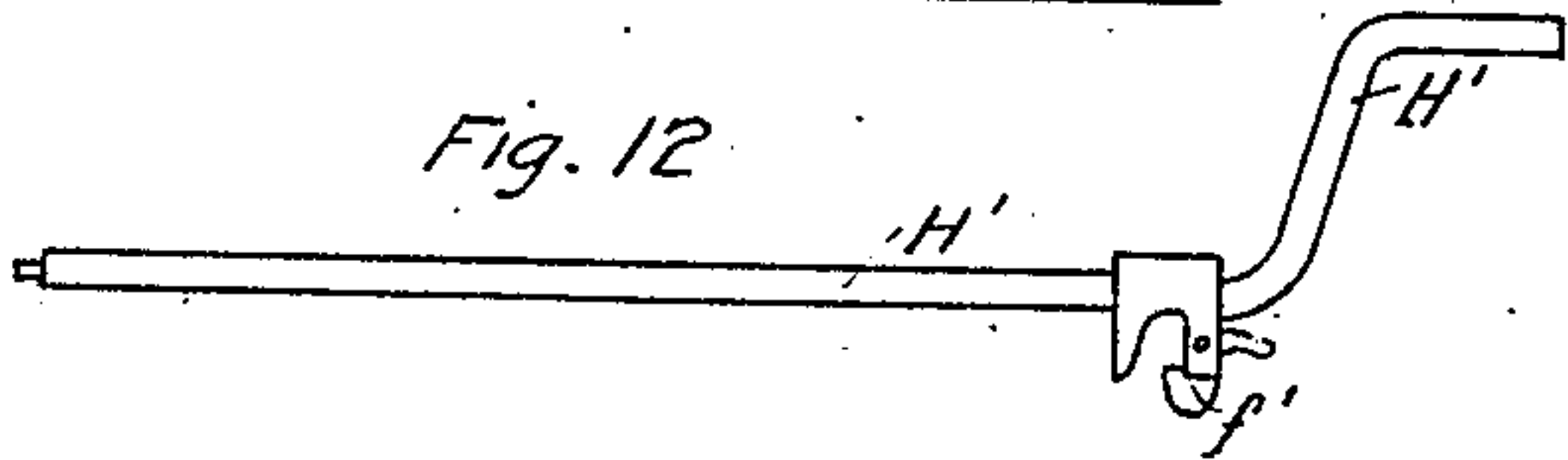


Fig. 11

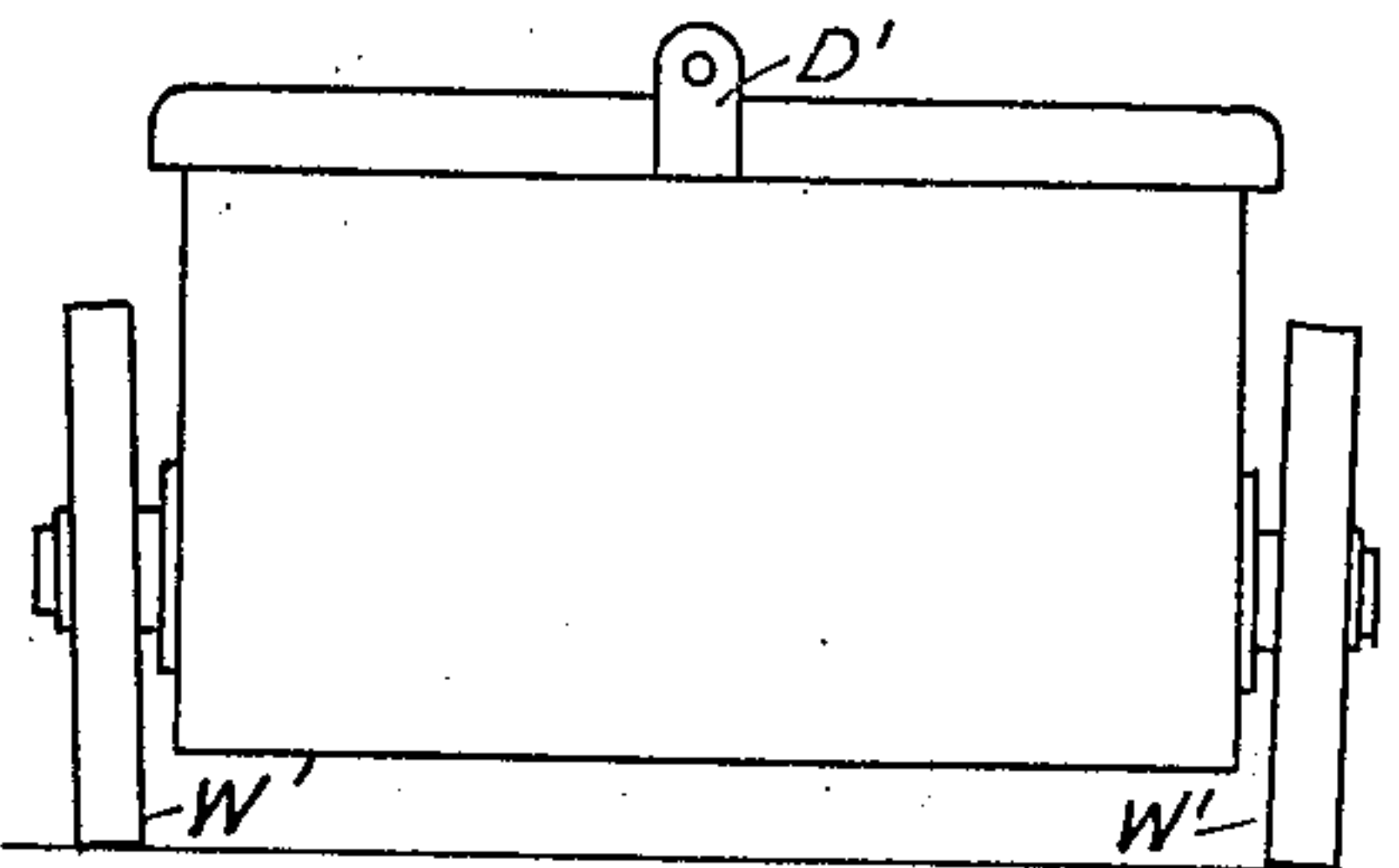
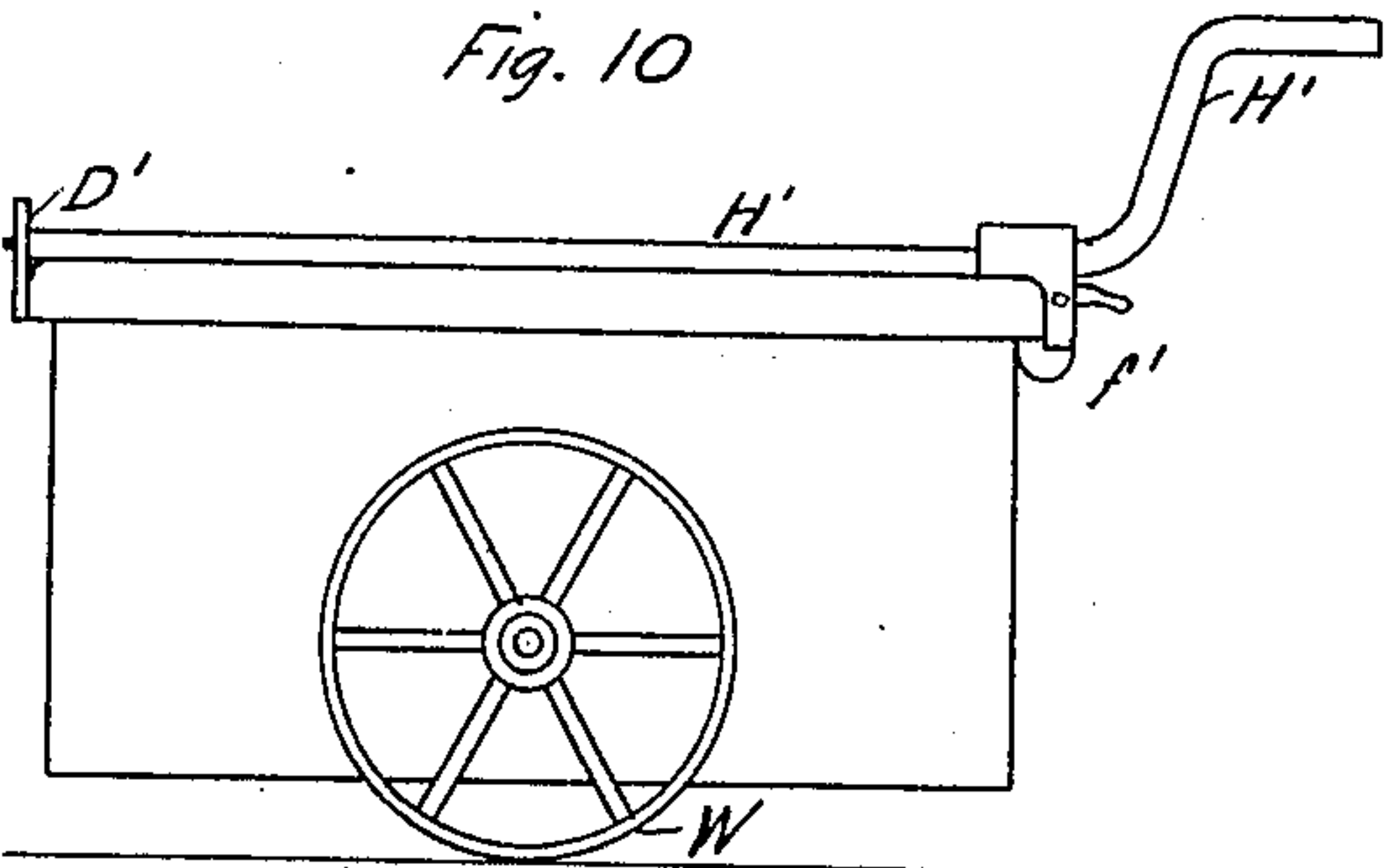


Fig. 10



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UNITED STATES PATENT OFFICE.

AUGUSTUS SMITH, OF NEW YORK, N. Y., ASSIGNOR TO BERGEN POINT IRON WORKS, OF NEW YORK, N. Y., A CORPORATION OF NEW JERSEY.

WHEELBARROW HOISTING-BUCKET.

No. 913,241.

Specification of Letters Patent.

Patented Feb. 23, 1909.

Application filed April 24, 1907, Serial No. 369,994. Renewed July 18, 1908. Serial No. 444,177.

To all whom it may concern:

Be it known that I, AUGUSTUS SMITH, a citizen of the United States of America, residing in the borough of Manhattan, in the city of New York, county and State of New York, have invented a certain new and Improved Wheelbarrow Hoisting - Bucket, of which the following is a specification.

The main object of my invention is to so construct a hoisting bucket or tub and provide it with attachable and detachable means that it can be readily, conveniently and quickly handled between a loading or unloading point and the hoisting mechanism. This object I attain by providing the bucket with a wheel or wheels of a size suitable for the wheeling of the bucket about, and providing a pair of handles and means whereby such handles can be readily attached to or detached from the bucket.

In the accompanying drawings Figure 1 is a plan view of a form of hoisting bucket, with a pair of attachable handles applied thereto; Fig. 2 is an elevation, with part of the bucket broken away; Fig. 3 is a view of a detail, drawn to a larger scale; Figs. 4 and 5 are views showing the bucket without the handles, but grasped by a hoisting mechanism; Fig. 6 is a side elevation and Fig. 7 is an end view of another form of dumping bucket provided with a supporting wheel and detachable handles; Fig. 8 is a side elevation, and Fig. 9 is an end view of a dumping bucket similar in construction to that shown in Figs. 6 and 7 but provided with additional wheels; Figs. 10 and 11 are similar views of another modification; Fig. 12 is a side view of an attachable handle detached.

In Figs. 1, 2 and 3, I have illustrated my present invention as applied to that special construction of hoisting and dumping bucket which forms the subject of my Patent 837,744, dated December 4, 1906, and in which the bucket A has a circular top B, a bottom C of angular outline and with sides flattened towards the bottom. I have shown the bucket as provided with a central stem E, which is made hollow and of more or less conical form and terminating at the top in an eyed piece or lug D, which may be adapted to receive the hook of a hoisting rope, when desired. Within the hollow central stem, I provide a trunnion or bearings for a wheel W of suitable size and projecting below the bottom of the bucket a sufficient distance to act

as a supporting wheel, like the wheel of a wheel barrow. In connection with the bucket thus constructed, I provide a pair of handles H, such that they can be readily attached to and as readily detached from the bucket. For this purpose the two individual handles are preferably united and they may be brought towards each other at their inner ends, where they are joined by a plate *h*, which engages with a notch *d* (Fig. 3) in the lug D at the top of the central stem of the bucket, while hooks *f* on the handles H may engage the flanged outer edge at the top of the bucket. The handles thus applied may be held latched in place by a swinging hasp *h*¹ on the plate *h* thrown over the lug D. When thus applied the handles H can be used by a workman to trundle the bucket on its wheel W between a loading or unloading point and the hoisting point with great facility. At the hoisting point, the handles can be quickly detached from the bucket and the hoisting means quickly connected to the eye D or in any other suitable way. For example as shown in the drawing, the bucket may be provided with external opposite trunnions *a* to receive the hooks of a hoisting and dumping yoke K, Figs. 4 and 5, while a hinged latch *k* hooks onto the flanged edge of the bucket.

In Figs. 6 and 7, I have shown a hoisting and dumping bucket of a different form, that is, of rectangular outline at the top and with hinged dumping doors G at opposite sides controlled by any well known system of levers such as indicated at G¹. The bottom of the bucket between these hinged doors G, G, is formed inclined in opposite directions towards the doors to facilitate discharge of the contents of the bucket through the doors when opened. In the central space thus formed I mount a supporting wheel W, which projects below the bottom of the bucket and on which the bucket may be wheeled about like a wheel barrow by means of the attachable pair of handles H¹. These handles H¹ are united to each other as before and may be attached to the bucket by fitting a pin *h*² on their forward end into an eye on a lug D¹ on one end of the bucket, while a hinged spring latch *f*¹ engages with the flanged upper edge of the bucket at the other end.

In Figs. 8 and 9, I have shown a construction of bucket substantially the same as that

in Figs. 6 and 7, except as to size and as to the addition of smaller wheels *w* at the forward and rear ends. For the sake of simplicity, I have omitted in these views the
5 levers controlling the hinged doors *G*.

In Figs. 10 and 11, I have shown a simple rectangular form of hoisting and dumping bucket mounted upon wheels *W*¹ at opposite
10 sides and provided with a detachable handle *H*¹, which may be of the wheel barrow type, similar to the pair of handles used for the buckets, Figs. 6 to 9. Such handle is shown detached in Fig. 12.

I am aware that plows and other appli-
15 ances have been provided with handles which are secured to the shares or frames by bolts and nuts and can be detached by unscrewing such bolts and nuts. This I do not claim. Where in my claims I speak of the
20 handles as "readily attachable and detachable." I mean a construction permitting of almost instant attachment or instant detach-

ment as by a simple hooking or unhooking action and the throwing of a latch.

I claim as my invention:

1. A hoisting and dumping bucket having
25 a supporting wheel of wheel barrow type in combination with a united pair of wheel barrow handles readily attachable and detachable.

2. A hoisting and dumping bucket having
30 a supporting wheel and a central stem in combination with wheel barrow handles readily attachable to and detachable from the said central stem, and the rim of the
35 bucket.

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

AUGUSTUS SMITH.

Witnesses:

WALTER ABBE,
HUBERT HOWSON.