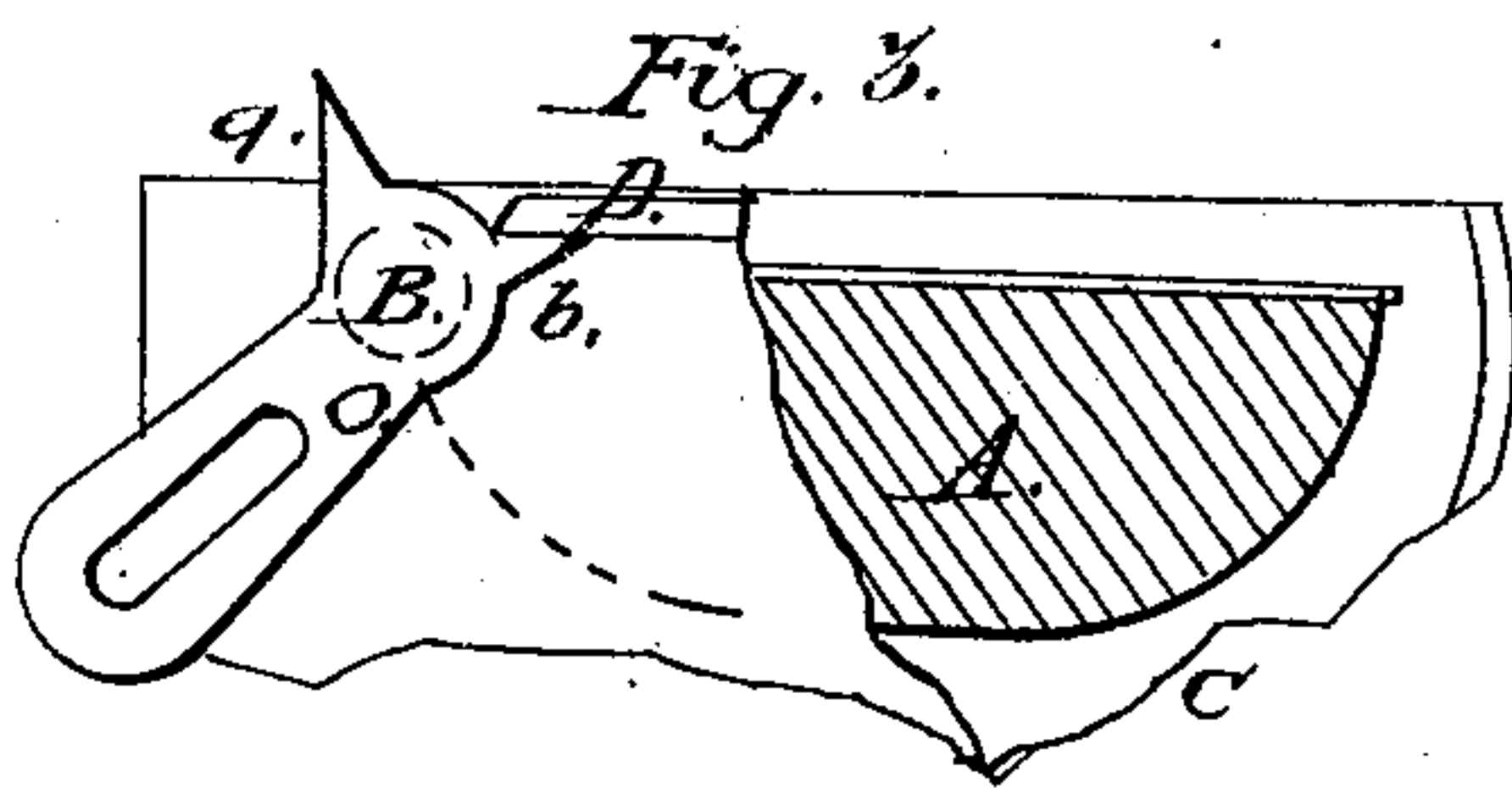
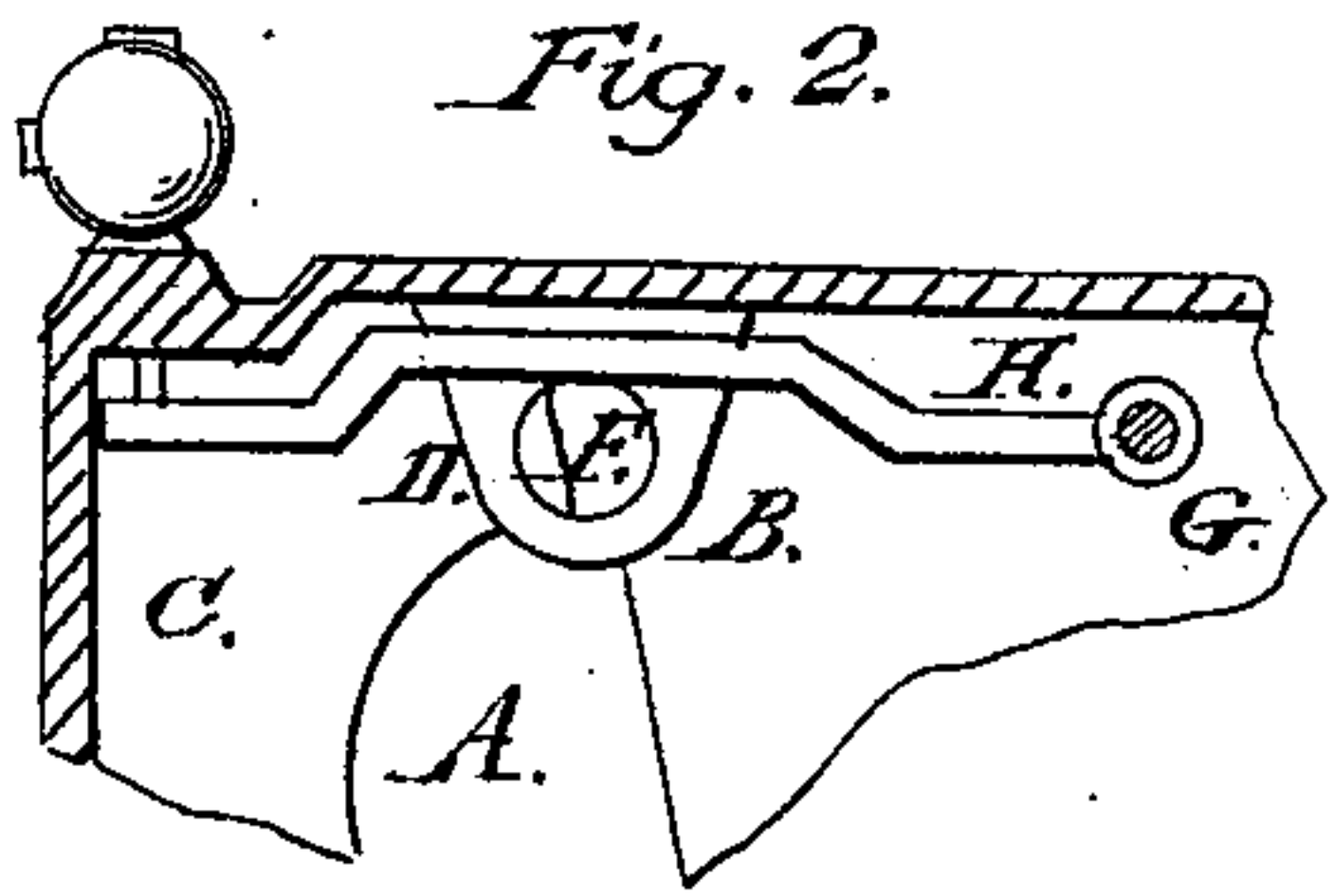
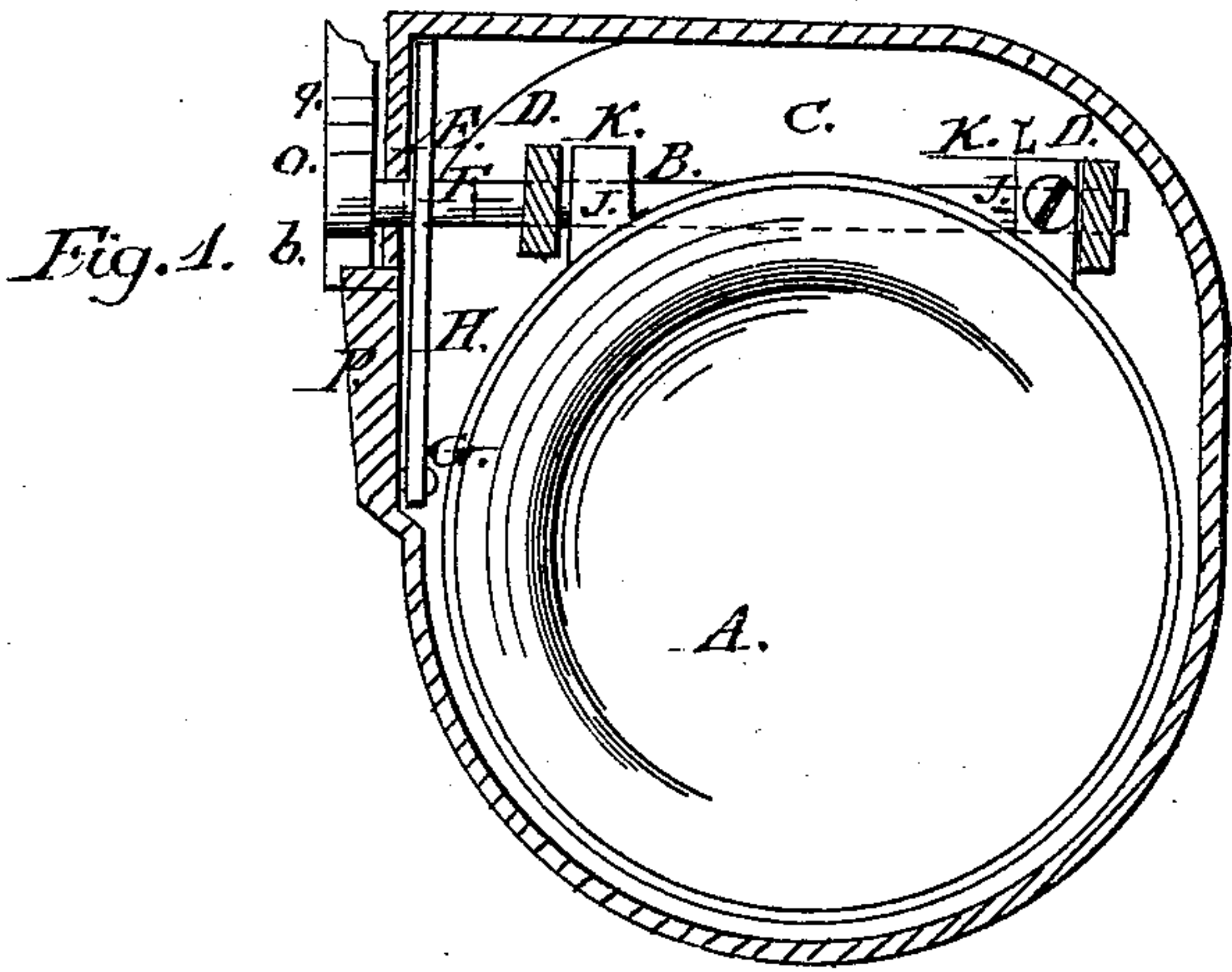


J. Hayden, Jr.

Water Closet.

No. 29479.

Patented Apr. 27, 1869.



Witnesses:
James L. Johnson
L. M. Wells

Inventor:
Joel Sayden Sr.
Per. Gardner & Hyde
attys.

United States Patent Office.

JOEL HAYDEN, JR., OF HAYDENVILLE, MASSACHUSETTS.

Letters Patent No. 89,479, dated April 27, 1869.

IMPROVEMENT IN WATER-CLOSETS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, JOEL HAYDEN, Jr., of Haydenville, Hampshire county, State of Massachusetts, have invented certain new and useful Improvements in Water-Closets; and I do hereby declare that the following is a full and clear description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

In the drawings—

Figure 1 is a partial sectional view of a water-closet receiver, showing my improvements, and

Figures 2 and 3 are detail views of these improvements.

These improvements relate to the arrangement of the pan in the receiver of a water-closet, and also, to the hinge of the same.

In fig. 1 is shown the method of hanging the pan A in place, the hinge coming immediately under the rear edge of the receiving-hole of the receiver, as in ordinary cases, where dumping-pans are used.

The method of constructing this hinge I consider novel and improved, which I will now describe.

The hinge-rod B extends entirely across the receiver C, having its bearings at each side of the pan A, said bearings consisting of ears D and D', projecting downwards from the top plate of the receiver, and between these bearings the sockets J and J' (formed through the projections K and K', upon the rear edge of the pan) are placed, when the hinge-rod B is put through them.

The sockets J and J' are made square, as is also the hinge-rod, between its journal-bearings, and when the rod is put in place and clamped by the set-screw L, in one of the projections K, neither it, nor the pan can move laterally, as the projections K come closely against the sides of the ears D on either side; but when the rod is turned in its bearings, the pan turns with it.

The turning of the hinge-rod is effected by means of a lever, which, being hinged at one end to the side of the receiver, is operated by means of a lifting-rod, as in ordinary cases, such as are in common use, a slotted crank-arm, rigidly attached to the projecting end of the hinge-rod, connecting the lever with the hinge-rod.

This crank has ordinarily formed a stop, to prevent the pan from being banged against the inside of the receiver when dumped, and this was effected by means of a projection, a, on the crank-arm O, striking against a projection, P, on the side of the receiver, in time to

prevent the pan from reaching the inner side of the receiver.

In my improved plan, this crank-arm O has another projection, b, which, when the pan is raised, prevents it from striking against the underneath side of the top rim of the receiver, thus forming a double stop for the pan, preventing it from striking either side, and thus dispensing with pads, cushions, &c., inside of the receiver.

The lever H, hinged to the inner side of the receiver at G, passes over the rod B, between the bearing D and the entering-hole E, in the side of the receiver.

The rod B, at this point, is made flat, by cutting the top portion out, leaving a horizontal plane below the centre, upon which plane F the lever H rests when the pan is up.

When the pan is dumped, however, the lever is raised by the rear edge of the plane F, which is turned up when the rod B is partially revolved in the requisite direction, thus operating the valve when the pan is dumped.

By this means, I secure a neat and easily-adjusted hinge for the pan, and a double lock, to prevent the latter from being banged either way, accomplishing these results by the use of the simplest devices.

I do not wish, in second clause of claim, to claim the device shown by Frederick H. Bartholemew, and confine myself to improvement, as shown in said second clause.

Now, having described my invention,

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

1. The construction and arrangement of the hinge-rod B, running entirely across the receiver, and through the sockets J and J', in the projections K K', upon the pan, and prevented, by the bearings D D', upon each side of them, from having any lateral motion, while by loosening the screw in the socket, the rod B may be readily drawn out, the parts all being combined and arranged together, substantially as shown and described.

2. The construction of the crank-arm O with the stop b, when combined and arranged with the dumping-pan in the manner and for the purpose set forth.

3. The plane F, upon the hinge-rod B, constructed as described, and for the purpose set forth.

Witnesses:

EDWARD H. HYDE,
R. F. HYDE.

J. HAYDEN, JR.