

H. B. Willoughby,

*Mon Winger.*

*N<sup>o</sup> 79,795.*

*Patented July 7, 1868.*

*Fig 1.*

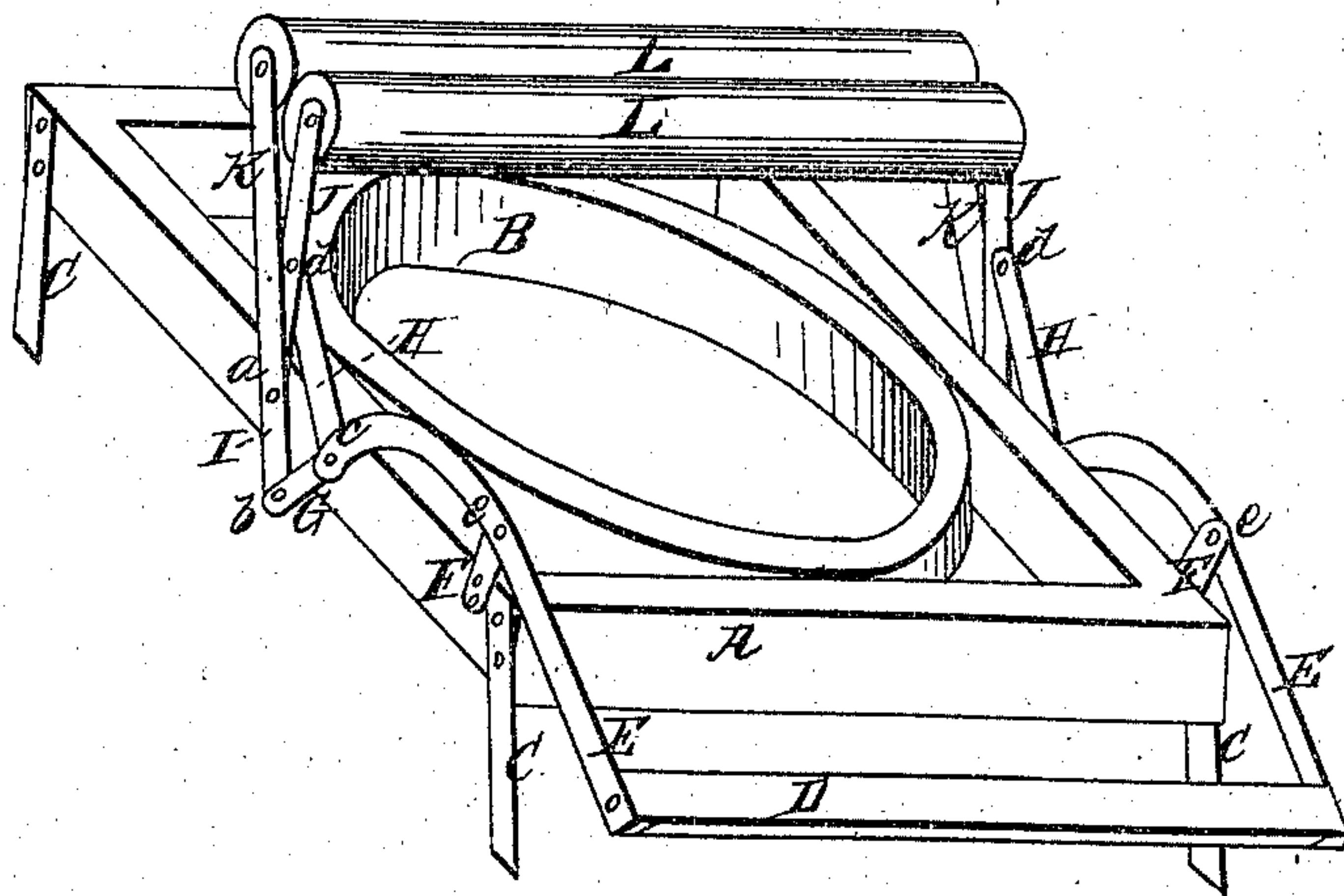
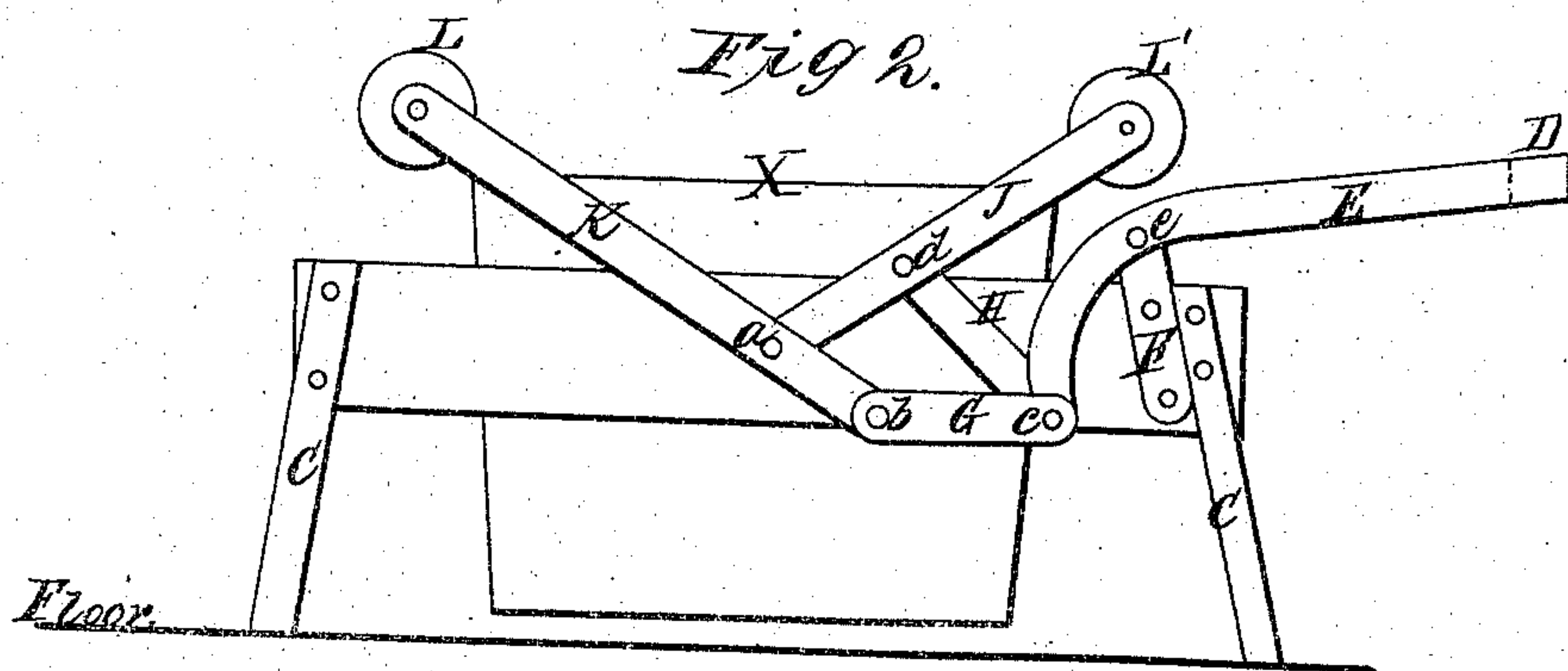


Fig 2.



Witnesses.  
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# United States Patent Office.

H. B. WILLOUGHBY, OF OTTAWA, ILLINOIS.

Letters Patent No. 79,795, dated July 7, 1868.

## IMPROVED MOP-WRINGER.

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, H. B. WILLOUGHBY, of Ottawa, in the county of La Salle, in the State of Illinois, have invented a useful Improvement in Mop-Wringers; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification, in which—

Figure 1 is a perspective representation of my invention.

Figure 2 a longitudinal elevation of the same.

The nature of this invention consists in the use of a substantial frame, which is made to support the wringing-devices; and through it is an opening corresponding in size with the wash-vessel used; and the rim of the opening is arranged to keep the vessel from touching the floor, and to hold it in a convenient position for catching the water wrung from the mop; and in the novel arrangement of a series of levers, by means of which the rollers of the wringer may be opened far enough to remove the vessel from between them, and yet be held together with all of the force necessary to speedily wring a mop.

To enable others skilled in the art to make and use my invention, I have marked corresponding parts with similar letters, and will now give a detailed description.

A represents a substantial frame, made of wood or other suitable material, and supported on legs C C C C, and to which frame is attached an inside rim or hoop B, made of the same material as the frame, and such a size as will clamp a wash-vessel, and hold it a short distance from the floor, as seen at X, fig. 1, and also hold it directly under the rollers L L' when shut together.

The devices for operating the rollers are as follows:

The lower ends of levers J J are pivoted to the frame A at a, and their upper ends to the roller L'; and levers K K are pivoted to the frame A at the same points as the levers J J, and their upper ends pivoted to a roller L.

Short braces G G are pivoted to the lower ends of levers K K at b b, and to the curved ends of levers E E at c; and short braces H H are also pivoted to the levers E E, and to the braces J J at d d, as clearly shown at figs. 1 and 2.

The curved levers E E are pivoted to metal supports F F, rigidly attached to the frame, and their outer ends are made to support a treadle, D, on which the foot is put when a mop is to be wrung.

The levers above described, together with the braces, can be made of light wrought iron, at small cost, and, when properly put together, will operate the rollers L' L readily, and be very durable. And, to prevent rusting, they can be galvanized with zinc, which will give the wringer a neat appearance, and obviate any objection which may be raised to the use of so much iron.

### Operation.

The vessel containing the mop-water should be set in the hoop B, as seen at X, fig. 2, and the rollers L L' thrown back, so as to be out of the way of the mop, when it is to be dipped in the vessel. When the mop is to be wrung, it should be held between the rollers while the treadle D is forced downward by the foot, and then drawn from the rollers in the usual manner of such kind of work.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The combination of the levers J K E, braces H G, supports F F, treadle D, frame A, hoop B, with rollers L L', the latter being arranged to open and close over the top of a wash-vessel, as and for the purpose herein shown.

Witnesses:

AARON B. SMITH.

R. F. DYER.

H. B. WILLOUGHBY.