

(No Model.)

M. P. BUFFUM.

DEVICE FOR CONVERTING MOTION.

No. 308,129.

Patented Nov. 18, 1884.

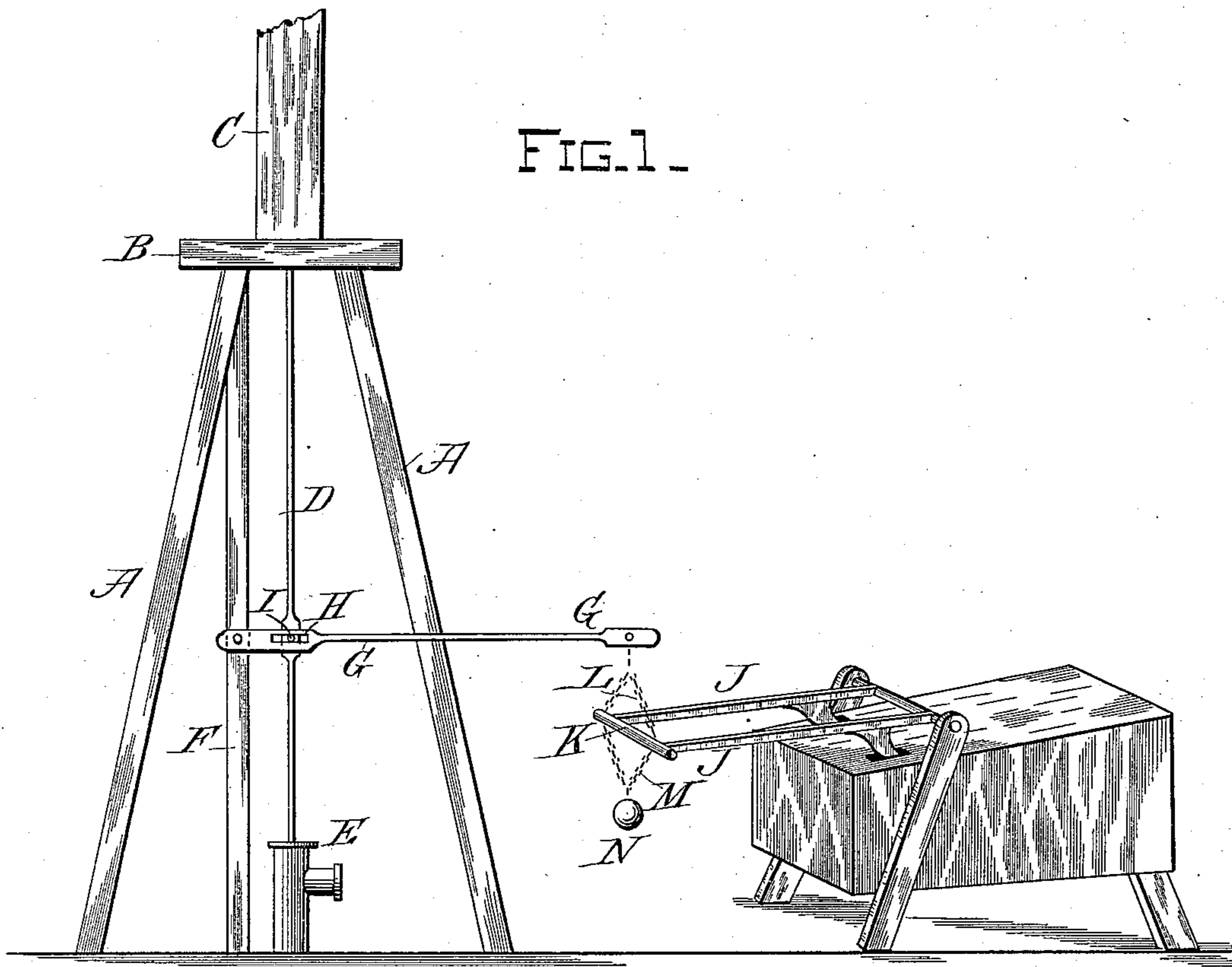
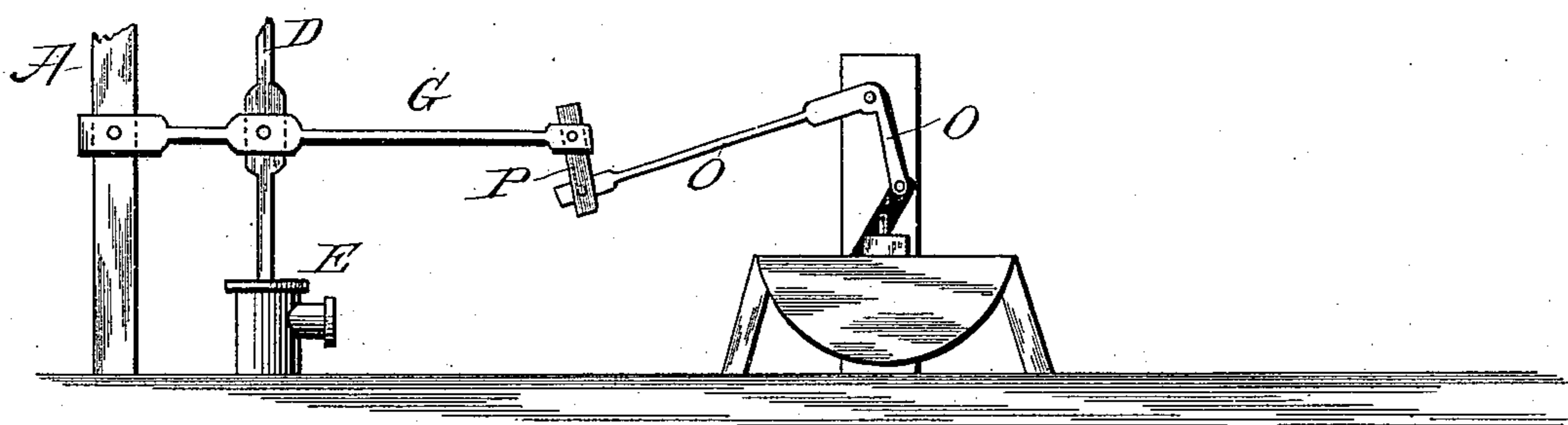


FIG. 2.



WITNESSES \_\_\_\_\_

INVENTOR \_\_\_\_\_

Willmer Bradford  
Joseph Cooney

Mervin P. Buffum  
By E. Wm Smith  
Attorney.

# UNITED STATES PATENT OFFICE.

MERVIN P. BUFFUM, OF DUNNIGAN, CALIFORNIA.

## DEVICE FOR CONVERTING MOTION.

SPECIFICATION forming part of Letters Patent No. 308,129, dated November 18, 1884.

Application filed May 2, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, MERVIN P. BUFFUM, of Dunnigan, in the county of Yolo and State of California, have invented certain new and useful Improvements in Devices for Converting Vertical Motion into a Horizontal Reciprocating Motion, of which the following is a specification.

My invention relates to an improved device for converting vertical motion into a horizontal reciprocating motion, the object being to provide a means whereby the vertical movement or motion of windmill pump-rod may be transmitted to the arms or lever-handles of a washing-machine. I attain these objects by the means illustrated in the accompanying drawings.

In the drawings hereunto annexed, and which form a part of this specification, Figure 1 is an elevation representing the lower portion of a windmill and showing my improved power-converting device connected with a washing-machine. Fig. 2 illustrates a modification.

Similar letters of reference are used to indicate like parts throughout the several views.

A represents the supporting-timbers or frame-work of an ordinary windmill; B, the platform, and C the penstock.

D represents the pump-rod, and E the well-casing.

At a short distance from the pump-rod, and parallel with it, I erect a perpendicular timber or upright, F, and to this upright I pivot one end of a lever-arm, G, which is provided with a slot, H, working upon a lug or pin, I, projecting from the pump-rod D. The washing-machine is to be placed at a suitable distance from the windmill-frame; but such distance will ordinarily be regulated by the length of the lever-arm G.

For the purposes of illustration I have shown a washing-machine of that class having reciprocating rubbers or rubbing-faces and horizontally-projecting arms or levers operated in a vertical manner.

The letter J indicates the arms of this washing-machine, and K the cross-bar connecting the ends of the same.

To the outer ends of the cross-bar K, I attach the bifurcated chain L, which is connected to the outer end of the lever-arm G, which extends out over the arms of the wash-

ing-machine, as shown in Fig. 1. A similar chain, M, depends from the cross-bar K, and to it is attached a weight, N, the operation of which will be hereinafter more fully set forth.

The operation of my improved power-converting device will be as follows, to wit: As the pump-rod rises on its upstroke it will lift up the outer end of the lever G, raising the arms or handles of the washing-machine and the weight N, and while this movement is being made the rubbers will pass but lightly over the faces or surface of the clothes contained within the machine; but when the pump-rod commences on its downward stroke it exerts no pressure or power upon the washing-machine, which is then solely operated by the weight of the ball N, the specific gravity of which draws the handles of the machine down, and thus causes the rubbers or wearing-faces of the machine to bear toward each other and perform the usual operations of a washing-machine.

In the modification shown in Fig. 2 a washing-machine having horizontally-moving handles is shown, and the cross-bar of these handles is connected to the lower arm of a bell-crank lever, O, the long arm of which is connected by a link, P, with the lever-arm G. In this case the weight N is dispensed with, and the rubbers of the machine are operated by a positive action or continuous connection with the power-producing mechanism or pump-rod of the windmill.

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

In a device for converting vertical into a horizontal reciprocating motion, the lever G, pivoted at one end and operated by the vertically-reciprocating pump-rod D, in combination with the handles J, connecting-chains L, M, and weight N, all combined, constructed, and arranged to produce a horizontally-reciprocating motion in a washing-machine, substantially as shown, for the purpose specified.

In testimony that I claim the foregoing I have hereunto set my hand and seal.

M. P. BUFFUM. [L. S.]

Witnesses:

C. LA DUE,  
JAS. S. ROLLINS.