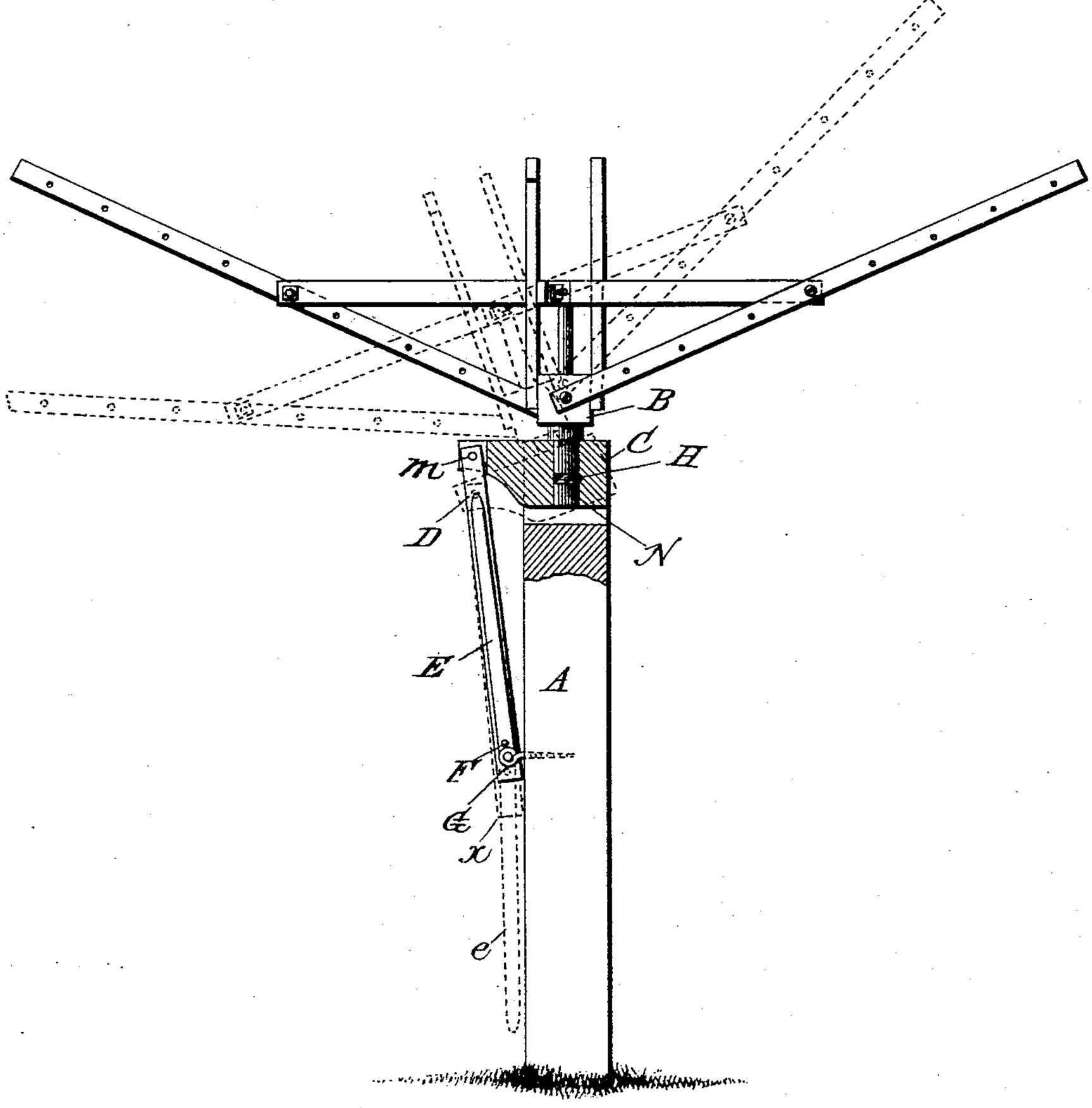
(Model.)

# H. G. MILLER.

## CLOTHES REEL.

No. 411,162. Patented Sept. 17, 1889.

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# UNITED STATES PATENT OFFICE.

HARRY G. MILLER, OF WINONA, MINNESOTA.

## CLOTHES-REEL.

SPECIFICATION forming part of Letters Patent No. 411,162, dated September 17, 1889.

Application filed November 23, 1888. Serial No. 291,703. (Model.)

*To all whom it may concern:*

Be it known that I, HARRY G. MILLER, a citizen of the United States, residing at Winona, in the county of Winona and State of Minnesota, have invented a new and useful Improvement in Clothes-Reels, of which the following is a specification.

In the accompanying drawing, the figure is a side elevation of my improved clothes-reel, showing the upper part of the standard, and also the block C, in section.

My invention relates to that class of clothes-reels in which the arms (either bolted to or set in sockets at a center) rise at an angle of twenty-three degrees (more or less) with the level. The construction of said arms or superstructure forms no part of this invention, except only the lower part or gudgeon of the center piece. (Marked in the accompanying drawing B.)

The object of the invention is to tilt or tip the entire frame above the post which supports it, (and in the drawing marked A,) so that the wires strung from arm to arm and rising one above another when the reel is erect may be lowered to a common level, head high, while the washing is placed, and again raised to its proper position with the greatest ease and convenience. I attain these objects by the mechanism illustrated in the accompanying drawing, the strong lines indicating the position when erect, the dotted lines indicating the position when tipped or tilted.

A is a post placed in the ground and having its head cut, as indicated in the one-half section of the figure, thus ⌐└┘¬, so as to receive a tilting block, (marked C,) which block in turn receives the round gudgeon of the superstructure B. The three parts are secured together by a single bolt (marked H) passing through the branches of the fork in the standard, the tilting block C, and a collar cut in the gudgeon B (marked N) in such manner that the block C may be tilted and the gudgeon B may be revolved, and at the same time secure the superstructure to the post A.

E represents a lever moving on a hinge or similar fulcrum at G out from the post A and in the direction of the extension of the block C. The piece D is received in the notched end of C, fastened with a small bolt M passing through C laterally, and is attached to E with a small bolt at F in such manner that the lever E, being operated to the center G to the position *e*, will draw the end of D to X, thus tilting the superstructure resting on C to the position indicated by the dotted lines.

The lever at either E or *e* is self-locking by reason of the points F and X being in the direct tension line.

I claim as my invention—

The tilting clothes-reel herein described, consisting, essentially, of the standard having its upper end forked, the block C, having a vertical socket and a lateral arm journaled in the fork of the standard, the center piece B, carrying clothes-supporting arms and having its lower vertical stem provided with an annular groove, the pin passing through the block, and also the groove in the stem of the center piece, the arm D, pivoted at one end to the lateral branch of the tilting block, and the hand-lever pivoted to the lower end of the arm D and also pivoted to the standard, whereby the reel may be locked in a tilting position and manipulated, substantially as specified.

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