To all whom it may concern:

Be it known that I, LOUIS EISENMAN, a citizen of the United States, residing at New York city, county of Kings, and State of New York, have made a certain new and useful Invention in Clothesline Pulley-Blocks, of which the following is a specification.

This invention relates to improvements in clothes line pulley-blocks.

One of the objects of my invention is to provide a pulley block arranged so that a clothes line, that is to say, a double clothes line, having a knot or clothes thereupon, can be operated in one direction that is to say, continuously operated in one direction. To accomplish this result, the pulley block must be designed to permit the movement thereabout of the clothes and pins upon the line.

To accomplish this result, I provide a pulley and frame therefor of special design.

In the accompanying drawing which sets forth an embodiment of my invention.

Figure 1 is a diagrammatic view of a pair of my improved pulley blocks and a clothes line broken away to illustrate the passage of objects upon the line through the pulley frame.

Fig. 2 is an enlarged side view of my improved pulley block.

Fig. 3 is a sectional plan view on line 3—3 and Fig. 4 is a perspective view of a preferred form of clothes pin.

As herein arranged, my invention consists of a frame 5 carrying a pulley wheel 6 rotatably mounted therein and held by a pin 7. The pulley 6 will be preferably supported by ball bearings not shown. The frame 5 is shown enlarged or formed into a loop 8 at one end thereof to permit of the passage of the pins 9. The frame 5 is not continuous, that is to say, is not an unbroken member but is provided with an opening 10 adjacent the pulley 6 for the passage of the clothes. The opening 10 will be greater in width than the diameter of the rope 11, hence said rope can be passed through said opening in order to place it upon the pulley.

To prevent the rope from prematurely passing through said opening or falling off the pulley, I provide a yieldable gate 12 in the form of a roller 13 carried by a longitudinally movable spindle 14 carried by a bracket 15 mounted on the pulley frame 5. The spindle 14 carries a spring 16 which lies between the frame 15 and block 17 carried by the spindle 14. The action of spring 16 is to keep the roller 13 in extended position to partly close opening 10 to prevent the rope 11 from dropping through said opening. The rope can, however, be passed through said opening by merely forcing the roller backward toward frame 15. The frame 5 will be provided with an eye 18 to engage a hook or the like in order to hang the pulley-block for use.

One of the advantages of my improved block is that clothes or articles upon a line can be pulled through thereby enabling more clothes or other articles to be dried to be placed upon a line than could be placed if the clothes or other articles could not be passed through the blocks. Usually but one run of a two run clothes line can be used especially if said line extends from a window some distance from the ground to a pole, this is evident. By the employment of my improved blocks both runs can be used, hence more articles to be dried can be placed upon the line and both runs can be supplied with clothes from the same point, a window for instance.

It will be evident that articles upon the line, one of said articles being indicated by 19, will pass around the circular member 20 of the frame 5 and through opening 10. As the articles pass through opening 10 roller 13 will be pressed backward to allow the articles to pass through the opening. In combination with my pulley block, I prefer to employ a special pin, indicated by 9, said pin being in the form of a clip provided with projection 21 to enable it to be gripped by the fingers when said pin is to be taken off the line. It will be seen that frame member 20 is somewhat larger in diameter than the pulley 6, hence this member acts as a cam to force the pins, during the movement of the rope, to a substantially horizontal position, see Figs. 1 and 3 just before said pins pass through the frame 5. By this means the pins pass over the roller 13 and the clothes between said roller and member 20 of the frame, as can be seen to the left of Fig. 1. The pins or clips 9 will of course be applied to the line vertically. The cam portion 20 acts as has been stated, to force the pins to the desired position before they pass through the frame.
Having described my invention, what I claim is:

1. In a pulley block, a frame having an opening through the wall thereof, a yieldable gate to partly close the opening, a pulley adjacent said opening and a cam member adjacent the pulley.

2. In a pulley block, a frame having an opening through the wall thereof, a pulley carried by the frame adjacent said opening, that portion of said frame which supports said pulley being larger in diameter than said pulley for the purpose set forth and a yieldable gate to partly close said opening.

3. In a pulley block, a frame having an opening through the wall thereof, a pulley adjacent said opening, a yieldable gate extending into said opening, and means adjacent said pulley arranged to force a clothes pin from a vertical to a substantially horizontal position during the passage of a rope, carrying said clothes pin, around said pulley.

Signed at Brooklyn, N. Y., this 19th day of August, one thousand nine hundred nineteen.

LOUIS EISENMAN.

Witnesses:

DAVID EISENMAN,
HELEN A. GODFREY.