(Model.)

T. F. DURAND.

CLOTHES LINE.

No. 349,147. Patented Sept. 14, 1886.

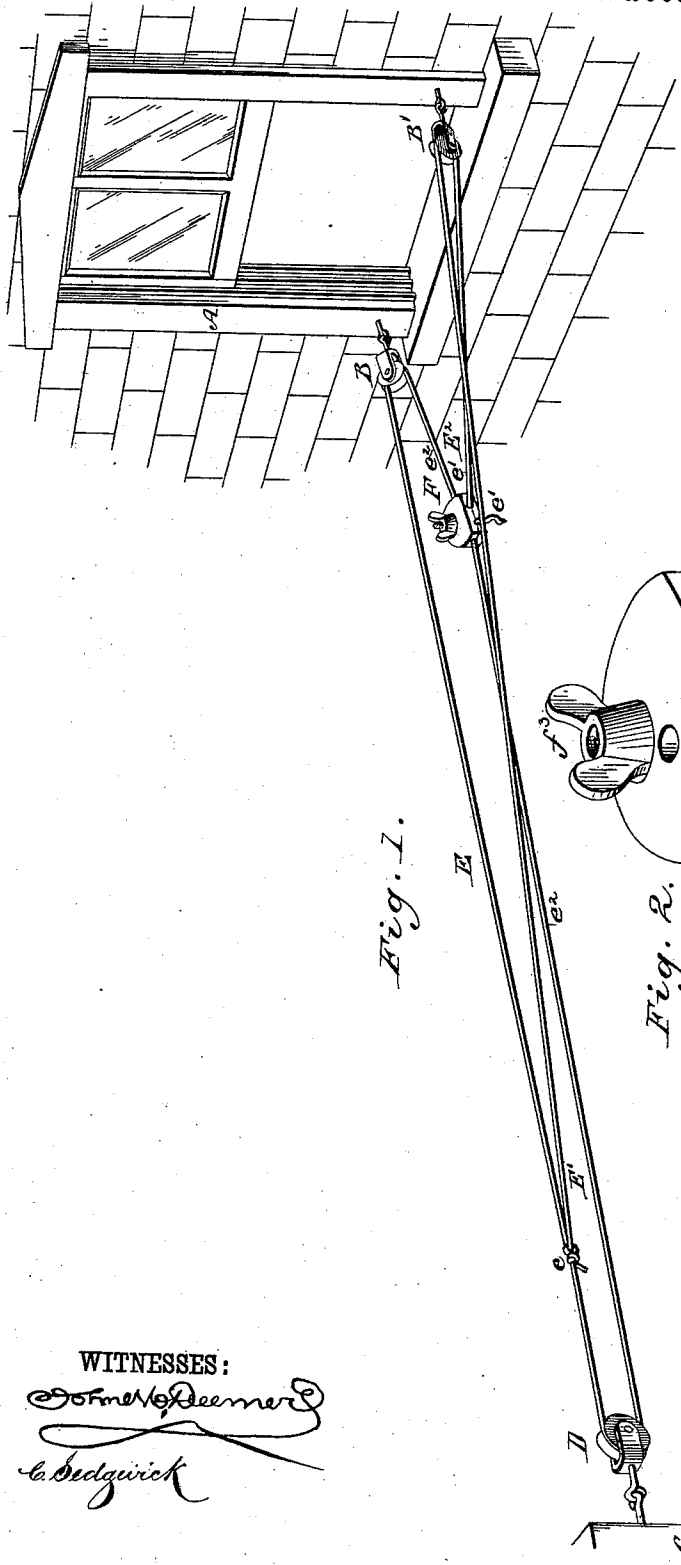


Fig. 1.

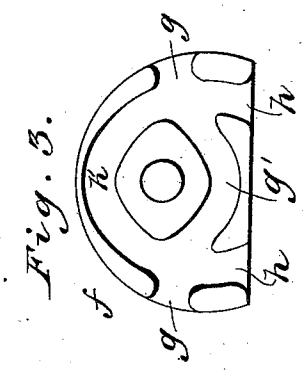


Fig. 3.

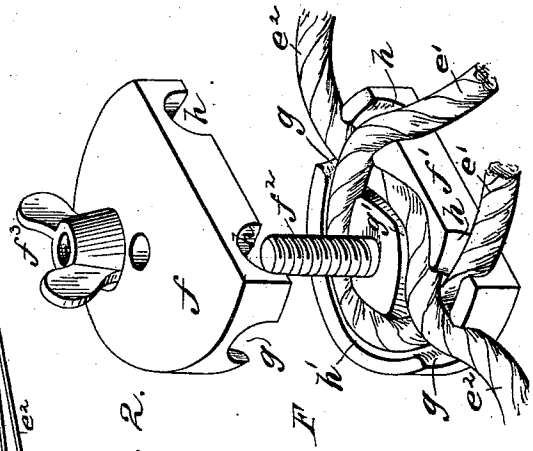


Fig. 2.

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UNITED STATES PATENT OFFICE.

THOMAS F. DURAND, OF NEW YORK, N. Y.

CLOTHES-LINE.

SPECIFICATION forming part of Letters Patent No. 349,147, dated September 14, 1886.

Application filed October 7, 1885. Serial No. 179,242. (Model.)

To all whom it may concern:

Be it known that I, THOMAS F. DURAND, of the city, county, and State of New York, have invented a new and Improved Clothes-Line, of which the following is a full, clear, and exact description.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a perspective view of my new clothes-line applied to a window-frame and outside post. Fig. 2 is a perspective view of the clamp for fastening two parts of the line together, and Fig. 3 is a plan view of the inner surface of the upper plate of the clamp.

The invention will first be described in connection with the drawings, and then pointed out in the claims.

In the window-frame A, I secure two swiveled pulleys, B B′; and to the post C, I secure a single pulley, D. Over these pulleys I place a line, E, the ends *e e′* of which are joined to other parts of the line, so that each end forms an angle, as at E′ and E^2, with the adjacent main parts of the line which pass directly to and over the pulleys. The line is applied to the pulleys by taking end *e* and passing it around pulleys B D, drawing it taut and knotting it to the main part of the line, as shown in Fig. 1. The other end, *e′*, of the line is then passed over the pulley B′ and made fast to the lower part, e^2, of the line, preferably by means of a clamp, F.

In use the line will be drawn so the juncture formed by the clamp F will come as near as possible to the window-sill. The clothing will be attached to both lower lines next to the pulleys B B′, and the part of the line bearing the clothing will be moved outward as the hanging of the clothing proceeds. In this manner it will be seen that with three single pulleys and a line equal in length to three times the distance from the window A to the post B, two full lengths of line are available for clothing.

The clamp F is composed of the upper and lower plates, *f f′*, secured together by a screw-bolt, f^2, and thumb-nut f^3. The plates *f f′* are correspondingly cut away at their opposite edges, as shown at *g g*, and their adjacent surfaces are correspondingly grooved, as shown at *g′ g′*, to form a curved passage through the clamp for the portion e^2 of the rope or line E. The plates *f f′* are also correspondingly cut away at their straight edges, as shown at *h h*, which cut-away places are the terminals of corresponding semicircular grooves *h′ h′*, made in the closing surfaces of the plates *f f′*, which grooves, when the plates are put together, form a curved passage for the portion *e′* of the line E. The portion e^2 of the line is placed in the clamp so as to pass first under and then over the portion *e′*, as shown in Fig. 2, so that when the plates *f f′* are clamped together the lines will be pressed one upon the other, and thus held from slipping.

When the clamp F, holding the line, as described, is forced outward away from the window-sill, the angle E′ and knot or end *e* will approach the pulleys B B′, and when the clamp F reaches the pulley D the knot *e* will stand between the pulleys B B′, and at this time the pulleys B B′ will automatically reverse or turn on their swivels, thus enabling the full extent of two of the lines to be utilized, and preventing friction and strain upon the line and the pulleys.

The part e^2 of the line passes directly through the clamp F, so that the end *e′* may be easily joined to it by the clamp; and by the use of the clamp, constructed as described, any slack in the line may be easily taken up.

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

1. The single pulley-blocks B B′ and the pulley-block D, in combination with the line E, passed over the pulleys and joined to form two angles, E′ E^2, a single part of the line running over each pulley, substantially as described.

2. The pulley-blocks B B′ D and line E, joined to form two angles, E′ E^2, in combination with a clamp, F, for joining one end, *e′*, of the line with a straight main portion, e^2, substantially as described.

3. The clamp F, composed of the plate *f*, recessed on opposite sides at *g g*, and again at *h h*, at right angles to the side recesses, *g g*, and grooved at *g′ h′*, the grooves joining at the side openings, *g g*, and the plate *f′*, recessed at its sides at *g g*, and also at *h h*, and grooved at *g′ h′*, to correspond with the grooves and recesses in plate *f*, in combination with the bolt f^2 and nut f^3, substantially as described.

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Witnesses:
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