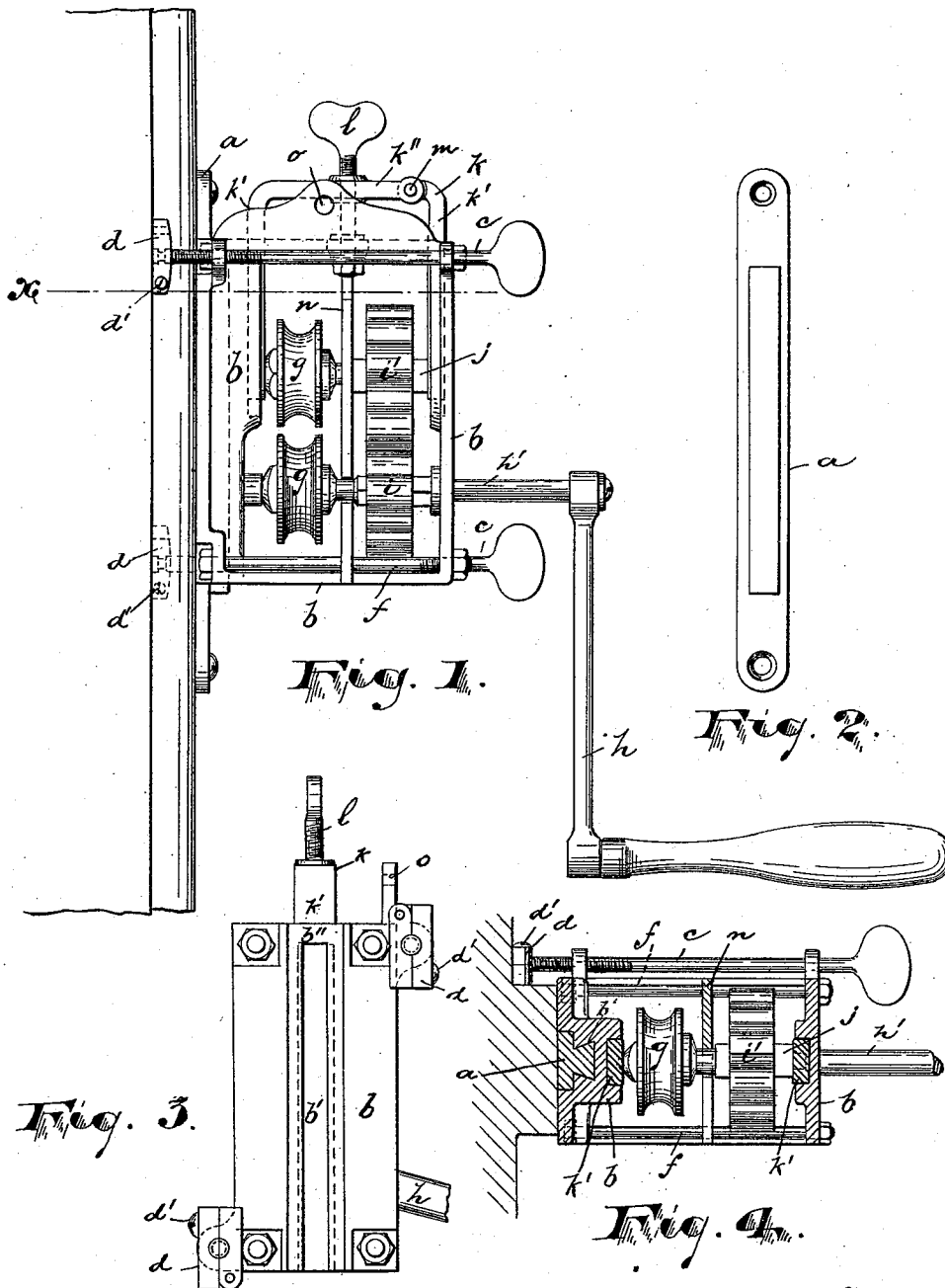


(Model.)

E. & C. E. HECHT.
CLOTHES LINE OPERATOR AND HOLDER.

No. 534,264.

Patented Feb. 19, 1895.



Witnesses

Inventors

Robert Tollberger
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UNITED STATES PATENT OFFICE.

EPHRAIM HECHT AND CHARLES E. HECHT, OF NEWARK, NEW JERSEY.

CLOTHES-LINE OPERATOR AND HOLDER.

SPECIFICATION forming part of Letters Patent No. 534,264, dated February 19, 1895.

Application filed July 30, 1894. Serial No. 518,925. (Model.)

To all whom it may concern:

Be it known that we, EPHRAIM HECHT and CHARLES E. HECHT, citizens of the United States, residing at Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Clothes-Line Operators and Holders; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

The object of this invention is to facilitate and render more easy the operation of working clothes lines, such as are used in connection with tenements and are stretched from the windows to the pulleys upon the pole stationed at a distance from the house.

The invention consists in the improved clothes line operator or worker, and in the arrangements and combinations of the parts, substantially as will be hereinafter set forth and finally embraced in the clauses of the claim.

Referring to the accompanying drawings, in which like letters of reference indicate corresponding parts in each of the views, Figure 1 is a front elevation of the improved device. Fig. 2 is an elevation of the bracket, in detail, to which the worker is secured. Fig. 3 is a side view of the worker, showing the groove formed to receive said bracket, and Fig. 4 is a section taken at line, *x*.

In said drawings, *a*, indicates a bracket having on the outer face thereof, a dove-tail tongue, extending longitudinally thereon. *b*, is a frame having at one edge or side thereof, a groove, *b'*, corresponding with said dove-tail tongue, which is, at its upper end, closed to provide a stop, *b''*, by means of which the frame is prevented from falling from the bracket. The said frame is thus adapted to slide, vertically, on said bracket and is very easily and quickly withdrawn therefrom. To give rigidity to the frame on said bracket, we have provided said frame with set screws, *c*, having heads, *d*, adapted to engage the window casing at opposite sides of the said tongue

or bracket, so that, when screwed up, there will be no looseness of the worker on the bracket, and consequent rattling or noise occasioned by such looseness.

The frame is preferably made in sections, as indicated, the same being screwed together by bolts, *f*, in any suitable manner. Within said frame are journaled rollers, *g*, *g*, having peripheral grooves adapted to receive the rope. The said rollers are made of rubber or other suitable frictional material adapted to cling to the rope and prevent the same from slipping when the rollers are turned and the rope, with its burden of clothes, drawn to or from the window. The said rollers are operated by a crank, *h*, arranged on a shaft, *h'*, with one of said rollers, the said shaft being also provided with a cog wheel, *i*, which meshes with a corresponding cog wheel, *i'*, upon a shaft, *j*, with the second roller.

By means of the cogs meshing with one another as described, the rope-clamping rollers are operated simultaneously and together when the crank is turned. One of the said rollers is arranged in adjustable bearings so that the said roller may be forced nearer to or drawn from the other, and, thus, the friction upon the rope be increased or diminished. To secure the desired adjustment of rollers, we have provided a sliding yoke, *k*, in the arms, *k'*, of which, the roller shaft, *j*, is journaled. The side walls of the sectional frame, are provided with grooves for the arms of the yoke, which arms extend from said grooves through perforations in the upper sides of the frame.

Above the frame, the arms of the yoke are connected, the connecting portion, *k''*, providing a threaded bearing for an adjusting screw, *l*. Said adjusting screw is arranged in said threaded bearing, and is connected with the upper face of the frame, so that, as said screw is turned, the yoke is raised or lowered, as will be apparent.

The yoke is preferably made in sections, to enable the shaft, *j*, to be placed therein. The sections are pinned together, as at *m*, Fig. 1.

To prevent the rope from entering between the cogs or otherwise interfering with their movements, we have provided between the cog wheels and the friction wheels, a partition, *n*, which serves to prevent any interference.

Said partition is an independent piece, and is clamped between the sections of the frame, *b*, in any suitable manner.

The frame is provided with an eye, *o*, by which the device can be suspended from a suitable nail or pin when not in use. The heads, *d*, of the screws, *c*, are removable from said screws to allow of the withdrawal of the latter from the frame, so that the said frame can be taken apart. Said heads are in pivoted sections held together upon the screws by clamping or holding screws, *d'*, in any suitable manner.

Having thus described our invention, what we claim as new is—

1. A clothes line worker in which is combined with a bracket having a dove-tailed rib, and a frame having a groove corresponding thereto, set screws arranged on opposite sides of said frame and provided with heads to en-

gage the window frame, grooved friction rollers, *g*, *g*, cog wheels, and crank, all arranged and operating substantially as set forth.

2. A clothes line worker, in which is combined with the frame having a shaft, *h'*, journaled in said frame and carrying a roller, *g*, cog wheel, *i*, and crank, *h*, a yoke, *k*, adjustably arranged in said frame and providing journal bearings for a shaft, *j*, carrying a friction roller, *g*, and cog wheel, *i*, co-operating with the cog wheel and friction wheel of the shaft, *h'*, substantially as set forth.

In testimony that we claim the foregoing we have hereunto set our hands this 27th day of June, 1894.

EPHRAIM HECHT.
CHAS. E. HECHT.

Witnesses:

CHARLES H. PELL,
LOUISA BROWNE.