Oct. 23, 1923. 1,471,328

G. F. DE GRASSE

CLOTHES DRIER

Filed July 23, 1921

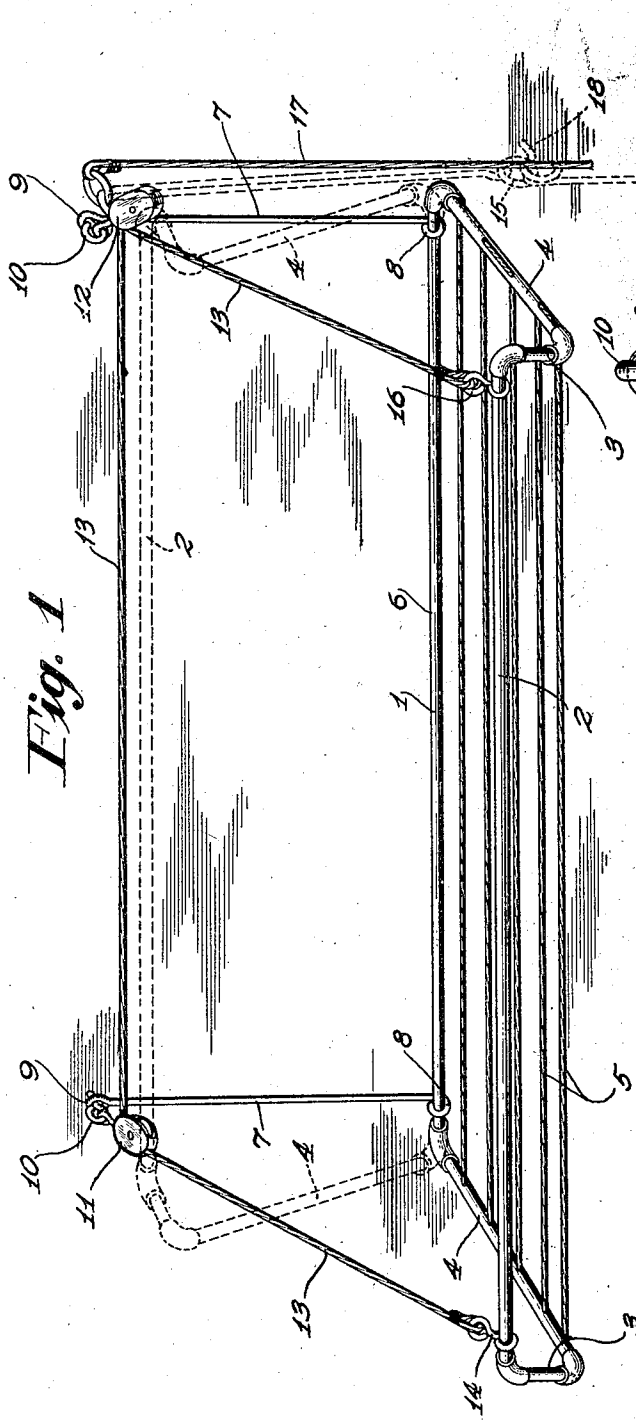


Fig. 1

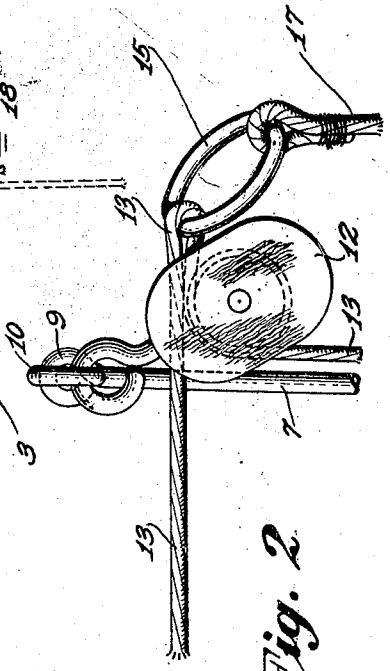


Fig. 2

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UNITED STATES PATENT OFFICE.

GEORGE F. DE GRASSE, OF BROOKLYN, NEW YORK.

CLOTHES DRIER.

Application filed July 23, 1921. Serial No. 486,919.

To all whom it may concern:

Be it known that I, GEORGE F. DE GRASSE, a citizen of the United States, residing at New York city, borough of Brooklyn, in the county of Kings and State of New York, have invented a certain new and useful Clothes Drier, of which the following is a specification.

This invention is a clothes drier, and, speaking generally, the object of the invention is to enable a structure of the class described to be compactly and pivotally positioned on the wall of a room, and in such manner that, when not in use, it may be readily swung against the wall and thereby be entirely out of the way.

The drier is simple in construction, economical to manufacture, readily installed, easily and quickly manipulated and generally efficient for its intended purpose.

Features of the invention, other than those adverted to, will be apparent from the hereinafter detailed description and claims, read in conjunction with the annexed drawings.

The drawings illustrate one practical and preferred embodiment of the invention, but the construction shown therein is to be regarded as typical, only, and not exclusive of the different forms in which the invention may be given embodiment.

Figure 1 is a perspective view showing the drier in lowered, operative position in full lines and in collapsed or raised position in dotted lines; and,

Figure 2 is an enlarged detail of a fragment of the construction showing the manner in which the lifting and supporting ropes may be efficiently associated with the main lifting cable.

Referring to the drawings, 1 designates a rectangular frame, which, in the preferred embodiment of the invention, may be conveniently formed by joining together lengths of pipe and angle fittings. This frame may be so constructed, as to lie in the same plane throughout, but, in the preferred embodiment of the invention, a pipe 2 forming the forward edge or reach of the frame is positioned on upstanding small lengths of pipe 3, so as to provide a raised bar along the forward edge of the frame. The end bars or reaches 4 of the frame are perforated at suitable corresponding intervals and a cord or clothesline 5 is passed longitudinally of the frame and threaded through the perforated end bars shown in Figure 1, so as to provide relatively long parallel lengths of line on which the clothes to be dried may be readily hung. The rear bar 6 of the frame has associated therewith and near its opposite ends two suspension links or hangers 7, each of which is provided at its lower end with a curled portion 8, embracing the bar 6 and the upper end of each suspension link is further provided with a loop or eye 9.

In mounting the drier in position on the wall, two screw eyes 10 are employed, one of which is passed through each of the eyes 9 of the links 7 and thereupon screwed into the wall. These screw eyes not only perform the function of anchors for the links 7, but also serve as anchors for two pulley blocks 11 and 12, the hooks of which are passed through the screw eyes 10 and preferably bent shut, so as to hold the pulley blocks in position.

For supporting the frame in horizontal position with respect to the face of the adjacent wall on which it is mounted, I employ a rope or cable 13. The rope or cable is passed through a ring 15, and one end of the rope is thereafter passed through the block 12 and through the block 11 and secured by means of a hook 14 to the front bar 2 adjacent one end thereof. The other end of the rope 13 is also passed through the block 12 and passed direct to and secured by means of a hook 16 to the near end of the front bar 2. In practice, I find that the block 12 may be either a single or double block, though the rope 13 will work easier if its two ends are passed over different sheaves of a double block. A single length of rope 17 is secured to the ring 15 and serves as a convenient means for operating the device.

In installing the device, the whole may be readily positioned on the wall of a room at a convenient height, preferably near the ceiling, by simply screwing the two screw eyes 10 into the wall after passing them through the eyes 9, or, if desired, screw eyes 10 may be simply driven into the wall.

In the course of manufacturing the device, the rope or cable 13 is made of such length that when thus supported on the wall, the frame will hang horizontally, the ring 15 serving to preclude the intermediate portion of the rope from pulling through the block 12.

When the device is installed, it will appear as shown in full lines in Figure 1

and clothing may be readily hung upon the parallel lines 5 in the usual manner. After the clothes are dried and it is desired to move the drier into collapsed position, the same may be readily folded up against the wall by simply drawing down on the rope 17 and engaging the ring 15 with a hook 18 screwed in the wall below the drier.

When it is desired to again use the drier, the ring 15 is disengaged from the hook 18, whereupon the weight of the frame will cause the same to gravitate into horizontal position.

As heretofore stated, the frame may be built so that all parts thereof will lie in the same plane or the front bar 2 may be raised. I prefer to use a raised front bar, however, since this construction permits of more ready access to the line 5 and also serves as a guard to preclude articles, which may be positioned upon the drier, when the same is used as a shelf, from falling off the same.

The upstanding member 2 of the main frame not only permits of ready access to lines 5, but when the frame is elevated into raised position, any clothes which might be on the lines are kept free from the wall. Moreover, when in the position described, it forms an overhanging portion at the top, as indicated in dotted lines in Figure 1, thereby causing the frame to automatically gravitate into open position.

In practice, a suitable size of frame, particularly for installation in small rooms is 5 feet by say 18 inches, and with six lines as shown. This provides, in a very compact space, a total length of line of 30 feet. The installation is advantageously made at such height as not to interfere, when in down position, with a person walking therebeneath and yet be within handy reach for loading with clothes.

It will be understood that the specific invention described may be modified in formal respects, such as by the substitution of equivalents, and that parts of the complete mechanism described may be used alone, or in other environments, without departing from the spirit or substance of the broad invention, the scope of which is commensurate with the appended claims.

Having thus fully described the invention, what I claim as new and desire to secure by Letters Patent is:

1. A drier embodying a substantially rectangular rigid frame, a plurality of ropes stretched across the frame and providing means for hanging clothes thereon, a plurality of links, each of which has an eye at each end, with one eye of each link embracing the inner bar of the frame, a plurality of directional pulleys, a screw eye associated with each pulley, which screw eyes are adapted to be passed through the eyes at the free ends of the links and screwed into a wall for the purpose of supporting the frame on the wall and serving as an anchor for the pulleys, a ring, an operating rope passed through the ring with its free ends extending through the directional pulleys and secured to the outer side of the frame, and an operating rope secured to the ring, whereby said operating rope may be pulled to raise the frame and fold it against the wall and released to permit the frame to gravitate into substantially horizontal position.

2. A drier embodying a substantially rectangular frame having side and end bars, a clothesline stretched longitudinally of the frame to permit the hanging of clothes thereon, means for pivotally supporting one side bar of the frame on a wall, whereby the frame may be swung into up or down positions, and an operating cable secured to the outer side bar of the frame for raising and lowering it into up and down positions, the end bars of the frame being extended upward at their outer ends and the outer side bar connected to said outer ends so that the outer side bar is elevated above the remaining part of the frame to preclude the clothes from being drawn against the wall when the frame is raised.

In testimony whereof I have signed the foregoing specification.

GEORGE F. DE GRASSE.