Nov. 25, 1930. F. H. NEUBERGER 1,782,625

CLOTHESLINE FASTENER

Filed June 18, 1929

Fig. 1.

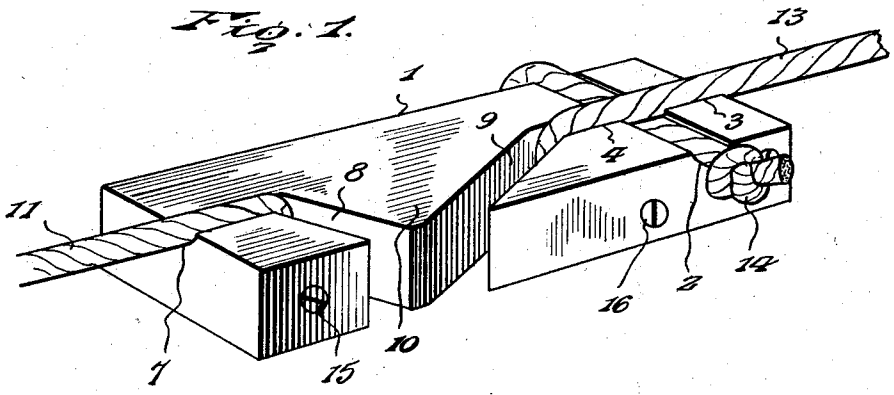
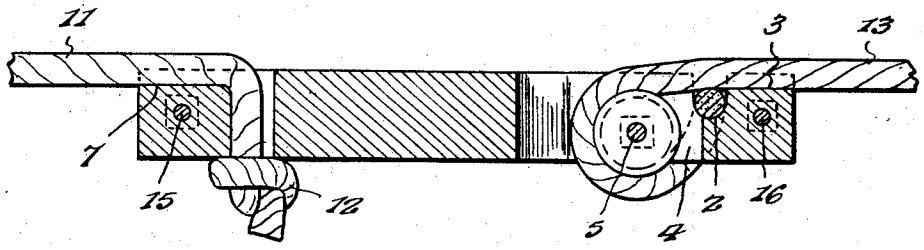


Fig. 2.



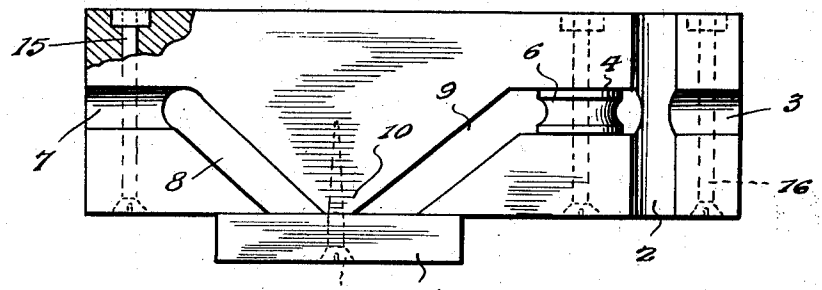


Fig. 3.

Inventor

F. H. Neuberger.

By Lacey & Lacey, Attorneys

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UNITED STATES PATENT OFFICE

FRANKLIN H. NEUBERGER, OF ENDICOTT, NEW YORK, ASSIGNOR OF ONE-TENTH TO EDWIN JAMES BRAND, OF JEFFERSONVILLE, NEW YORK

CLOTHESLINE FASTENER

Application filed June 18, 1929. Serial No. 371,802.

The present invention is directed to improvements in clothes line fasteners.

The primary object of the invention is to provide a device of this character wherein a clothes line or other rope or cord can be fastened without the necessity of tying knots to take up slack.

Another object of the invention is to provide a device of this character to effectively hold the line stretched and without the use of complicated clamps, the construction being such that the terminals of a line can be firmly secured and the line maintained under considerable tension.

Another object of the invention is to provide a device of this kind so constructed that the line can be easily and quickly released to permit adjustment without the necessity of tying or untying knots.

Still another object of the invention is to provide an article of this type which is extremely simple in construction, durable, efficient in operation and one which can be manufactured at a minimum cost.

With these and other objects in view, this invention resides in the novel features of construction, formation, combination and arrangement of parts to be hereinafter more fully described, claimed and illustrated in the accompanying drawing, in which:

Figure 1 is a perspective view of the device.

Figure 2 is a longitudinal sectional view through the same.

Figure 3 is a top plan view.

Referring to the drawing, 1 designates a block which may be formed from wood or any other material suitable for the purpose, said block having a transverse groove 2 formed adjacent one end thereof and intersected by a longitudinal groove 3, the former being somewhat deeper than the latter.

Alined with the groove 3 is a slot 4 bridged by a bolt 5 upon which is rotatably mounted a grooved pulley 6.

The block is further provided with a longitudinal groove 7 which is alined with the groove 3, the inner end of the groove 7 opening into a slot 8 formed diagonally in the block 1. Leading from the slot 4 is a diagonally disposed slot 9. It will be observed that the slots 8 and 9 define a substantially triangular shaped section 10 and that the outer ends of the slots 8 and 9 open at one side of the block, whereby the section 10 constitutes a guide for the line. The terminal 11 of the line is engaged in the groove 7 and has a knot 12 thereon to prevent withdrawal of the terminal through the inner end of the slot 8. The other terminal 13 of the line is engaged around the pulley 6 and is provided with a knot 14 to prevent fraying of the line.

As illustrated in Figure 1, a transverse stretch of the terminal 13 is engaged in the groove 2 while a longitudinal stretch thereof is engaged in the groove 3 and rests firmly upon the transverse stretch to hold the same firmly in the groove 2 to prevent slipping thereof when the line is under tension. The block 1 is preferably formed from wood and in order to strengthen the same, bolts 15 and 16 are passed therethrough.

By providing the slots 8 and 9, the terminals 11 and 13 of the line can be easily and quickly detached from the block or engaged therewith, as occasion may require.

I have illustrated in Figure 3, a turn button 17 pivotally mounted upon a screw 18 secured in the apex of the section 10, said button being of such length as to close the outer ends of the slots 8 and 9 to prevent accidental disengagement of the terminals 11 and 13.

The presence of the button will obviously permit the block to be handled when the line is not under tension without danger of the terminals becoming accidentally disengaged.

The pulley 6 will permit easy adjustment of the line, since it will reduce friction when adjustment is being made.

It will of course be understood that a fastener constructed in accordance with my invention can be used successfully on ships and sail boats for fastening the lines thereof in order that adjustment can be made without the necessity of tying or untying knots. The fastener can also be used with equally good results in connection with the guy ropes of tents.

From the foregoing it is thought that the operation and many advantages of the herein described invention will be apparent to those skilled in the art without further description and it is to be understood that various changes in the size, shape, proportion, materials, and minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

What is claimed is:

1. A line fastener comprising a block having a slot formed therein, a pulley rotatably mounted in the slot, said block having a longitudinal groove alined with the slot and a transverse groove intersecting the slot and longitudinal groove, and a line terminal passable through the slot for engagement with the pulley and having stretches thereof engaged in the respective grooves and in contact with each other.

2. A line fastener comprising a block having diagonally disposed slots formed therein, both opening at one side of the block for the passage of the line terminals, said block having angularly disposed grooves formed therein and in which stretches of one terminal of the line are engaged.

3. A line fastener comprising a block having diagonally disposed slots formed therein and having their ends opening at one side of the block, said block having a pulley rotatably supported adjacent one end of one slot, the line terminals being passable through the slots, one terminal being engaged with the pulley and having stretches disposed angularly upon one face of the block.

4. A line fastener comprising a block having diagonally disposed slots formed therein for the passage of the line terminals, said slots having their outer ends opening at one side of the block, means for securing the line terminals in the slots, and a button pivotally secured to the block for closing adjacent ends of the slots.

In testimony whereof I affix my signature.

FRANKLIN H. NEUBERGER. [L. S.]