Feb. 17, 1931. M. J. MAGNANT 1,793,330

LINE FASTENER

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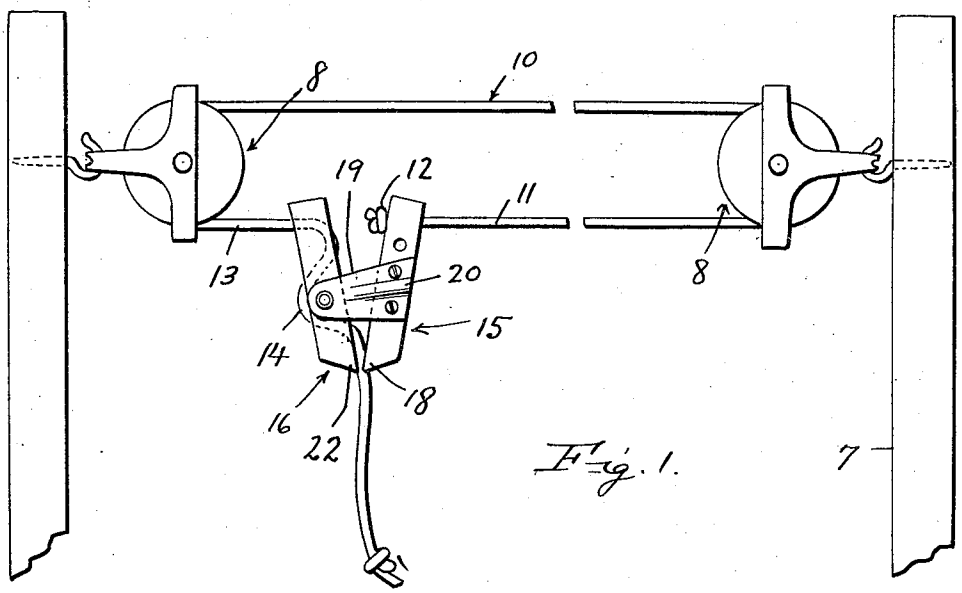


Fig. 1.

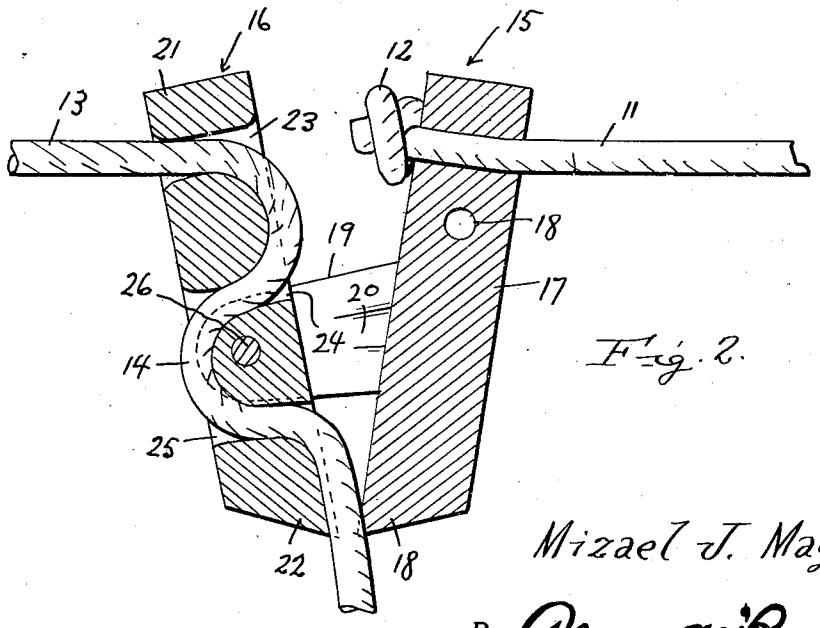


Fig. 2.

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Fig. 3.

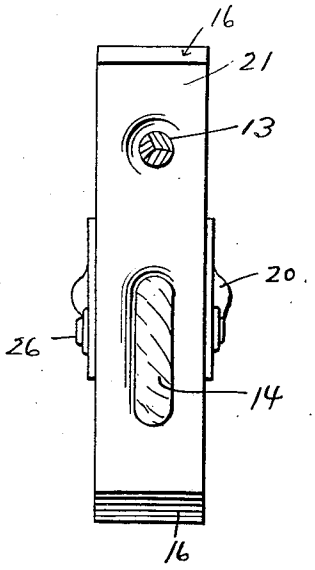
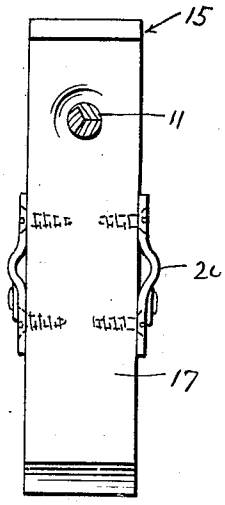


Fig. 4.



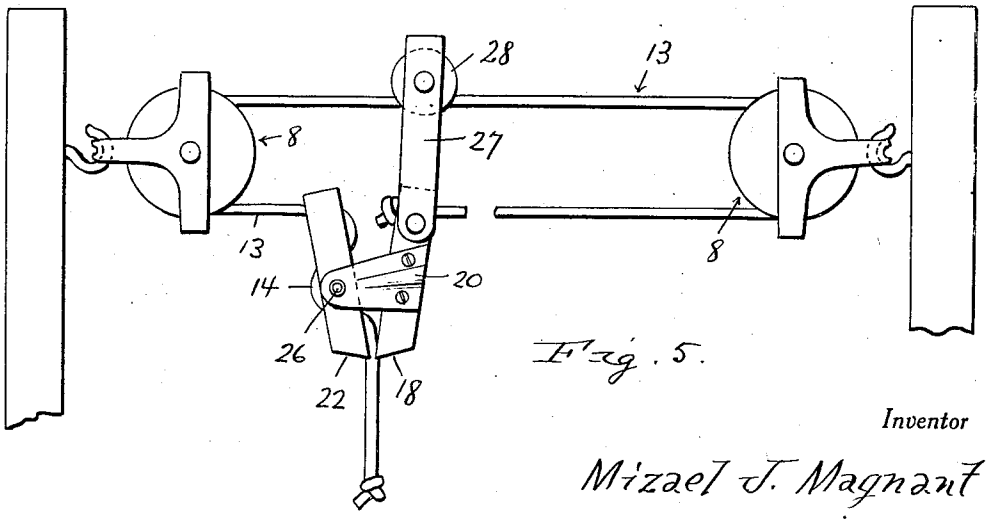


Fig. 5.

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UNITED STATES PATENT OFFICE

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LINE FASTENER

Application filed February 21, 1930. Serial No. 430,389.

This invention relates to an improved fastener in the form of a clamping device which is especially, but not necessarily, designed for use and association with clothes line constructions.

The invention has more particular reference to a clamp which is designed for employment on a clothes line embodying supporting posts, pulleys thereon, and a line trained over the pulleys, wherein one end of the line is securely anchored on the clamp and the other end adjustably associated with the clamp.

In carrying the invention into practice, I have developed what I believe to be a novel contribution to the art which is more efficient, simple, and economical than previous forms of devices with which I am familiar.

In the drawings:

Figure 1 is an elevational view of the clothes line structure provided with a clamp constructed in accordance with the present invention.

Figure 2 is an enlarged sectional view of the clamp showing the line-end associated with the parts thereof.

Figure 3 is an end view of the structure seen in Figure 2 showing the details in a direction from left to right.

Figure 4 is a view like Figure 3 showing the structure in a direction from right to left.

Figure 5 is a view like Figure 1 showing an added detail.

In the drawings, in Figure 1, the reference characters 6 and 7 designate the post and 8 and 9 represent the customary pulleys. The clothes-line is generally designated by the numeral 10 and the anchored end is indicated at 11 and this is provided with a knot as at 12. The free end portion is indicated at 13 and this includes an adjustable extremity 14 which is associated with the improved clamp.

The clamp comprises two parts; namely, the relatively stationary jaw 15 and the relatively movable companion jaw 16. The jaw 15 is in the nature of an elongated wooden block of rectangular configuration as indicated at 17 and this has its lower end bevelled and shaped as at 18 to bite into the terminal of the line as represented clearly in Figure 2.

At its upper end, this block 17 is formed with a hole through which the knotted end 11 of the line is passed and secured as seen in the drawings. The numeral 18 designates a pivot hole which serves in a manner to be hereinafter described. Mounted on this block 17 are bracket arms 19. These are of stamped sheet metal and rigidly fastened to the block at the center thereof. Each arm has an outwardly pressed reinforcing rib as at 20 to provide for durability and strength.

The companion jaw or block 21 is substantially the same in configuration, and includes the pointed end 22 for cooperation with the end 18. This block is formed at its top with a line hole 23, provided with a second hole as at 24 and a third hole at 25. This forms a tortuous passage through which the line-end 14 is passed as represented in Figure 2 to provide a sinuous curvature therein.

This manner of passing the line through these holes provides the desired snubbing action for holding the line in place, and at the same time allowing it to be either loosened or tightened by pulling the line back and forth through the holes 23, 24, and 25. The aforesaid bracket arms 19 straddle the intermediate portion of the block 21 are pivotally connected thereto as at 26. This connects the two jaws together in appropriate assembled relationship.

In practice, the knotted end of the line 12 is fastened to the jaw 15. The free end portion 14 is trained through the holes 23, 24 and 25, as shown in Figure 2. Then, it will be seen that the pull of the line itself will actuate the jaws to bind the ends 18 and 22 firmly against the terminals 14 to secure the lines in a fastened state. At the same time, this structure allows for loosening or tightening the line as is necessary because of shrinkage and weather conditions.

In some instances, I find it practical to provide a guide. This is shown in Figure 5 and comprises a carrier appliance 27 having a guide sheave or pulley 28 thereon. This rides on the upper stretch of the line and prevents twisting and displacement of the line.

It is thought that persons skilled in the art to which the invention relates will be able to obtain a clear understanding of the invention after considering the description in connection with the drawings. Therefore, a more lengthy description is regarded as unnecessary.

Minor changes in shape, size, and rearrangement of details coming within the field of invention claimed may be resorted to in actual practice if desired.

I claim:

1. A clothesline fastener comprising a relatively stationary jaw in the nature of a wooden block of elongated rectangular form having a line hole at its top and having its lower end tapered to provide a terminal gripping surface, a pair of bracket arms secured to the intermediate portion of said jaw and projecting laterally therefrom, a companion jaw in the nature of correspondingly shaped wooden block having its intermediate portion pivotally mounted between the free ends of the bracket arms, the lower end of said second-named jaw being tapered and pointed to cooperate with the terminal end of the line, said second-named jaw having a hole adjacent each end and an intermediate hole forming a tortuous passage for the terminal end of the line.

2. A clothesline fastener comprising a relatively stationary jaw in the nature of a wooden block of elongated rectangular form having a line hole at its top and having its lower end tapered to provide a terminal gripping surface, a pair of bracket arms secured to the intermediate portion of said jaw and projecting laterally therefrom, a companion jaw in the nature of correspondingly-shaped wooden block having its intermediate portion pivotally mounted between the free ends of the bracket arms, the lower end of said second-named jaw being tapered and pointed to cooperate with the terminal end of the line, said second-named jaw having a hole adjacent each end and an intermediate hole forming a tortuous passage for the terminal end of the line, together with a guide appliance comprising a carrier pivotally mounted on the first-named jaw, and a grooved pulley wheel on said carrier.

In testimony whereof I affix my signature.

MIZAEL J. MAGNANT.