

F. WAGNER.
LINE-FASTENER.

No. 171,890.

Patented Jan. 4, 1876.

Fig:1.

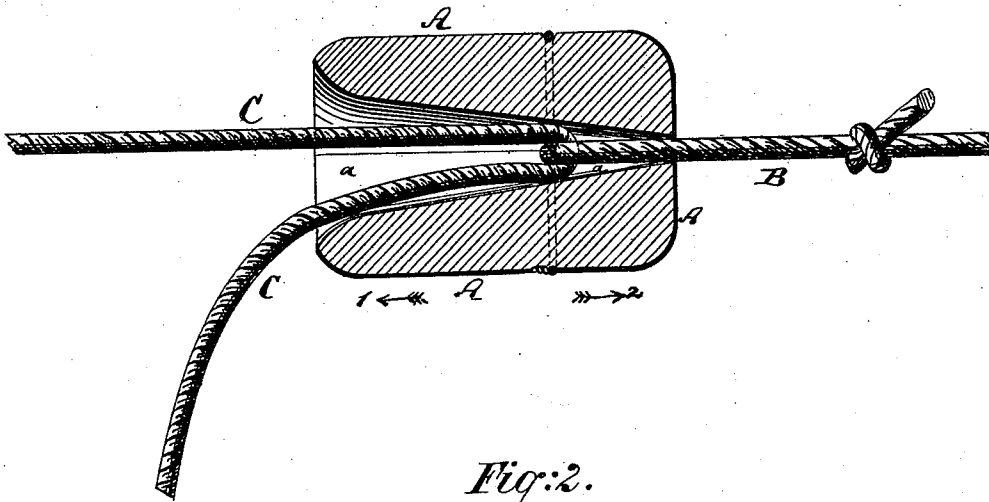
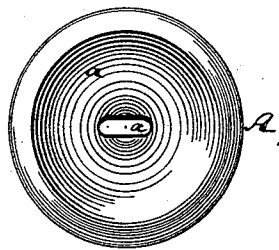


Fig:2.



Witnesses:

A. Moraga.
O. A. Weidner.

Inventor:

Franz Wagner
by his attorney
A. V. Briesen.

UNITED STATES PATENT OFFICE

FRANZ WAGNER, OF NEW YORK, N. Y., ASSIGNOR TO EDMUND F. BONAVENTURE, CHARLES RAETTIG, CARL THEODORE KURTZMANN, AND ANDREAS HAAS, OF SAME PLACE.

IMPROVEMENT IN LINE-FASTENERS.

Specification forming part of Letters Patent No. **171,890**, dated January 4, 1876; application filed December 7, 1875.

To all whom it may concern:

Be it known that I, FRANZ WAGNER, of New York city, in the county and State of New York, have invented a new and Improved Clothes-Line Adjuster, of which the following is a specification:

Figure 1 is a longitudinal central section of my improved clothes-line adjuster. Fig. 2 is an end view of the same.

Similar letters of reference indicate corresponding parts in all the figures.

This invention relates to a hollow clamp, which, when drawn over the loop of a rope or line, through which another rope or line is loosely drawn, will firmly clamp the two ropes or lines together, and prevent the one from sliding in the other. The said clamp is to be chiefly used on clothes-lines as an adjuster of their length, but is also applicable to the lines on board ship, on flag-staffs, and in fact to all manner and kind of ropes, lines, cords, strings, and even to chains.

The invention consists of a sliding sleeve or thimble, made with a tapering bore, which is usually flattened at its smaller end, as hereinafter more fully described.

In the accompanying drawing, the letter A represents my improved clothes-line adjuster, the same being made of wood, metal, or other suitable material, of cylindrical or other desirable external form, and of the appropriate size. It is provided with a central or nearly central bore or passage, *a*, of tapering form. At the smaller end this passage is preferably flattened or contracted, in the manner indicated in Fig. 2, to be as high about as one thickness, and as wide about as two thicknesses, of the rope or line to which the adjuster is to be applied.

B and C are two ropes, which are to be affected by the adjuster. The rope C is drawn loosely through a loop of the rope B, which loop passes through the small end of the opening in the adjuster, as shown. When the rope C is to be secured in any given position in the

loop B, the adjuster is pushed in the direction of the arrow 1, to clamp in its tapering aperture the doubled end of the rope C. Were it not for the flattening of the small end of the opening *a* the rope C could in most cases be drawn through the same opening through which the two thicknesses of the rope B are passed. But by flattening the opening in the manner stated the clamping of the bend of the rope C is insured, and the two lines are properly joined without knotting or other tedious process; yet, for thicker ropes, the flattening of the small end of the passage *a* may be dispensed with, as long as said small end is of a size to admit only two thicknesses of the rope, as a glance at Fig. 1 will show that three thicknesses would have to pass in order to draw the bend of the rope C entirely through the adjuster.

When it is desired to extend or shorten the rope C the adjuster is moved in the direction of the arrow 2, relieving the junction of the two ropes from pressure. The rope C can then be drawn farther through the loop of B in either direction, and reclamped in the desired position by pushing the adjuster back in the direction of the arrow 1.

For clothes-lines this invention will be particularly useful. In such case the loop B should be fastened to a hook or other stationary device, and the end of the main line C drawn loosely through said loop, and then clamped. The line may then be easily stretched or slackened in the manner described.

I claim as my invention—

The rope or line adjuster and clamp A, constructed with the tapering passage *a*, substantially as and for the purpose herein shown and described.

The above description of my invention signed by me this 3d day of December, 1875.
FRANZ WAGNER.

Witnesses:

F. V. BRIESEN,
ERNEST C. WEBB.