No. 882,408. PATENTED MAR. 17, 1908.

W. MULLIN.

CLOTHES LINE CLAMP.

APPLICATION FILED OCT. 1, 1907.

Fig. 1

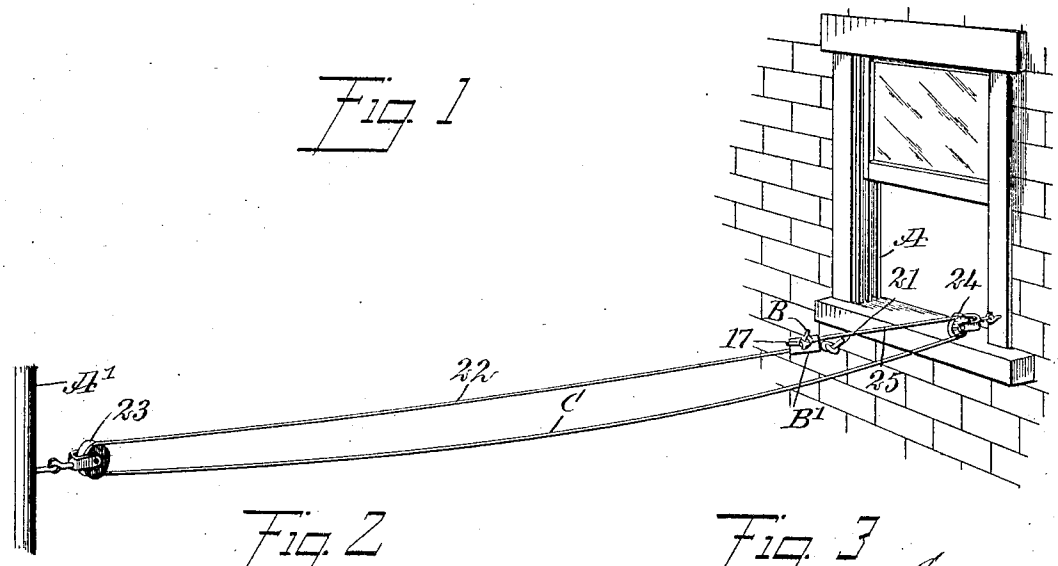


Fig. 2

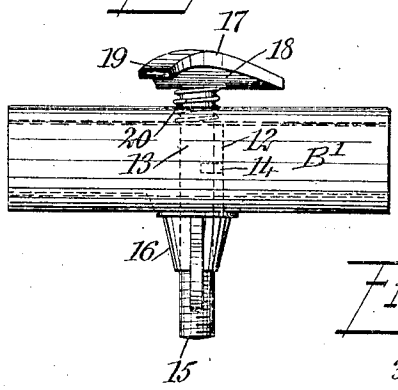


Fig. 3

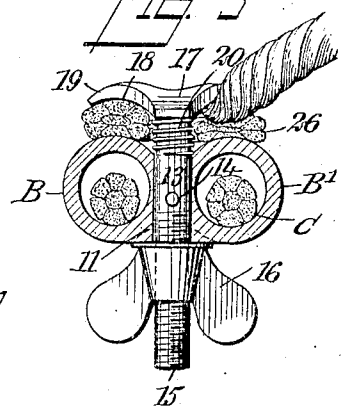


Fig. 4

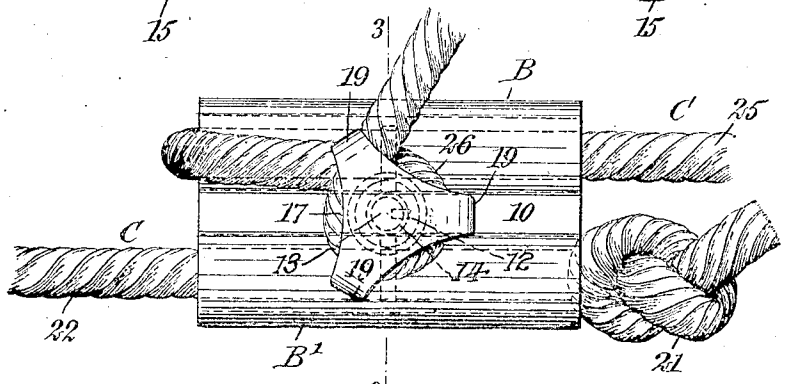
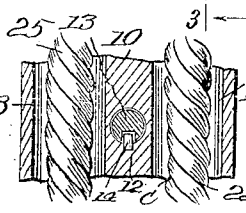


Fig. 5



WITNESSES

M. Gaertner.

INVENTOR

William Mullin

BY

ATTORNEYS

THE HORRIS PETERS CO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

WILLIAM MULLIN, OF NEW YORK, N. Y.

CLOTHES-LINE CLAMP.

No. 882,408. Specification of Letters Patent. Patented March 17, 1908.

Application filed October 1, 1907. Serial No. 395,399.

To all whom it may concern:

Be it known that I, WILLIAM MULLIN, a citizen of the United States, and a resident of the city of New York, borough of Manhattan, in the county and State of New York, have invented a new and useful Improvement in Clothes-Line Clamps, of which the following is a full, clear, and exact description.

The purpose of the invention is to provide a clothes line clamp of a very simple, durable, and economic type, so constructed that it can be conveniently manipulated and its application be readily understood.

It is a further purpose of the invention to so construct the device that when applied to the clothes line there will be little danger of its slipping from its set position, and wherein the line may be readily and expeditiously tightened up or loosened, as occasion may demand.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth and pointed out in the claims.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a perspective view illustrating the application of the device to a line; Fig. 2 is a side elevation of the improved clamp; Fig. 3 is a transverse section through the clamp, the section being also taken through that portion of the line carried through the clamp; Fig. 4 is a plan view of the improved clamp, illustrating the manner in which the line is applied thereto and Fig. 5 is a detail horizontal section through a central portion of the device.

The body of the clamp consists of two parallel barrels B and B′; these barrels are connected by a web 10, and the said web is so located that it is about central with respect to the top and the bottom of the barrels. These barrels B and B′ are open at both of their ends. The web 10 is provided with an opening 11, that extends through it from top to bottom, and in one side of the said opening 11 a key-way 12 is formed, as is illustrated in dotted lines in Fig. 2. This opening 11 is adapted to receive a bolt 13, and the bolt is adapted for sliding movement in said opening. The bolt 13 is provided with a pin 14, that extends in the key-way 12, and this pin 14 effectually prevents the bolt 13 from turning, but in no manner interferes with its sliding motion.

The bolt extends both beyond the top and the bottom of the barrels, or beyond opposite faces thereof, and one end of the bolt is provided with a thread 15, adapted to receive a nut 16, preferably a wing nut, and accompanying washer, while at the other end of the bolt 13, a head 17 is formed, and this head 17 is provided with a concaved or curved under face 18, as is shown in Figs. 2 and 3. The head 17 may be of any suitable or approved form, but preferably it is provided with wings 19, two or more in number, three wings being deemed sufficient. A spring 20, is coiled around the bolt 13 between the web 10 and the head 17, and this spring serves to force the head of the bolt outward when the nut 16 is loosened.

In Fig. 1, I have illustrated a portion of a building including a window frame A, and I have also illustrated a post A′ outside of the building in connection with which the line C is used. In the operation of the device one end of the line is passed through, for example, the barrel B′ and is then provided with a knot 21 in that stretch 22 of the line which leaves the barrel B′, and is then carried over a pulley 23, connected with the aforesaid post A′, then the line is carried over a second pulley 24, connected with the window frame A, as is shown in Fig. 1, and the return strand 25 of the line is passed through the other barrel B and is then carried to and wound around the bolt 13 between the under or concaved face of the head and the opposing faces of the barrel, as is shown in Figs. 3 and 4, the bolt 13 having previously been loosened. After the line has been carried around the bolt as described, the nut 16 is tightened until the head of the bolt firmly clamps the coil of line 26 between said head and the opposing surfaces of the barrels.

I desire it to be understood that I do not confine myself to the application of the clamp to the clothes line C, as it may be employed for analogous purposes.

Having thus described my invention, I claim as new and desire to secure by Letters Patent,—

1. A line clamp consisting of connected barrels open at their ends, a bolt mounted to slide between the barrels, having a gripping

head opposite one side of the said barrels and a nut upon the bolt located opposite the opposing sides of the barrels.

2. A clothes line clamp consisting of parallel connected barrels open at both ends, a bolt mounted to slide between the barrels having a head concaved upon its surface facing the barrels, a nut at the opposite end of the bolt, and means for preventing the bolt from turning.

3. In a clothes line clamp consisting of parallel connected barrels open at both ends, a tension-controlled bolt mounted to slide between the barrels, having a head concaved upon its inner face, a nut at the opposite end of the bolt, and means for preventing the bolt from turning.

4. A line clamp consisting of parallel barrels, a web connecting said barrels, located at a point between opposing faces, the said web being provided with an opening, and a key-way in the wall of the said opening, a bolt having sliding movement in the said opening in the web, a projection from the bolt adapted to enter the said key-way, a nut located at one end of the bolt, a head located at the opposite end of the bolt having a wing formation and also having its under face concaved, and a spring coiled around said bolt between its head and the opposing faces of the barrels.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WILLIAM MULLIN.

Witnesses:

SETH S. BARRETT,

ALFRED J. GRAFF.