A. J. T. WENDT-WRIEDT.

SPLICING AND SEIZING CLAMP.

APPLICATION FILED JAN. 28, 1919.

1,300,794.

Patented Apr. 15, 1919.

2 SHEETS—SHEET 1.

Fig. 1.

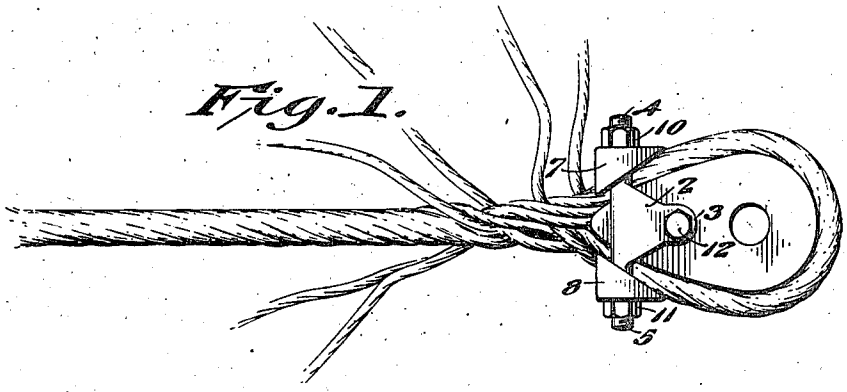


Fig. 2.

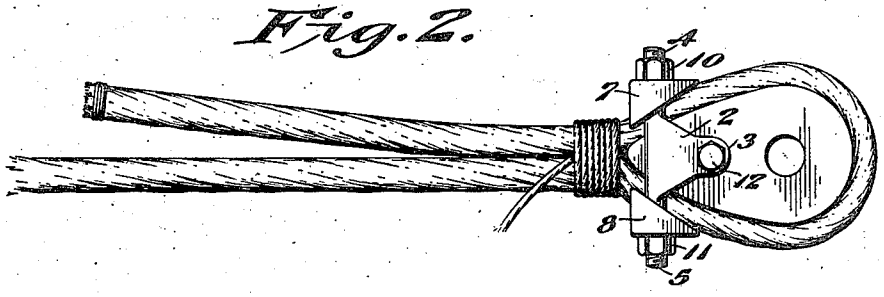
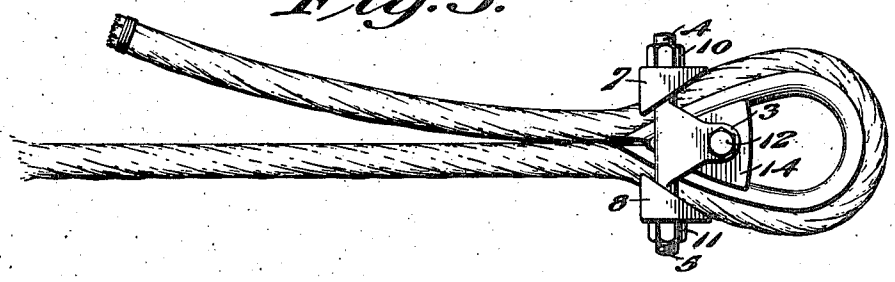


Fig. 3.



Inventor

Adolf J. T. Wendt-Wriedt

By Lloyd W. Patch

his Attorney

A. J. T. WENDT-WRIEDT.

SPLICING AND SEIZING CLAMP.

APPLICATION FILED JAN. 28, 1919.

1,300,794.

Patented Apr. 15, 1919.

2 SHEETS—SHEET 2.

Fig. 4.

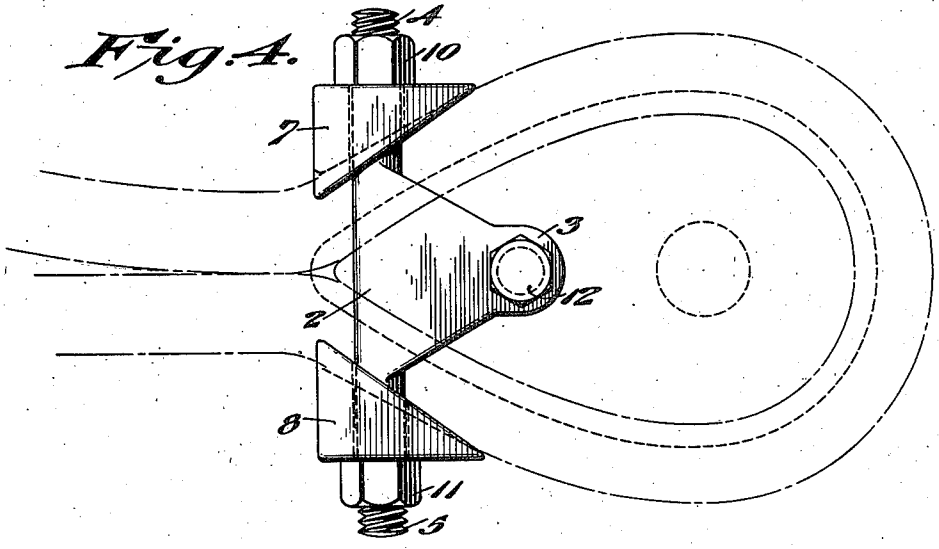


Fig. 5.

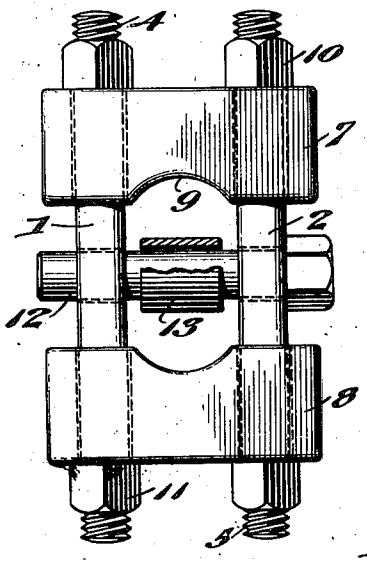


Fig. 6.

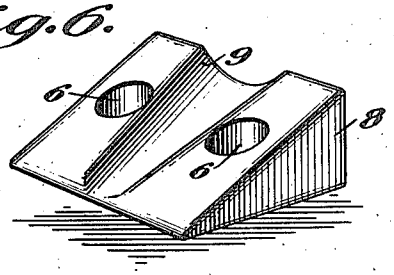
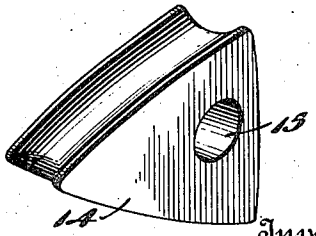


Fig. 7.



Inventor

Adolf J. T. Wendt-Wriedt

By Lloyd W. Patch

his Attorney

UNITED STATES PATENT OFFICE.

ADOLF J. T. WENDT-WRIEDT, OF ALEXANDRIA, VIRGINIA.

SPLICING AND SEIZING CLAMP.

1,300,794. Specification of Letters Patent. Patented Apr. 15, 1919.

Application filed January 28, 1919. Serial No. 273,674.

To all whom it may concern:

Be it known that I, ADOLF J. T. WENDT-WRIEDT, a subject of the Premier of Canada, residing at Alexandria, in the county of Alexandria and State of Virginia, have invented new and useful Improvements in Splicing and Seizing Clamps, of which the following is a specification.

This invention pertains to splicing and seizing clamps, and particularly to clamps adapted for use to hold a wire rope or steel cable while the same is being spliced or seized about a heart or thimble.

An object of my invention is to provide a clamp to be used by ship riggers engaged in splicing or seizing wire rope intended for shrouds or other rigging, about a heart or thimble, and which gives free access to that portion of the rope beyond the bight around the heart or thimble so that it may be spliced or seized to hold firmly.

A further object resides in so constructing the clamp structure that the clamping portions thereof hold the rope or cable firmly pressed in at the point of the heart or thimble so that the throat of the spliced or seized portion lies snugly against the point.

A still further object is to arrange, in conjunction with the main portions of the clamp, a block adapted for use when working a cable around a thimble, and which permits the clamp to hold with the same security as when applied in conjunction with a heart.

Yet another object lies in constructing the parts of the clamp to be adjustable so that a single clamp can be used upon two or more seizes of hearts or thimbles, and upon different seizes of rope or cable.

With these and other objects in view, which will be apparent from the specification, drawings, and claims, this invention includes certain novel features of construction and combinations of parts which will now be set forth.

In the drawings:

Figure 1 is a view in elevation showing my improved clamp as it will be applied in splicing a rope or cable around a heart.

Fig. 2 is a view similar to Fig. 1 illustrating the use where the cable is to be seized as in a turn-in-splice.

Fig. 3 discloses the use in holding a wire rope around a thimble.

Fig. 4 is an enlarged view in side elevation of my clamp.

Fig. 5 is a view at right angles to Fig. 4.

Fig. 6 is a perspective view showing one of the clamp blocks.

Fig. 7 is a view in perspective illustrating the filler block used in clamping about a thimble.

While clamps have been devised to be used upon a rope or cable when splicing or seizing the same, these for the most part have not proven entirely satisfactory in use due to the fact that they do not allow the greatest freedom in working upon the rope or cable, or because they are not readily portable, and it has therefore been a practice among riggers to resort to the use of stoppers or lashings to hold the bight of a rope or cable around a heart or thimble while the same is being spliced or seized in. However, this practice is wasteful as the stoppers or lashings are a total loss, and is unsatisfactory in the finished result due to the fact that the line used for stoppers or lashing stretches out during the splicing or seizing and leaves the heart or thimble loose within the turned in bight.

In my invention I propose to so construct and arrange the clamp that it will hold a wire rope or cable firmly pressed in at the point of a heart or thimble, and will also hold securely upon the heart or thimble, thus insuring a close fit at the throat of the splice or seizing and that the heart or thimble will be secure in the bight of the rope.

The side members 1 and 2, of my clamp are of substantially triangular form with bearing ears 3 at one of the angles and threaded extensions 4 and 5 at the remaining angles. These threaded extensions are alined, and are adapted to be received loosely through openings 6 of clamp blocks 7 and 8.

As best disclosed in Fig. 6, these clamp blocks are made wedge-shaped with the diagonal faces thereof sloped to correspond substantially to the usual angle of hearts and thimbles used in rigging, and on their sloping faces the blocks are grooved as at 9, between the openings 6. Also, it is preferable that all edges or corners of blocks 7 and 8 which might contact with the rope or cable be rounded to prevent cutting of the strands of the rope.

As has been stated openings 6 are of sufficient size to receive the threaded extensions 4 and 5 of side members 1 and 2, and hex-

agonal clamp nuts as shown at 10 and 11 are provided for these extensions 4 and 5, to be turned down to draw in blocks 7 and 8.

A headed pin 12 is made of a size to be fitted through the openings of bearing ears 3, substantially as shown in Figs. 4 and 5, and one or more filler sleeves 13 are provided to be fitted on pin 12 between side members 1 and 2.

As above outlined the structure is adapted for use in conjunction with a heart, after the manner shown in Figs. 1 and 2; however, where my improved clamp is employed in splicing or seizing around a thimble, which use is illustrated in Fig. 3, it is desirable that filler block 14 be used. This block is shaped to fit within the throat of a thimble and is grooved on two sides to hold thereagainst. An opening 15 is provided transversely through filler block 14.

In the use of my clamp, the parts will be assembled around a heart or thimble, with a rope thereon substantially in the relation shown in Figs. 4 and 5, the various adaptations in use being illustrated in Figs. 1, 2, and 3. In this fitting in conjunction with a heart, the wire rope is formed in a bight around the heart and a rigger's screw is applied to draw in the rope at the point of the heart, following which side members 1 and 2 are placed on opposite sides of the heart with the openings of the bearing ears thereof in line with one of the openings through the heart and with extensions 4 and 5 substantially in line with the point of the heart. Pin 12 is now placed through the openings of bearing ears 3 and the opening of the heart, filler sleeve 13 being used where the opening of the heart is of greater diameter than this pin. Clamp blocks 7 and 8 are then fitted upon extensions 4 and 5 of the two side members with grooves 9 thereof receiving the rope, and nuts 10 and 11 are turned down to tighten these clamp blocks against the rope. Pin 12 holds the clamp structure against slipping upon the work, and as the threaded extensions upon which blocks 7 and 8 are fitted line up with the point of the heart, these clamp blocks will draw in the rope and will make it possible to secure a tight splicing or a proper throat seizing at the point of the heart.

Where employed in connection with a thimble, the use of the clamp is substantially the same as hereinbefore set forth, filler block 14 however being fitted within the throat of the thimble before the clamp is applied, in which relation opening 15 receives pin 12 and the filler block acts to hold the clamp against displacement. This same structure may be used where an eye is to be spliced or seized in.

The clamp is adaptable for use in either of the employments as illustrated and described for small and up to the largest size of wire rope, and upon different sizes of hearts and thimbles, also upon bare or served rope. Adjustment within the limits of the threaded lengths of extensions 4 and 5 may be made to accommodate differences in sizes, and where extremities of size are to be accommodated large and small clamps can be provided.

While in the foregoing, I have described specific embodiments as to structure and use, and have mentioned only certain possible modifications, it will be appreciated that my purpose is to provide an adjustable clamp which can be used in splicing and seizing shrouds and other rigging or rope, where the same is turned in and is to be held around a heart or thimble, in view of which it is to be understood that in practice I do not limit myself to such specific details as herein set forth, but may resort to any practical modifications falling within the scope of the invention as defined in the appended claims.

I claim:

1. A splicing and seizing clamp including means to clamp a rope against the part to be held thereby, and means engaging with said part to hold said clamping means against displacement.

2. A splicing and seizing clamp adapted to retain a rope around a heart being secured therein including with clamping means engageable with said rope to hold the same firmly against the heart, means engageable with said heart to retain said clamping means in a proper clamping position.

3. A splicing and seizing clamp adapted to retain the bight of a rope around a heart being secured therein including a pair of side members each having a bearing ear and each provided with threaded extensions, wedge-shaped clamp blocks having openings to receive said threaded extensions, clamp nuts to be turned onto the threaded extensions to draw in said clamp blocks, and a pin to be fitted through the openings of the bearing ears and in engagement with the heart.

4. A splicing and seizing clamp adapted to retain the bight of a rope around a heart being secured therein including a pair of side members each having a bearing ear and each provided with threaded extensions, wedge-shaped clamp blocks having openings to receive said threaded extensions, clamp nuts to be turned onto the threaded extensions to draw in said clamp blocks, a pin to be fitted through the openings of the bearing ears and in engagement with the heart, and a filler sleeve received around said pin to fit the same to said heart.

5. A splicing and seizing clamp adapted to retain a rope around a thimble being secured therein including with clamping

means engageable with said rope to hold the same firmly against the thimble, a filler block to be fitted to the opening of said thimble, and means engageable with said filler block to retain said clamping means in a proper clamping position.

6. A splicing and seizing clamp adapted to retain the bight of a rope around a thimble being secured therein including a pair of side members each having a bearing ear and each provided with threaded extensions, having openings to receive said threaded extensions, clamp nuts to be turned onto the threaded extensions to draw in said clamp blocks, a filler block shaped to fit within the thimble at the throat end and provided with a transverse opening, and a pin to be fitted through the openings of the bearing ears and said filler block.

In testimony whereof, I affix my signature.

ADOLF J. T. WENDT-WRIEDT.