

Sept. 11, 1928.

1,684,136

J. A. LYNCH

TIE LUG

Filed Jan. 9, 1928

Fig. 1.

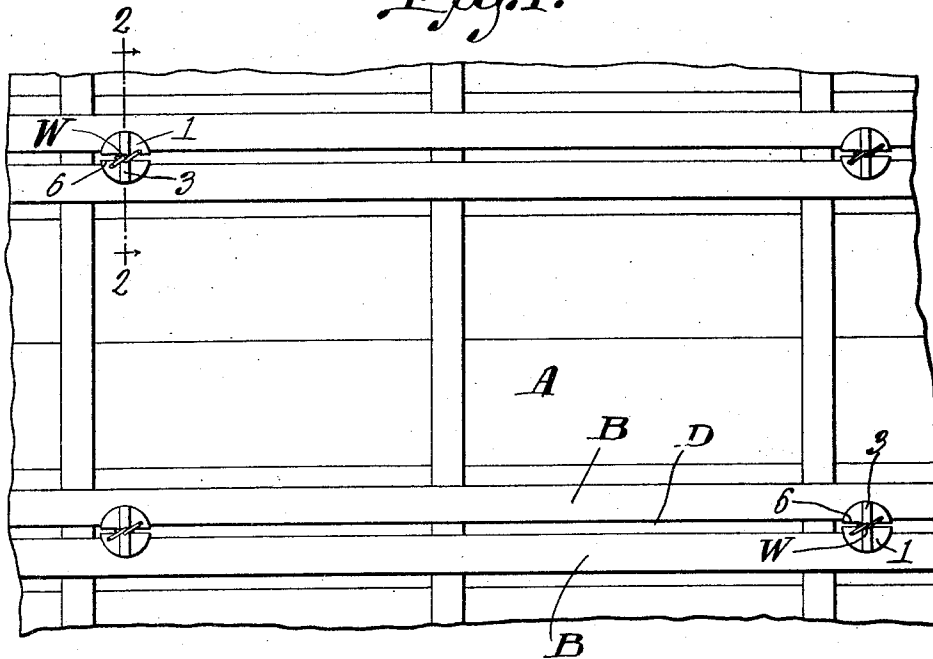


Fig. 2.

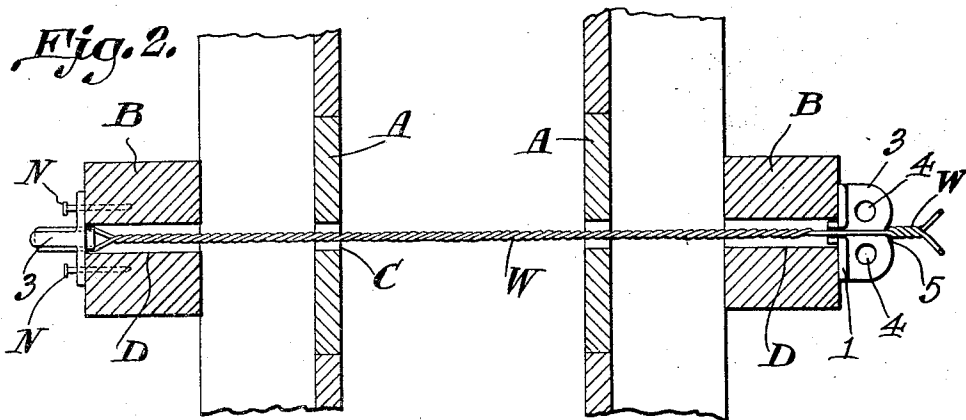


Fig. 3.

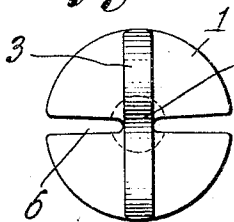
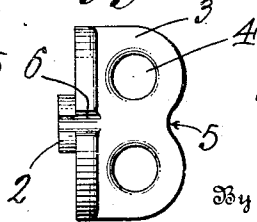


Fig. 4.



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Patented Sept. 11, 1928.

1,684,136

UNITED STATES PATENT OFFICE.

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TIE LUG.

Application filed January 9, 1928. Serial No. 245,437.

This invention relates to tie lugs and is designed primarily for use in connection with concrete forms.

In assembling large concrete forms it has been the practice to connect opposed portions thereof by means of cross wires. Various means have been employed for tightening these wires so as to hold opposed portions of the form at proper distances apart but all of these means have been more or less complicated, and some of them have required the workmen to operate inside of the space within the form which, usually, is impracticable because of the small size of the space and also because of the reinforcing metal located in the space.

It is an object of the present invention to provide simple and effective tightening means located outside of the form where it can be actuated readily to take up slack in the tie wires and subsequently securely held.

Another object is to provide a tie lug which is cheap to manufacture, easily handled and can not only be used to advantage in connecting the opposed side portions of a form, but can also be employed in supporting forms.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed may be made within the scope of what is claimed, without departing from the spirit of the invention.

In the accompanying drawing the preferred form of the invention has been shown.

In said drawings,

Figure 1 is a side elevation of a portion of a form showing the several ties applied thereto.

Figure 2 is a section on line 2—2, Figure 1, said section being on an enlarged scale.

Figure 3 is an enlarged face view of one of the tie lugs.

Figure 4 is a side elevation thereof.

Referring to the figures by characters of reference 1 designates a disk-like base provided at the center of one side with a boss 2 while extending diametrically across the

other side is a wing 3. This wing has spaced openings 4 extending therethrough and a depression 5 is formed in the edge of the wing at a point between the openings 60 along the axis of the disk.

Disposed at right angles to the wing 3 are oppositely extending radially disposed slots 6 extending from the periphery of the disk inwardly into the peripheral portion of the boss 2. 65

In using the tie lug for holding together opposed portions of a concrete form, said opposed portions, indicated at A are set up at the proper distance apart, there being closely arranged parallel bracing members B secured to the outer sides of the members A. Openings C are formed in the members A in line with the space D between the timbers B and a tie wire W is looped about one of the lugs 75 and its ends are inserted transversely through the form. The looped end of the wire will seat in the depression 5 and within the opposed slots 6 in one of the tie lugs while the terminal portions of the wire 80 will be seated within the opposed slots of the other lug and are twisted together so as to be supported within the depression 5 within the last named lug. With the parts thus arranged one or both of the lugs are 85 rotated by means of a suitable tool inserted into the openings 4, it being understood that the boss 2 will hold the lug properly positioned on the timbers B. This rotation of the lug is continued until the wire W is 90 twisted sufficiently to take up all slack therein after which the lugs are held against retrograde movement by driving nails through the slots 1 into the timbers B as shown at N. 95

What is claimed is:

1. A tie lug including a base, a centering boss extending from one face thereof, an apertured wing extending diametrically across the opposite face thereof, there being 100 opposed radial slots in the base at opposite sides of the wing.

2. A tie lug including a base having opposed slots extending therein from its periphery, a centering boss extending from one face of the base between the slots and a diametrically disposed apertured wing on the other face of the base between the slots, said wing having a central depression constituting a seat for a twisted wire or the 110 like.

3. A tie for concrete forms and the like

including a base having opposed slots extending thereinto from the periphery thereof, a centering boss between the slots on one face of the base, an apertured wing extending from the other face of the base between the slots, and a wire looped about the wing and having opposed portions seated in the slots, each slot constituting fastener receiving means.

4. The combination with a form member having an opening therein, of a tie wire extending through the opening, a tie lug having a base provided with slots extending thereinto from the periphery thereof, a wing extending from the base between the slots, said wire being looped over the wing and having opposed portions seated in the slots, there being an aperture in the wing for the reception of a turning tool, and fastening means extending through one of the slots into the form member for holding the lug against rotation.

5. The combination with a form member having an opening therein, of a looped wire

extending through the opening and constituting a tie, of a tie lug including a slotted base, an outstanding wing on one face of the base between the slots straddled by the looped end of the tie wire, said wing having a depression constituting a seat for said looped end, a centering boss extending from the other face of the base and positioned within the loop of the wire, and fastening means engaging the base and the form member for holding the base against rotation.

6. A tie lug including a base having slots extending thereinto from its head, a wing extending from one face of the base between the slots for engagement by a turning tool, said wing having a seat for a looped tie wire extending through the slots, a boss extending from the other face of the base constituting centering means.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature.

JAMES A. LYNCH.