Dec. 2, 1930. E. L. WILSON 1,783,456

CORNER CLAMP

Filed July 14, 1928

Fig. 1.

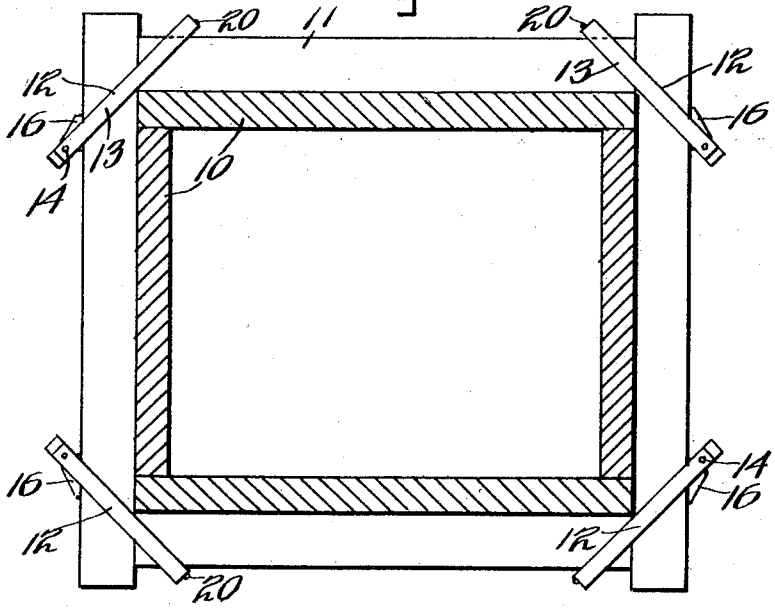


Fig. 2.

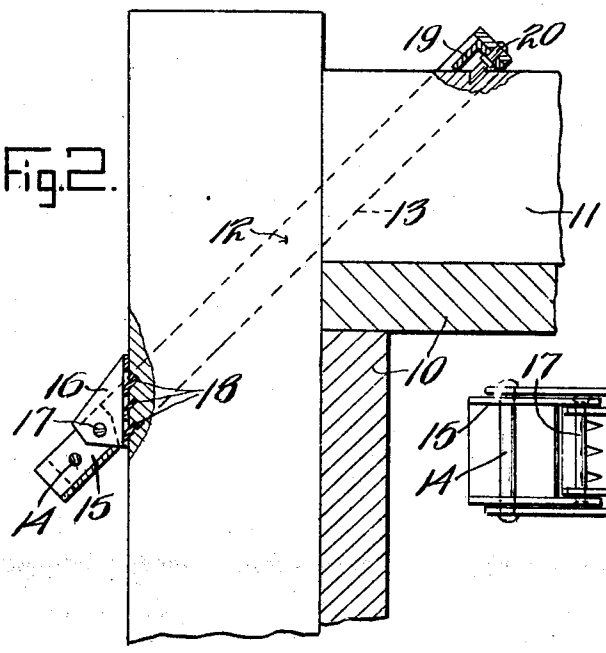


Fig. 3.

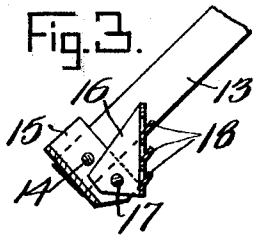
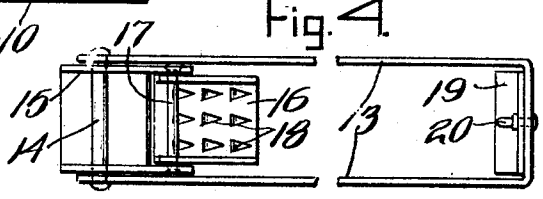


Fig. 4.



Inventor

Elmer L. Wilson

By E. L. Bradford

Attorney

Patented Dec. 2, 1930

1,783,456

UNITED STATES PATENT OFFICE

ELMER L. WILSON, OF INDIANAPOLIS, INDIANA

CORNER CLAMP

Application filed July 14, 1928. Serial No. 292,785.

My invention relates to corner clamps designed primarily for clamping wooden supporting members around concrete column forms at the corners. It is an object of the invention to provide a clamp of simple construction which operates diagonally across the corners, which can be used to tightly bind the members together, and which may be operated by a conventional jimmy bar or other lever, all as will be hereinafter more specifically described and claimed.

Referring to the accompanying drawings, which are made a part hereof and on which similar reference characters indicate similar parts,

Figure 1 is a section of a column mold illustrating one application of my invention,

Figure 2 is a similar enlarged fragmentary view with parts broken away,

Figure 3, a fragmentary detail with the device in a different position, and

Figure 4, a fragmentary front elevation of my improved clamp.

In the drawings reference character 10 indicates side members of a column form adapted to receive a plastic composition, such as concrete or the like for forming a post or column. The side members are held together and re-enforced by re-enforcing bars or members 11, which are held together at the corners by diagonally disposed corner clamps 12.

Each corner clamp 12 comprises a substantially U-shaped member 13 of strap iron or the like, which has its ends connected by a bolt 14 upon which is pivoted a supporting or operating member 15 which carries a shoe 16 pivotally connected thereto by means of a bolt 17. Such shoe is provided with teeth 18 adapted to bite into and engage the respective re-enforcing members. The opposite end or mid-portion of the U-shaped member 13 is provided with a cross piece 19 of angle iron or the like, which is secured in position by means of a pin 20, the pin and angle iron being adapted to bite into the wood and prevent the clamp from slipping.

The operation of my device is very simple. The U-shaped clamp 13 is placed in the position shown in Fig. 1 and the flat face of the shoe 16 is placed in parallelism with the surface of the wood supporting member upon which it rests so that the teeth are in position to pierce the same, whereupon a small bar or lever is inserted in the supporting member 15 between the pivot 14 and the bottom of the supporting member and the bar rotated about the pivot 14 to cause the teeth 18 of the shoe and the pin and angle member 19 to bite into the respective supporting members and bind them closely and tightly in fixed relation.

It will be obvious to those skilled in the art that various changes may be made in my device without departing from the spirit of the invention, and I, therefore, do not limit myself to what is shown in the drawings and described in the specification, but only as set forth in the appended claims.

Having thus fully described my said invention, what I claim as new and desire to secure by Letters Patent, is:

1. A corner clamp adapted to be applied diagonally across the intersecting extremities of re-enforcing members of a concrete column form comprising a U-shaped clamp, a pivot connecting the extremities of the U-shaped clamp, an operating member rotatably mounted on said pivot and adapted to receive a lever for rotating the operating member, and a shoe pivotally carried by the operating member and having impaling teeth for piercing the member upon which it is supported for binding the parts tightly together, substantially as set forth.

2. A corner clamp comprising an elongated clamp body having spaced side members, impaling means fixed at one end of the body, a rotatably mounted operating member at the other end of the body shaped to receive an operating lever, and a shoe pivotally supported on the operating member and having piercing means on its inner face adapted to engage the member to which it is applied for preventing movement relative thereto, substantially as set forth.

3. A corner clamp comprising an elongated clamp body having spaced side members, a pin and an angle iron secured at one end being adapted to bite into the member to which

it is applied to prevent slipping and a rotatable member pivoted at the other end, a movable impaling member mounted on said rotatable member, a plurality of teeth on the inner face of the movable impaling member adapted to be firmly fixed in the member to which it is applied, the rotatable member having a slot adapted to receive a lever to force said teeth into the face of the member to which it is applied, substantially as set forth.

In witness whereof, I have hereunto set my hand at Indianapolis, Indiana, this twelfth day of July, A. D. nineteen hundred and twenty-eight.

ELMER L. WILSON.