Oct. 31, 1950 M. A. BURSON 2,528,031

CONCRETE FORM CLAMP

Filed April 29, 1949

Fig. 1.

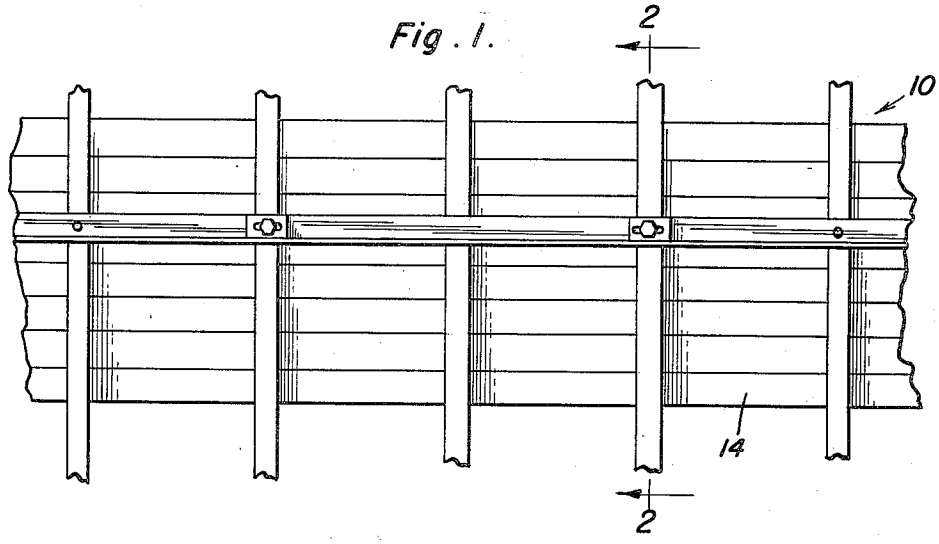


Fig. 2.

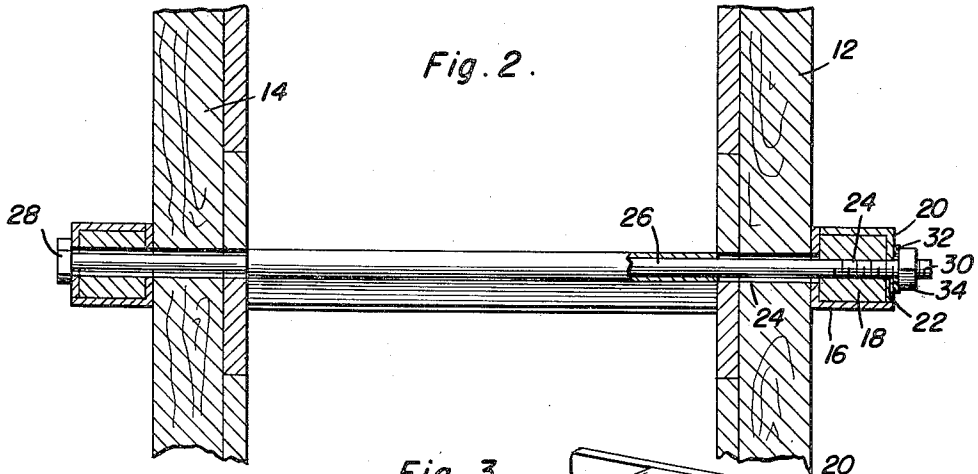


Fig. 3.

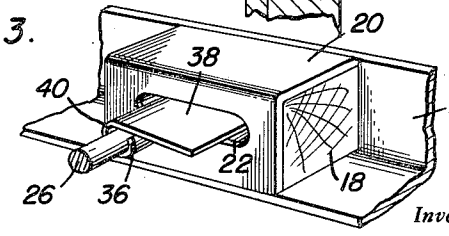
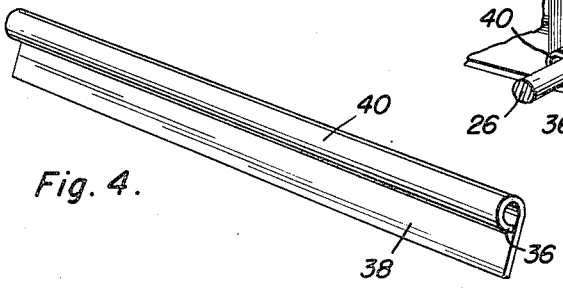


Fig. 4.



Inventor

Manfred A. Burson

By Clarence A. O'Brien and Harvey B. Jacobson

Attorneys

Patented Oct. 31, 1950 2,528,031

UNITED STATES PATENT OFFICE

2,528,031

CONCRETE FORM CLAMP

Manfred A. Burson, Hermiston, Oreg.

Application April 29, 1949, Serial No. 90,430

2 Claims. (Cl. 25—131)

1

This invention relates to new and unique improvements in concrete forms and the primary object of the present invention is to provide a novel and improved clamp for joining and spacing the side walls of a concrete form.

Another important object of the present invention is to provide a concrete form clamp including a spacer member holding the side walls of a concrete form spaced at a predetermined distance and which spacer adapted to be embedded in the formed article to reinforce the same.

A further object of the present invention is to provide a concrete form clamp that is quickly and readily applied in position between the side walls of a form in a convenient manner.

A still further aim of the present invention is to provide a form clamp that is simple and practical in construction, strong and reliable in use, small and compact in structure, extremely inexpensive to manufacture, and otherwise well adapted for the purposes for which the same is intended.

Other objects and advantages reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a fragmentary elevational view of a concrete form and showing the present invention applied thereto;

Figure 2 is an enlarged vertical sectional view taken substantially on the plane of section line 2—2 of Figure 1;

Figure 3 is a fragmentary perspective view showing the manner in which the spacer is inserted into position; and,

Figure 4 is a perspective view of the spacer used in conjunction with the present invention.

Referring now to the drawings in detail, wherein for the purpose of illustration, there is disclosed a preferred embodiment of the present invention, the numeral 10 represents a concrete form generally including a pair of side walls or members 12 and 14.

Suitably secured to the outer surfaces of the side walls 12 and 14 is a plurality of horizontally disposed angle iron members 16 that support a plurality of longitudinally spaced blocks 18. Further, angle iron sections 20 fixed to the member 16 embrace the blocks 18 and are formed with elongated horizontal slots 22 that oppose similar slots or openings 24 provided in the blocks 18, members 16, and walls 12 and 14.

2

The numeral 26 represents an elongated connecting member or bolt that extends between the walls 12 and 14 and through the slots 22 and 24. The head 28 of the bolt bears against the section 20 adjacent the wall 14 and the threaded end 30 of the bolt 26, receives a washer 32 and nut 34 that bear against the section 20 adjacent the wall 12.

One longitudinal edge 36 of an elongated metallic strip 38 is bent to form a sleeve 40 that embraces the bolt 26 and the end of the strip 38 abuts the inner surfaces of the walls 12 and 14.

In practical use of the present invention a plurality of the spacers or strips 38 and the bolts 26 are employed in order to return the walls 12 and 14 spaced parallel to each other.

When the form is assembled, the strips 38 are inserted through the slots 22 and 24 until the strip is disposed between the walls 12 and 14 whereupon the weight of the strips will cause the same to rotate to a substantially vertical position and a positon perpendicular to the slots 22 and 24 thereby backing the strips between the side walls.

After the wall has been poured, the bolts 26 are removed and the strips 38 remain in the wall to reinforce the same.

In view of the foregoing description taken in conjunction with the accompanying drawings it is believed that a clear understanding of the device will be quite apparent to those skilled in this art. A more detailed description is accordingly deemed unnecessary.

It is to be understood, however, that even though there is herein shown and described a preferred embodiment of the invention the same is susceptible to certain changes fully comprehended by the spirit of the invention as herein described and the scope of the appended claims.

Having described the invention, what is claimed as new is:

1. In combination with a concrete form including a pair of spaced side walls, a form clamp comprising a pair of blocks secured to the walls and having elongated substantially horizontal slots therein, said walls having substantially horizontal openings in registry with said slots, an elongated bolt extending through the slots and the openings, and means carried by the bolts spacing the walls apart, said means comprising a reinforcing strip having a sleeve portion embracing the bolt, said slots and said openings being sufficiently large as to receive said strip during the insertion of the same between the walls, said strip

being disposed perpendicular to the slots and the openings when positioned between the walls.

2. In combination with a concrete form including a pair of spaced side walls having a pair of openings therein, at least one of said openings being horizontal, a form clamp comprising an elongated bolt extending through the openings, a reinforcing strip having a sleeve portion embracing the bolt, said horizontal opening being sufficiently large as to receive said strip during the insertion of the strip between the walls, said strip being disposed perpendicular to the horizontal opening when positioned between the walls.

MANFRED A. BURSON.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
1,799,908	Graziano	Oct. 28, 1930
2,160,489	Spies	May 30, 1939
2,217,278	Kanter	Oct. 8, 1940