June 28, 1955 R. BLISS 2,711,573

CLAMP FOR BUILDING FORMS

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Fig. 1

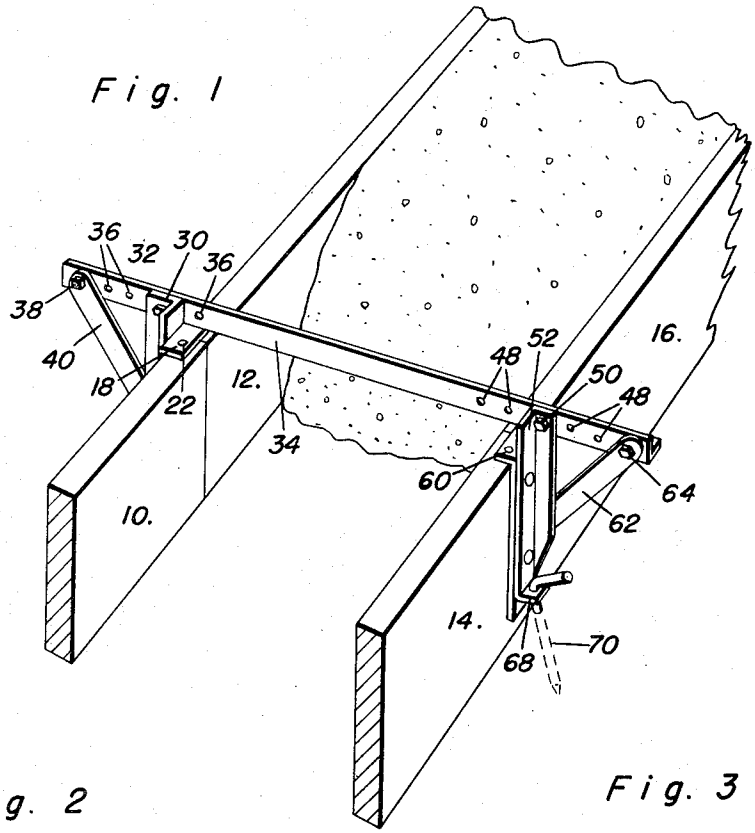


Fig. 2

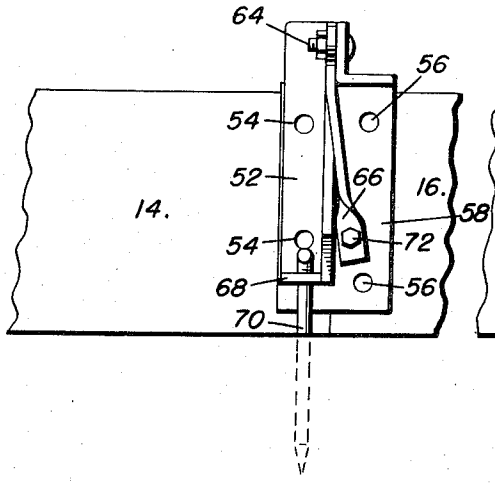
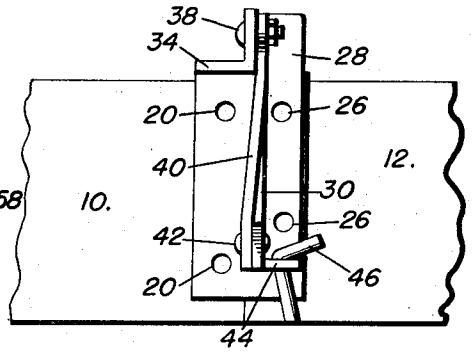


Fig. 3



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CLAMP FOR BUILDING FORMS

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2 Claims. (Cl. 25—131)

This invention relates to the art of casting and molding concrete structures and more particularly to a clamp for use in securing various sections of building forms.

In casting concrete structures such as footings, forms must be erected in spaced parallel relationship. Heretobefore it has been necessary to shore these forms using a considerable amount of lumber. It is therefore the primary object of this invention to provide means for securing adjacent sections of spaced parallel forms together in a manner which will insure the ease of casting without the necessity of using expensive lumber.

When shoring footing forms or like molds with lumber, a great expenditure of time and effort is necessary to insure the proper alignment and the perpendicularity of the forms. It is therefore another object of the invention to provide means associated with the clamp for leveling the structure.

Still further objects of the invention reside in the provision of a clamp for building forms that is strong, durable, capable of being used and reused, simple in construction, highly efficient in use, and capable of being manufactured at a minimum of expense.

These together with the various ancillary objects of the invention which will become apparent as the following description proceeds, are attained by this clamp for building forms, a preferred embodiment of which has been illustrated in the accompanying drawings, by way of example only, wherein:

Figure 1 is a perspective view showing the clamp comprising the present invention in operative installation and associated with spaced parallel sections of building forms;

Figure 2 is side elevational view of one side of the clamp arrangement; and,

Figure 3 is another side elevational view illustrating the other side of the clamp as associated with the building forms.

With continuing reference to the accompanying drawings wherein like reference numerals designate similar parts throughout the various views, reference numerals **10** and **12** designate a pair of adjacent sections of forms and reference numerals **14** and **16** designate another pair of adjacent sections which are spaced from and parallel to the forms **10** and **12**.

A substantially L-shaped member **18** is provided and is secured in an inverted position in an overlapping relationship to the sections **10** and **12**. Apertures **20** are formed in the vertical side walls of the member **18** and other apertures **22** are provided in the top flange of the member **18**. Welded or otherwise attached to the member **18** is an angle member which is provided with a plate **28** parallel to the vertical sides of the member **18**. Apertures **26** are formed in the plate **28** and are adapted to align with certain of the apertures **20** in the member **18**. The angle member has a flange portion **30** extending outwardly from the plate **28** and at right angles thereto. Bolted to the flange **30** by means of fasteners **32** is a transverse bar **34** of suitable length which is provided with a series of apertures **36** therethrough for selective

alignment with an aperture in the flange **30** through which the bolt fastener **32** extends. The transverse member **34** is constructed of angle iron for a purpose to be henceforth explained. Extending through one of the apertures **36** is another bolt fastener **38** which secures a diagonal brace **40** to the transverse member **34**. The other end of the diagonal brace **40** is riveted or otherwise pivotally secured as at **42** to the flange **30**. Secured to the plate **28** and extending outwardly therefrom is a loop or eye **44** which is adapted to receive a pointed L-shaped rod **46** which is adapted to extend at an angle relative to the form sections **10** and **12** and into the ground so as to secure the forms to the ground.

The transverse member **34** extends between the form sections **10** and **12** and **14** and **16** and beyond. Other apertures **48** extend through the transverse member **34** and a bolt fastener **50** secures an angle member **52** to the transverse member **34**. The angle member **52** is provided with apertures **54** therethrough which are adapted to align with certain of the apertures **56** formed in an inverted L-shaped member **58** which extends between the form sections **14** and **16**. Other apertures **60** are formed in the top of the inverted L-shaped member **58**. A diagonal release brace **62** is secured by means of bolt fasteners **64** through one of the apertures **48** to the transverse member **34**. The other end of the brace **62** is provided with a portion **66** which is twisted to conform with the plane of the vertical side portions of the L-shaped member **58**. An aperture extends through the portion **66** and is adapted to align with a suitable aperture in the member **58**. A loop or eye **68** is formed at the lower portions of the angle member **52** and has an aperture therethrough for reception of a pointed L-shaped rod **70**. The rod **70** is adapted to engage the ground.

In erecting a form for casting concrete in accordance with the concept of this invention, the form sections **10** and **12** are abutted together and using the L-shaped members **18** together with suitable nails, preferably of approximately eight penny size, the angle member and the L-shaped member **18** may be rigidly secured to the sections **10** and **12** securing the sections **10** and **12** together. The rod **46** may then be driven into the earth. Then, the L-shaped member **58** and the angle member **52** may be readily secured to the sections **14** and **16** using similar nails. An additional nail as at **72** extends through the release brace **62** and through the L-shaped member **58**. By placing a level on the platform formed by the angle iron configuration of the transverse member **34**, the forms may then be readily moved about until the sides thereof are aligned. The rod **70** is, of course, driven into the ground.

Since from the foregoing, the construction and advantages of this clamp for building forms are readily apparent, further description is believed to be unnecessary.

However, since numerous modifications will readily occur to those skilled in the art after a consideration of the foregoing specification and accompanying drawings, it is not intended to limit the invention to the precise embodiment shown and described, but all suitable modifications and equivalents may be readily resorted to that fall within the scope of the appended claims.

What is claimed as new is as follows:

1. A clamp for use in securing together adjacent sections of spaced parallel forms used in casting concrete comprising substantially inverted L-shaped members having horizontal portions, said members being secured to and extending between said adjacent sections with said horizontal portions overlying the upper edges of said adjacent sections, angle members secured against said L-shaped members, a transverse leveling member extending between and beyond said angle members carried by said angle members, a brace member secured to said

transverse member and one of said angle members, and a release brace secured to said transverse member and secured against one of said L-shaped members, said release brace being secured against said L-shaped member by a fastener extending through said L-shaped member and through said release brace, flanges secured to said angle members, and ground engaging fasteners extending through said flanges.

2. A clamp for use in securing together adjacent sections of spaced parallel forms used in casting concrete comprising substantially inverted L-shaped members having horizontal portions, said members being secured to and extending between said adjacent sections with said horizontal portions overlying the upper edges of said adjacent sections, angle members secured against said L-shaped members, a transverse leveling member extending between and beyond said angle members carried by said angle members, a brace member secured to said transverse member and one of said angle members, and a release brace secured to said transverse member and secured against one of said L-shaped members, said release brace being secured against said L-shaped member by a fastener extending through said L-shaped member and through said release brace, flanges secured to said angle members, ground engaging fasteners extending through said flanges, and means associated with said transverse member for adjusting said transverse member relative to said angle members.

References Cited in the file of this patent

UNITED STATES PATENTS

955,800	Hotchkiss	Apr. 19, 1910
1,965,319	Romero	July 3, 1934
2,518,847	Youngman	Aug. 15, 1950