May 12, 1925. 1,537,889

C. A. SECKINGER

COLUMN FORM CLAMP

Filed Aug. 9, 1924

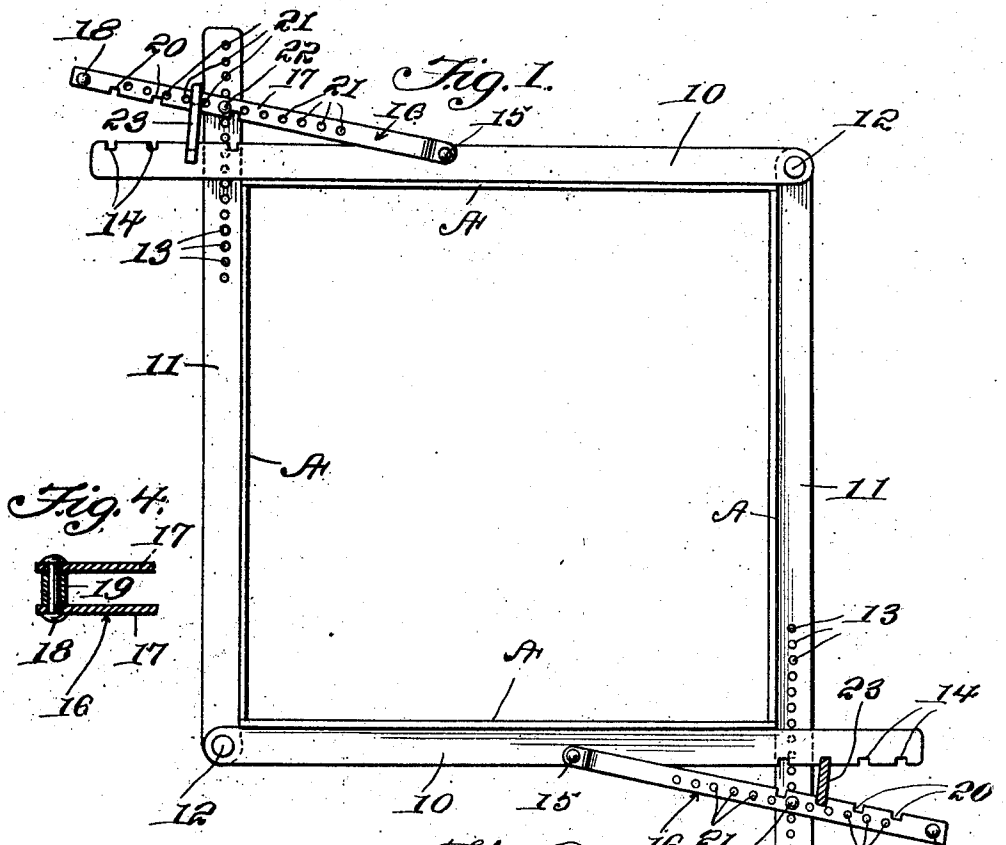


Fig. 1.

Fig. 2.

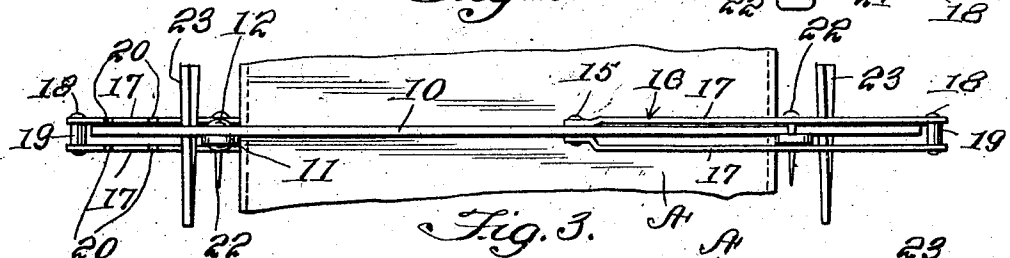


Fig. 3.

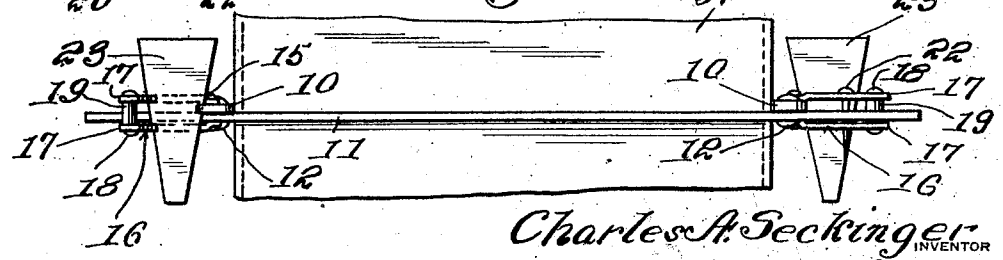


Fig. 4.

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UNITED STATES PATENT OFFICE.

CHARLES A. SECKINGER, OF KANSAS CITY, KANSAS.

COLUMN-FORM CLAMP.

Application filed August 9, 1924. Serial No. 731,196.

To all whom it may concern:

Be it known that I, CHARLES A. SECKINGER, a citizen of the United States, residing at Kansas City, in the county of Wyandotte and State of Kansas, have invented new and useful Improvements in Column-Form Clamps, of which the following is a specification.

This invention relates to forms used in the making of concrete or cement columns, piers and the like, and has for its object the provision of a novel clamp for holding the form rigid and in proper position so that bulging or buckling will be prevented, the clamp being moreover adjustable for use upon forms of different sizes and of somewhat different shapes.

An important object is the provision of a clamping device of this character embodying angularly adjustable abutment arms with which cooperate wedge members provided for the purpose of actually forcing the parts to proper position and maintaining them rigid under even the most adverse conditions.

An additional object is the provision of a device of this character which will be simple and inexpensive in manufacture, easy to adjust and apply, positive in action, efficient and durable in service and a general improvement in the art.

With the above and other objects and advantages in view, the invention consists in the details of construction to be hereinafter more fully described and claimed, and illustrated in the accompanying drawings, wherein:—

Figure 1 is a cross sectional view taken through a column form and illustrating a plan view of my device.

Figure 2 is a side elevation, and

Figure 3 is an elevation at right angles to Figure 2.

Figure 4 is a section of the abutment arm connection.

Referring more particularly to the drawings, the letter A represents the four boards or side members which are arranged in edge to edge relation as shown to define a rectangular form into which the concrete or cement is poured in the making of a pillar, column, pier or the like. It is of course obvious that some means must be provided for holding these side members A in position and to prevent buckling or bulging thereof.

In carrying out my invention I provide a clamping device which comprises two sets of bars 10 and 11 pivotally connected as shown as 12. These bars are arranged against the form with their pivot points 12, diagonally opposite as clearly indicated in Figure 1. The bar 11 of each pair has its end portion formed with a series of holes 13 while the other is formed with a series of inclined notches 14 located at the outer edge.

Pivoted at 15 upon each bar 10 is an elongated abutment member 16 which is formed as a pair of strips 17 located at opposite sides of the bar 10 and held in proper spaced relation by a bolt or rivet 18 passing therethrough and through a sleeve 19. The inner edges of these abutment arms 16 are formed with notches 20 opposite the notches 14 above described. The abutment arms also are provided with holes 21 adapted to register with the holes 13.

In applying the clamping device, the bars are arranged upon the form A as shown and in such a manner as to embracingly engage against the sides thereof. The abutment arms 16 are swung to extend at an acute angle outwardly of the bars 10, and nails, pins or the like indicated at 22 are inserted through registering ones of the holes 13 and 21 so as to hold these abutment arms stationary. Wedges 23 are then inserted through any desired opposite ones of the notches 14 and 20 and are driven in with any force necessary to urge the bars into firm engagement with the sides A of the form, whereby to hold the form absolutely rigid in its setup position. The series of holes and notches in all of the elements will obviously provide for a wide range of adjustment to enable the device to be used on large or small forms.

While I have shown and described the preferred embodiment of the invention, it is to be understood that I reserve the right to make such changes in the form, construction and arrangement of parts as will not depart from the spirit of the invention or the scope of the subjoined claims.

Having thus described the invention, I claim:

1. A form clamp comprising pairs of bars, the bars of each pair being pivotally connected and the pairs being disposable upon a form with said pivot points at diagonally opposite edges of the form, the free end of one bar of each pair being formed with a series of holes, the outer edge of the other

bar of each pair being formed with notches, and abutment arms pivotally mounted upon the other bars of each pair and having their edges notched opposite said first named notches, said abutment arms being formed with a series of holes adapted to be selectively registered with said first named holes for the passage of a securing element, and wedges disposable between opposed ones of said notches.

2. A form clamp comprising two pairs of bars, the bars of each pair being pivotally connected and the bars being disposable upon a form with said pivot points at diagonally opposite corners of the form, the free end of one bar of each pair being formed with a series of holes and the other bar of each pair having its outer edge formed with notches, abutment arms pivotally mounted upon the notched bars and formed with a series of holes adapted to be brought selectively into registration with the holes of said first named series and being further formed with notches opposite the notches in the second named bars, securing members passable through selected registering holes, and wedges adapted for disposition within opposed ones of said notches.

3. A form clamp comprising pair of bars, the bars of each pair being pivotally connected and the pairs being disposable upon a form with the pivot point at diagonally opposite edges of the form, means for adjusting the arms, abutment arms pivotally mounted upon one bar of each pair, and wedge members disposable between the abutment arms and said pairs of arms.

In testimony whereof I affix my signature.

CHARLES A. SECKINGER.