Dec. 12, 1950 C. I. WILLIAMS 2,534,154

ANCHOR LOCK FORM ALIGNER

Filed Jan. 22, 1948

Fig. 1.

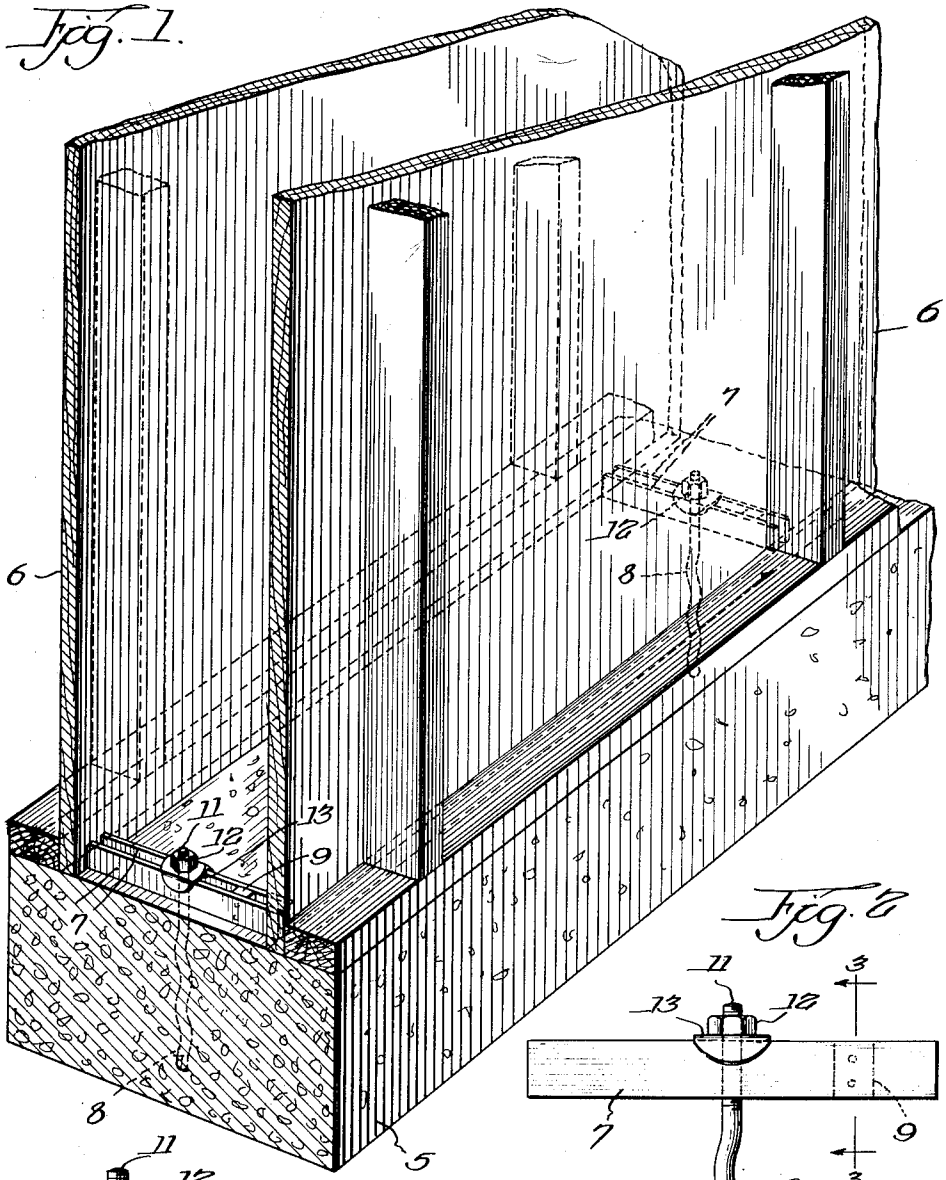


Fig. 2

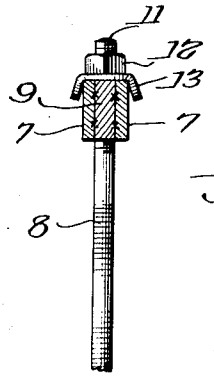


Fig. 3.

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ANCHOR LOCK FORM ALIGNER

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2 Claims. (Cl. 25—131)

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This invention relates to an anchor lock form aligner, and its principal object is to provide anchoring means, whereby the device may be rigidly anchored in concrete footings or other bases upon which it is used.

Another object is to provide aligning means that is adjustable with respect to the anchoring means, whereby the aligning means may be accurately adjusted to its form aligning position.

Another object is to provide a form aligner against which the lower ends of the forms may be placed in erecting the forms, whereby certainty of the alignment is assured.

With these and other objects and advantages in view, this invention consists in the several novel features hereinafter fully set forth and more definitely pointed out in the appended claims.

The invention is clearly illustrated in the drawing accompanying this specification, in which:

Fig. 1 is a perspective view of a fragment of a footing, two forms supported thereon and held in alignment by form aligners embodying a simple form of the present invention;

Fig. 2 is a side elevation of the anchor lock form aligner; and

Fig. 3 is a vertical cross section taken on the line 3—3 of Fig. 2.

Referring to said drawing, which is merely illustrative of one embodiment of the invention, the reference character 5 designates a fragment of a concrete footing or other base, upon which a concrete foundation or wall is to be poured, and 6, 6 designate two forms between which the concrete for the foundation or wall is to be poured.

The forms along each side of the footing must be aligned, and the conventional method of aligning them is to make a chalk line at the place where the inner face of the form is to be placed to act as a guide for aligning the forms.

The present anchor lock form aligner, as shown, comprises a pair of form aligning bars 7 spaced apart to receive the upper end of the anchoring means 8 between them. To save time in handling the form aligning bars the bars of each pair are spot welded to a spacer 9 preferably adjacent one end of the bars. The length of the form aligning bars is made to correspond with the width of the foundation or wall (not shown), which is to be poured. The anchoring means 8, as shown, comprises a rod of suitable length preferably kinked as at 10 and having an unkinked upper portion 11 screw threaded along a portion of its length.

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In use, the anchoring means 8 of each form aligner is inserted into the concrete footing before it has set, enough of the rod being left above the top surface of the footing to extend through the form aligning means and through a clamp nut 12 and washer 13. The anchoring means are placed approximately midway between the sides of the footing and spaced from two to three feet apart.

In use, a chalk line may be drawn on the top face of the footing to define the line where the inner faces of one set of forms are to be placed, and the form aligning bars are placed over the threaded protruding ends of the anchoring rods and crosswise of the footing. The ends adjacent the chalk line are then adjusted lengthwise of themselves to bring said ends in alignment with the chalk line. A washer 13 is then placed upon the protruding end of the rod and a nut 12 is screwed down tightly on the rod thereby clamping the form aligning bars tightly in place. If desired, the washers 13 may have downturned ends to engage over the outer sides of the form aligning bars and thereby prevent any spreading of the middle portions of the bars.

The lower ends of the forms are then abutted against the ends of the bars at both sides of the footing and held parallel and upright by conventional form stays and braces.

From the above, it is apparent that I have provided an anchor lock form aligner which is simple in construction, easily installed and functioning to enable the workmen to accurately align forms at each side of the concere foundations or walls to be erected.

Having thus described my invention, it is obvious that various immaterial modifications may be made in the same without departing from the spirit of my invention; hence, I do not wish to be understood as limiting myself to the exact form, construction, arrangement and combination of parts herein shown and described, or uses mentioned.

What I claim as new and desire to secure by Letters Patent is:

1. In a form aligner, the combination of a rod adapted to be partially embedded in a concrete footing, a pair of rectangularly-shaped form aligning bars spaced apart a safe distance to permit the passage of said rod therebetween, said bars lying in substantially parallel planes, means rigidly connecting said bars adjacent a pair of corresponding ends thereof for maintaining the bars in their relative positions, said rod having a threaded upper end adapted to extend above

the upper longitudinal edges of said bars, a washer on said rod seated on said longitudinal bar edges and having downwardly extending flanges engageable with the outer side faces of the respective bars to prevent spreading thereof, and a nut threaded on the upper end of said rod bearing on said washer and adapted to clamp the bars in place on a footing.

2. In a form aligner, a combination of a rod having an offset portion adjacent the lower end thereof adapted to be embedded in a concrete footing, a pair of rectangularly-shaped form aligning bars spaced apart a sufficient distance to permit the passage of said rod therebetween, said bars lying in substantially parallel planes and being substantially co-extensive in length, with each pair of adjacent bar ends adapted to engage a respective form member, means rigidly connecting said bars adjacent one pair of said ends for maintaining the bars in their relative

positions, said rod having a threaded upper end adapted to extend above the upper longitudinal edges of said bars, a washer on said rod seated on said longitudinal bar edges and having downwardly extending flanges engageable with the outer side faces of the respective bars to prevent spreading thereof, and a nut threaded on the upper end of said rod bearing on said washer and adapted to clamp the bars in place on a footing.

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REFERENCES CITED

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

UNITED STATES PATENTS

Number	Name	Date
1,746,918	Webster	Feb. 11, 1930
2,378,850	Hyre	June 19, 1945