

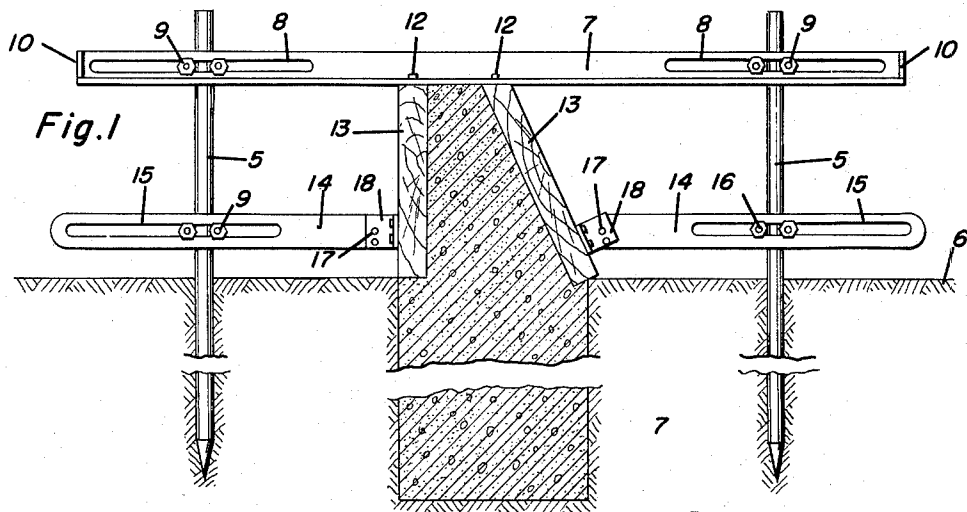
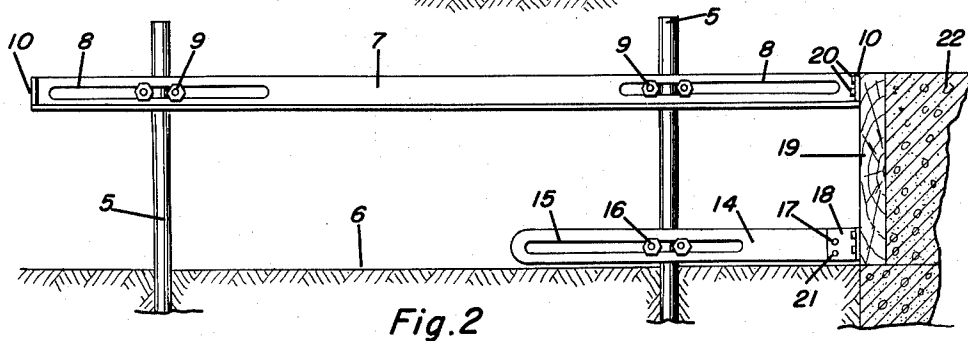
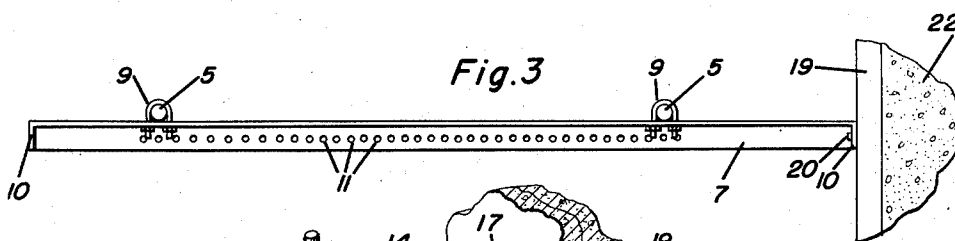
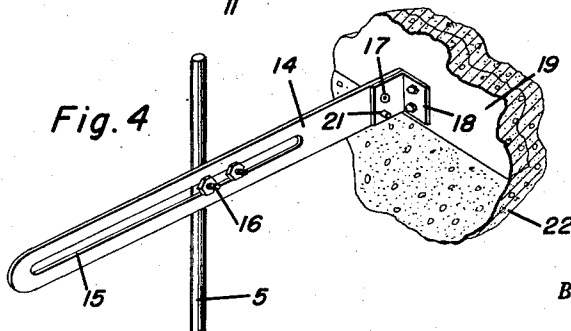
Oct. 2, 1956

J. P. HUFF

2,764,798

CONCRETE FORM

Filed Aug. 24, 1953



John P. Huff
INVENTOR.

BY *Thomas A. O'Brien*
and *Harvey R. Jackson*
Attorneys

1

2,764,798

CONCRETE FORM

John P. Huff, Cedar Falls, Iowa

Application August 24, 1953, Serial No. 375,889

1 Claim. (Cl. 25—118)

The present invention relates to new and useful improvements in concrete forms for footings, slabs, sidewalks, etc., and has for its primary object to provide in a manner as hereinafter set forth, a device of this character which is particularly adapted to span open trenches.

Another very important object of the invention is to provide a concrete form of the aforementioned character which may be readily adjusted to allow various angles to be formed.

Other objects of the invention are to provide a concrete form of the character described which will be comparatively simple in construction, durable, highly efficient and reliable in use, compact, light in weight and which may be manufactured at low cost.

All of the foregoing and still further objects and advantages of the invention will become apparent from a study of the following specification, taken in connection with the accompanying drawing wherein like characters of reference designate corresponding parts throughout the several views, and wherein:

Figure 1 is a cross sectional view of an embodiment of the invention, showing the device being used in the forming of a footing;

Figure 2 is a cross sectional view, showing another application of the device;

Figure 3 is a top plan view thereof;

Figure 4 is a perspective view of the lower portion of the device.

Referring now to the drawing in detail, it will be seen that reference character 5 designates a pair of metallic stakes which are driven into the ground, as at 6, on opposite sides of a trench 7. Mounted for vertical and horizontal adjustment on the upper portions of the stakes 5 is an angle iron spanning bar 7. The bar 7 is provided in the end portions of its vertical leg with longitudinal slots 8 which accommodate U-bolts 9 for adjustably and detachably securing said bar to the stakes 5. The bar 7 further includes apertured end plates 10 the purpose of which will be presently set forth.

The horizontal leg of the angle iron spanning bar 7 (see Figure 3) has formed therein a series of spaced openings 11. The openings 11 accommodate fasteners 12 for adjustably securing a pair of side forms 13 beneath the spanning bar 7. Of course, the fasteners 12 are insertable selectively through the openings 11.

Mounted for vertical and longitudinal adjustment on the stakes 5 below the spanning bar 7 is a pair of removable metallic arms 14. The arms 14 have formed therein longitudinal slots 15 which accommodate U-bolts 16 for adjustably mounting said bars on the stakes 5.

Pivotally mounted, as at 17, on the inner end portions

2

of the arms 14 are angle brackets 18 which are fixed to the side forms 13.

It is thought that the operation of the invention as thus far described will be readily apparent from a consideration of the foregoing. Briefly, the stakes 5 are erected on opposite sides of the trench 7 and members 7 and 14 are mounted on said stakes and secured in adjusted position through the medium of the U-bolts 9 and 16. The openings 11 in the spanning bar 7 permit any desired space to be had between the side forms 13 and the pivotally mounted angle brackets 18 allow various angles. By simply loosening the nuts on the U-bolts 9 and 16 the members 7 and 14 may readily be adjusted vertically or longitudinally as desired.

The arrangement shown in Figures 2, 3 and 4 of the drawing comprises a single side form 19 the upper portion of which one end of the bar 7 abuts. The apertured plate 10 on this end of the bar 7 accommodates securing elements, as at 20, for anchoring the bar 7 to the side form 19. Then, one of the arms 14 is secured to the lower portion of the side form 19. This arm 14 and angle bracket 18 thereon are provided with registering apertures for the reception of a pin 21 (see Figure 4) for securing said arm against swinging movement.

The stakes 5 are erected at spaced points on one side of the work, as at 22, and bar 7 is secured on the upper portions of said stakes through the medium of the U-bolts 9. The single arm 14 which is used is mounted on the innermost stake 5. As in the embodiment of Figure 1, the members 7 and 14 in Figure 2 of the drawing may be readily adjusted as desired on the stakes 5 by loosening the nuts on the U-bolts 9 and 16.

It is believed that the many advantages of a concrete form constructed in accordance with the present invention will be readily understood and although preferred embodiments are as illustrated and described, it is to be understood that changes in the details of construction and in the combination and arrangement of parts may be resorted to which will fall within the scope of the invention as claimed.

What is claimed is:

A device of the character described comprising, in combination, a pair of spaced ground stakes for positioning selectively on opposite sides or on one side of concrete forms, a horizontal bar mounted for vertical and horizontal sliding adjustment on the upper portions of the stakes for traversing a form and engageable at an intermediate point therewith when the stakes are on opposite sides thereof and for end-abutting engagement with a form when both of said stakes are on one side thereof, means for selectively securing either end of the bar to the form when the stakes are in the second position, a relatively short horizontal arm mounted for vertical and horizontal sliding adjustment on the lower portion of one of the stakes, and means on one end of said arm for pivotally and detachably securing same to the forms.

References Cited in the file of this patent

UNITED STATES PATENTS

1,397,253	Jones	Nov. 15, 1921
1,672,760	Heltzel	June 5, 1928
1,833,509	Wolf	Nov. 24, 1931
1,922,584	Heltzel	Aug. 15, 1933
2,180,842	Winding	Nov. 21, 1939
2,492,502	Salmon	Dec. 27, 1949