

Sept. 14, 1954

J. V. LAWLER

2,688,787

CONCRETE FORM

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Fig. 1.

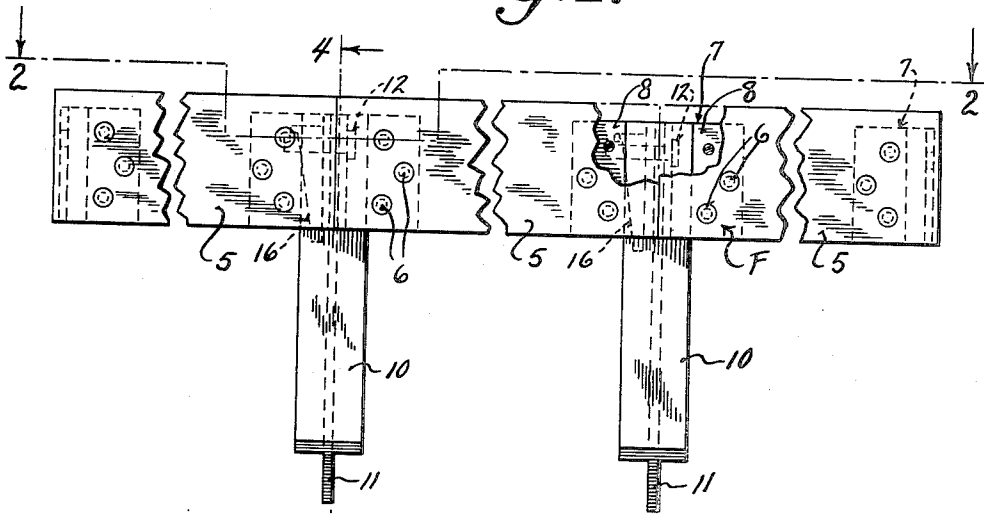


Fig. 2.

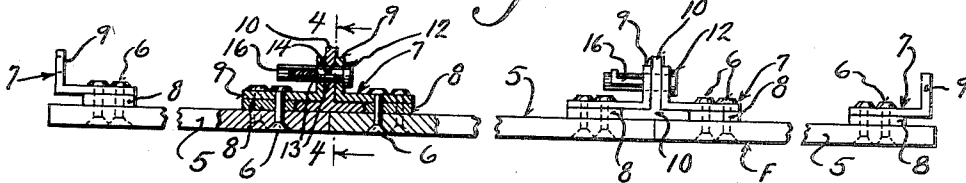


Fig. 3.

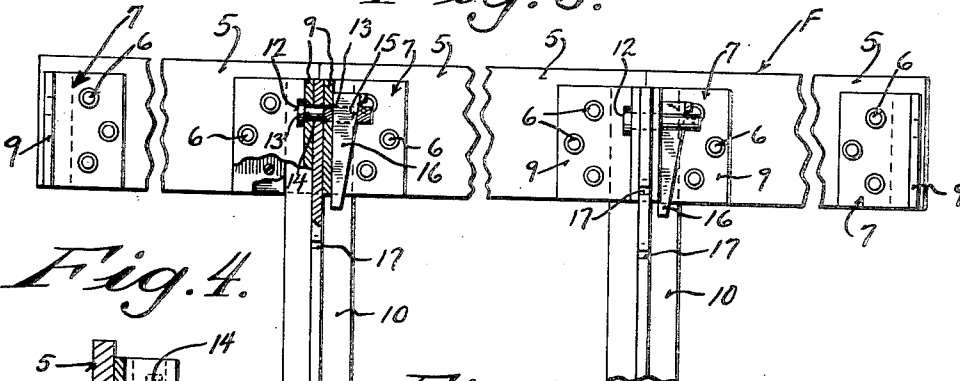


Fig. 4.

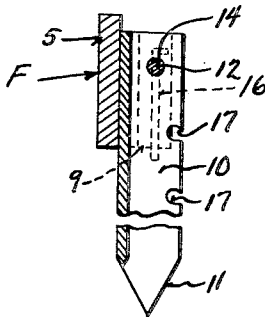
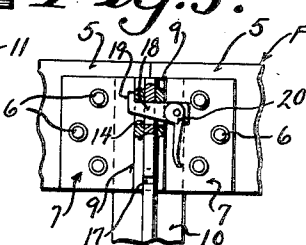


Fig. 5.



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CONCRETE FORM

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2 Claims. (Cl. 25—118)

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This invention appertains to the building of concrete and like walks, pavements, roads, floors, platforms, etc., and more particularly to a novel removable form for the concrete walks and the like.

It is customary in the building of concrete walks and the like, to drive wooden uprights along the sides of the walks to be laid and to then nail rough boards to the uprights. Difficulty is had in correctly leveling the upper edges of the boards and when the form is removed, the boards are usually mutilated or broken and rendered useless for further service.

One of the primary objects of my invention, is the provision of a prefabricated form for the edges of concrete walks and the like, which can be quickly and easily set up for use and readily taken down for re-use without mutilation.

A further object of my invention is to provide novel formed metal stakes to be driven into the ground and plywood, pressed processed wood (Masonite) or like smoothing boards or panels having novel guides rigidly secured to the terminals thereof for receiving the stakes, with novel means for connecting the guides and stakes together to provide the desired rigid form.

A further important object of my invention is the provision of means whereby the boards or panels with their guides can be adjusted up or down on the stakes to the desired and correct level.

A still further object of my invention is to provide a prefabricated form for concrete walks and the like of the above character, which will be durable and efficient in use, one that will be simple and easy to manufacture and one which can be placed upon the market at a reasonable cost.

With these and other objects in view, the invention consists in the novel construction, arrangement and formation of parts, as will be hereinafter more specifically described and claimed, and illustrated in the accompanying drawing, in which drawing:

Figure 1 is a front elevation view, showing sections of my form set up for use, parts of the figure being shown broken away.

Figure 2 is a top plan view showing sections of the form set up with parts thereof in section, the parts in section being taken on the line 2—2 of Figure 1, looking in the direction of the arrows.

Figure 3 is a rear elevational view, showing the sections of the form connected together, parts of the view being shown broken away and in section.

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Figure 4 is a vertical sectional view, taken on the line 4—4 of Figure 1 looking in the direction of the arrows.

Figure 5 is a fragmentary rear elevational view, with parts thereof broken away and in section, the view illustrating a modified form of connecting the guides and stakes detachably together.

Referring to the drawing in detail, wherein similar reference characters designate corresponding parts throughout the several views, the letter F generally indicates my improved form for laying concrete walks and the like, and the same includes a plurality of lengths of boards, or panels 5, preferably, but not necessarily formed from Masonite or plywood, so that they will be light and durable. Riveted, or otherwise fastened, as at 6, to the ends of the boards 5, are steel L-shaped guides or brackets 7. Metal spacer strips 8, are placed between the guides or brackets 7 and the boards 5, so that parts of the guides or brackets 7, will be spaced from the outer faces of the boards. The L-shaped guides or brackets include outwardly extending, vertical flanges 9, which terminate slightly short of the end edges of each board, for a purpose, which will later appear.

When the edges of the boards are placed together, as shown in Figures 1 to 3, the adjacent L-shaped guides or brackets 7 form the desired tracks for stakes 10. The stakes 10 are of a T-shape in cross-section and have their lower ends cut away and sharpened to provide penetrating points 11.

The stakes 10 are driven in the desired line into the ground, along the sides of the walk, floor or the like, to be laid, after which the boards 5 are placed in position against the upper ends of the stakes with the edges thereof in desired alignment. The top edges of the boards 5 are made level with the upper face of the walk to be laid. Headed pins 12 are placed through registering openings 13 and 14 formed in the flanges 9 of the guides 7 and the stakes 10. Each pin 12 is provided adjacent to its outer end, with a wedge-shaped slot 15 and wedge-shaped keys 16 are driven through the slots 15 against the adjacent guides 7. This will draw boards 5 toward one another, and firmly hold the entire form in assembled condition. Obviously, more than one opening 14 can be formed in the stakes 10, so as to permit the raising and lowering of the boards.

The concrete walk is then laid in the usual manner up against the boards 5 level with the top edges thereof, and a smoothing plank can

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be drawn along the upper edges of the boards 5 to smooth off the top of the walk.

The stakes 10 are provided at different points with notches 17 for the reception of a lever, crowbar or the like to facilitate the removal of the stakes, after the concrete has set.

In lieu of using the pins 12 and wedges 13 to connect the guides 7 and stakes 10 together, I can utilize a connecting plate 18. One end of the plate is provided with a finger 19 for engaging one guide 7. The end of the plate opposite to the finger 19 pivotally carries a cam lever 20. After the connecting plate 18 is inserted through the registering openings of the guides 7 and the stake 10, the cam lever 20 is swung down against the outer face of the other guide 7. This will draw the guides 7 into intimate contact with the stake and detachably hold the form parts together.

From the foregoing description, it can be seen that I have provided an exceptionally simple form which can be easily assembled for use and readily taken apart for re-use. Changes in details may be made without departing from the spirit or the scope of this invention, but what I claim as new is:

1. A prefabricated form for concrete walks and the like comprising a plurality of stakes of a T-shape in cross section having lower pointed ends, a plurality of boards, L-shaped guides at the ends of the boards, spacer strips between portions of the guides and boards, means rigidly securing the guides and spacer strips to the boards, said L-shaped guides having each adjacent opposed end of their outwardly extending flanges respectively terminating short of the

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respective end of a respective board, said guides and boards receiving and embracing the stakes with the flat head surface of each T stake lying against respective end portions of the boards, and a fastening member passing through said outwardly extending flanges and the intermediate portion of each stake for detachably securing the guides to the stakes.

2. In a concrete form, a pair of panels to be supported end to end, adjacent ends of the panels having brackets mounted thereon, each bracket having a longitudinal portion spaced from said panel and having its outer end terminating short of the respective end of a respective panel, an outwardly extending flange on the respective outer end of the longitudinal portion of each of said brackets, said bracket and side of one panel forming with the adjacent bracket and side of the other panel a T-shaped stake aperture extending transversely along one side of the panels, a T-stake snugly engaged within said aperture, and a fastener engaging the flanges to the stake.

References Cited in the file of this patent

UNITED STATES PATENTS

Number	Name	Date
640,377	Haentges	Jan. 2, 1900
1,274,618	Smith	Aug. 6, 1918
1,295,850	Carr	Mar. 4, 1919

FOREIGN PATENTS

Number	Country	Date
133,408	Switzerland	Aug. 16, 1929