

No. 858,924.

PATENTED JULY 2, 1907.

C. A. P. TURNER.
CENTERING FOR REINFORCED CONCRETE WORK.
APPLICATION FILED OCT. 22, 1906.

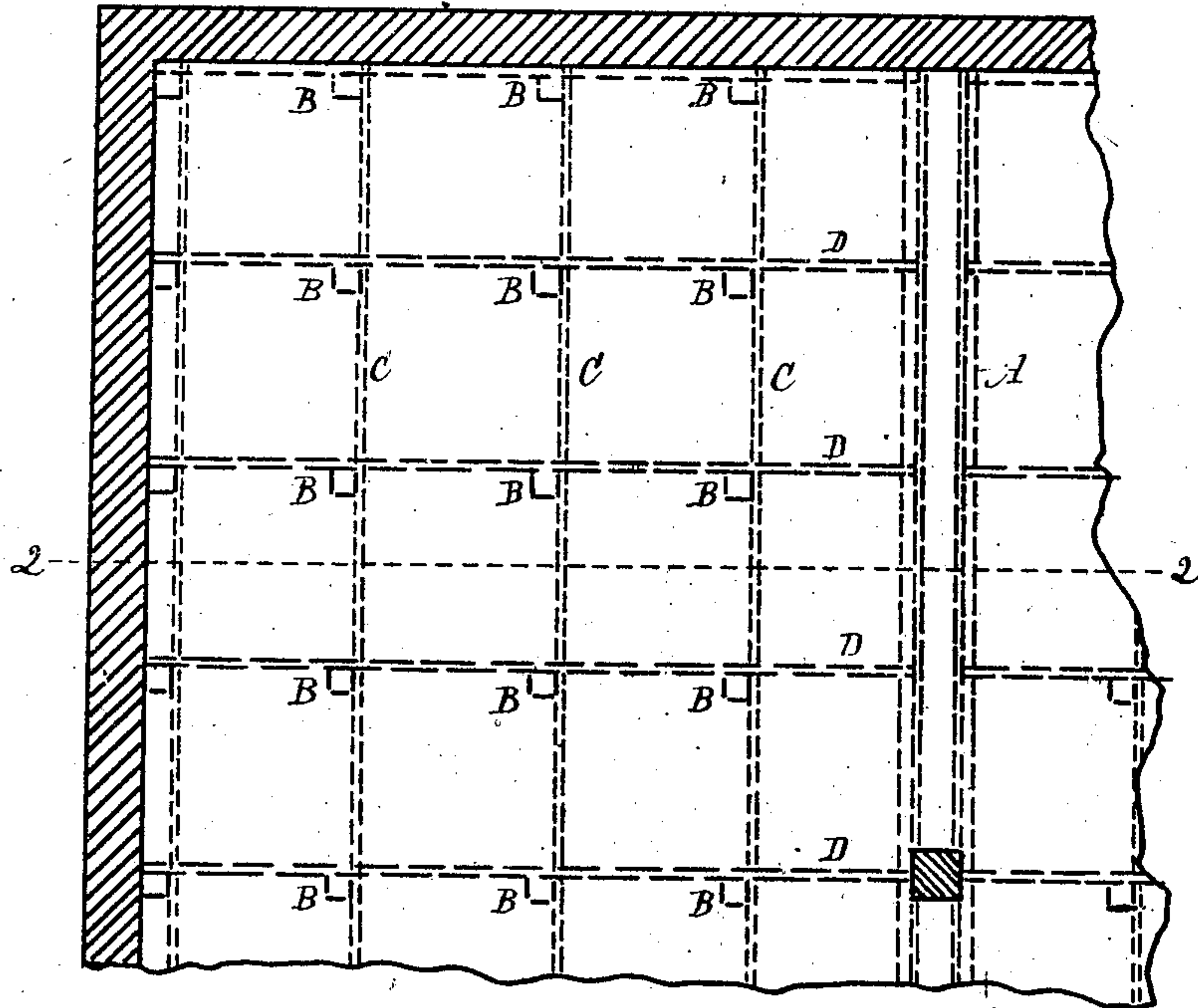


Fig. 1

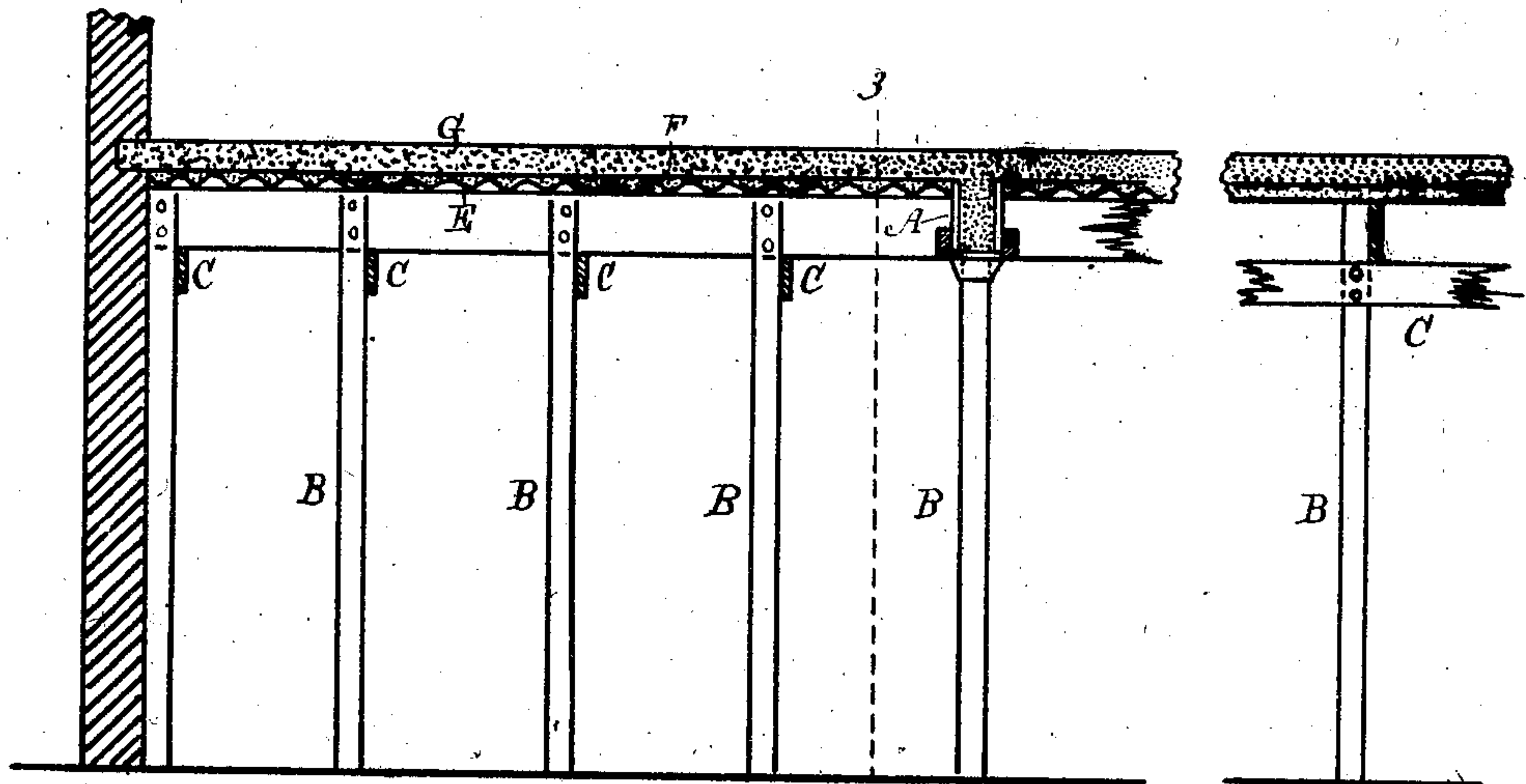


Fig. 2

Fig. 3

WITNESSES

O. B. Segler
H. A. Peterson

INVENTOR

Claude A. P. Turner
By J. W. Powers
Atty

UNITED STATES PATENT OFFICE

CLAUDE A. P. TURNER, OF MINNEAPOLIS, MINNESOTA.

CENTERING FOR REINFORCED CONCRETE WORK

No. 858,924.

Specification of Letters Patent.

Patented July 2, 1907.

Application filed October 22, 1906. Serial No. 339,980.

To all whom it may concern:

Be it known that I, CLAUDE A. P. TURNER, of Minneapolis, in the county of Hennepin and State of Minnesota, have invented certain new and useful Improvements in Centering for Reinforced Concrete Work, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing, forming a part of this specification.

My invention relates, and it consists in providing new and improved centering upon which to mold reinforced floor slab, as will hereinafter be more fully described.

The purpose of my invention is to provide an adjustable sheet metal mold adapted to receive semi-liquid concrete, in floor slab construction. In centering for this work it has been the custom to use boards to support the wet concrete and reinforcement, which boards, through shrinking, leave cracks between them, thus allowing waste of the liquid concrete, and through warping, leave an uneven surface to the underside of the slab mold thereupon. In contradistinction to such practice, I arrange sheets of corrugated metal upon the supporting means, lapping the said sheets both lengthwise and sidewise, said sheets being thereby adjustable to the opening between the ribs, and adapted for use in varying areas. These sheets I support at suitable intervals intermediate their length, generally at a distance of four to four and a half feet.

In the drawing Figure 1 is a horizontal section of the walls and a plan view of my false work. (the supporting frame upon which I lay my corrugated sheet metal) the posts, stays, floor beam and joist being shown by dotted lines. Fig. 2 is a detail being a section of Fig. 1, taken on the line 2 2, and Fig. 3 is another detail, being a section of Fig. 2, taken on the line 3 3.

Similar letters refer to similar parts, A being the floor beam B the posts, C the stays, affixed thereto, D the floor joists resting upon the said stays or nailed to the said posts, E the corrugated metal sheets, laid upon the said joists, F the sand, filling the corrugations of the said metal sheets, and G the reinforced concrete, molded upon the said filling.

Through the use of such construction I save loss through the concrete dropping through the crevices in the wood centering, and also save the waste incident to cutting the boards to the required sizes.

To get a smooth surface to the under side of my floor slab, I fill the corrugations in the metal sheets with fine sand (silica sand if obtainable) which sand I carefully level off. This sand serves to indurate the concrete upon the under side, gives a perfect stone finish and an even surface thereto, thus enabling me to take down the centering with ease and rapidity. After the process of indurating and crystallizing of the said slab, I remove the false work (the support stays, joists and corrugated metal) which parts may be preserved for future use. The object of the said filling in the corrugation is to give a smooth level surface to the bottom of the slab to save the usual waste of concrete through joints in common board centering, to take up excess water in concrete and give it back to the concrete as it is needed to produce perfect crystallization, thereby making the concrete stronger and better adapted to withstand the heat or to render it fireproof,

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

1. A support for concrete work, consisting of horizontally adjustable sheets of corrugated metal, and a filling in the corrugations.

2. A support for concrete work, consisting of horizontally overlapping sheets of corrugated metal, and a filling in the corrugations.

3. A support for concrete work, consisting of horizontally overlapping sheets of corrugated metal, and a sand filling in the corrugations.

4. In a support for concrete work, the combination of adjustable horizontally overlapping sheets of corrugated metal, and supports for said sheets.

5. In a support for concrete work, the combination of joists, horizontally overlapping sheets of corrugated metal supported by the joists, and a filling in the corrugations of the metal sheets.

6. In a support for concrete work, the combination of joists, sheets of corrugated metal horizontally adjustable and resting upon and supported by said joists, said sheets of metal being corrugated, and sand filling the corrugations of the metal sheets.

7. A support for concrete work, consisting of overlapping sheets of corrugated metal, said sheets being horizontally adjustable both longitudinally and transversely.

CLAUDE A. P. TURNER.

Witnesses:

H. H. PETERSON,
D. B. FEGLES.