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ADJUSTABLE REMOVABLE FORM FOR CONCRETE FLOORS AND THE LIKE

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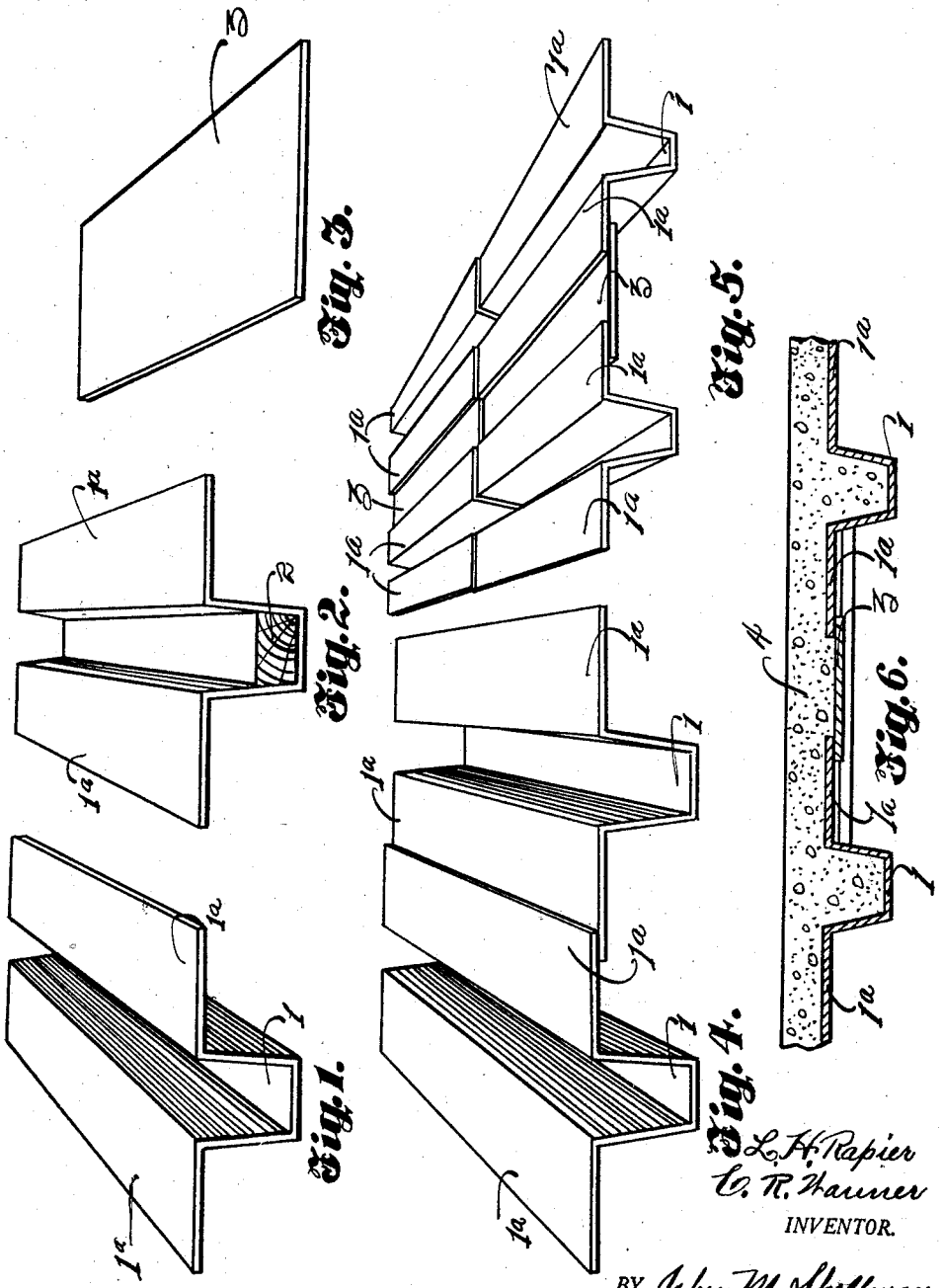


Fig. 3.

Fig. 2.

Fig. 1.

Fig. 5.

Fig. 4.

Fig. 6.

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ADJUSTABLE REMOVABLE FORM FOR CONCRETE FLOORS AND THE LIKE.

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To all whom it may concern:

Be it known that we, CHARLES R. WANNER and LEE H. RAPIER, citizens of the United States, residing at Dallas, in the county of Dallas and State of Texas, have invented certain new and useful Improvements in Adjustable Removable Forms for Concrete Floors and the like, of which the following is a specification.

This invention relates to forms for concrete floors and the like and refers to adjustable removable metal forms adapted to be supported at the level of the floor to be laid, and to be so shaped and lapped as to allow their weight to release them, when the supporting means is removed, and after the material of which the floor is made has set sufficiently.

Objects of the invention are to provide a form that will be simple and inexpensive of construction, that will require a smaller amount of shoring to support, that will be easily adjustable and removable, and will not adhere to the cement, which would make leverage necessary to remove it, the form being removable by its own weight, as soon as the supporting shoring is removed.

Other objects and features will be set forth as well as the above in the course of the following description of the construction of a preferred form of the invention, of which the drawings attached hereto form a part, and wherein—

Figure 1 shows a perspective view of the joist forming element of the invention and

Figure 2 shows a like view, having, in addition, a removable base strip to decrease the depth of the joist forming element.

Figure 3 represents a perspective view of the lateral extension plate.

Figure 4 is a perspective view of the assembly of two of the joist forming members.

Figure 5 is a perspective view of the assembly of four joist forming members and the lateral extension plates used therewith.

Figure 6, is a cross-section of Figure 5 taken at points 6—6 with the form in position and loaded with concrete.

Following the figures, a plate of suitable metal is bent into the shape shown in Figure 1, in such a manner that the sides of the trough 1 relatively converge from the top to the bottom, and the side or laterally extending flanges 1^a extend in a direction parallel to the plane of the bottom of the trough.

When it is desired to make the joist forming element of the invention shallower, a suitable false bottom of wood or other material 2 is placed in the bottom of the trough, as shown in Figure 2.

In Figure 3, a metal lateral extension plate 3 is shown, which should preferably be of material of like strength and thickness as the joist forming elements, which may be used in lapping relationship with the joist forming elements when it is desired to mold a floor with the joists in wider spacing one from the other. When the joists are adapted to be spaced closer together, the lateral extension plate is left out of the assemblage, and the lateral flanges are lapped one over the other.

After the form is assembled, the concrete is poured, and after same is set, the supports or shoring of timber, (not shown) below the form, are removed, the form is dropped down, falling by its own weight, and the floor is completely formed.

It should be understood that the troughs are made of a size to form the concrete joists in the desired size, and the width of the flanges and plates may vary.

Figure 4 shows the assembly without the plates, and Figure 5 shows the assembly with the plates, and also shows the longitudinal lapping and extension. Figure 6 shows the concrete 4 as it rests in the assembled form.

What is claimed is:

1. A form for concrete floors, comprised of an assemblage of U shaped members, each member having laterally projecting flanges, adapted to lap with the flanges of other like members when the floor joists are adapted to be closer together, a substantially flat extension member, adapted to be lapped with the flanges when the joists are adapted to be further apart, and strips of suitable material adapted to be laid in the U shaped members, when it is desired to make the joists formed therein of lesser depth.

2. In a form for concrete floors, a U

shaped member tapered from top to bottom and having laterally extending flanges from the top sides thereof, and an auxiliary plate member adapted to be in lapped relationship with the flanges, and a strip or strips adapted to lie in the bottom portion of the U shaped member, said members being removable from the floor after the latter has set, without leverage being applied thereto.

In testimony whereof we have signed our names to this specification.

CHARLES R. WANNER.
LEE H. RAPIER.