

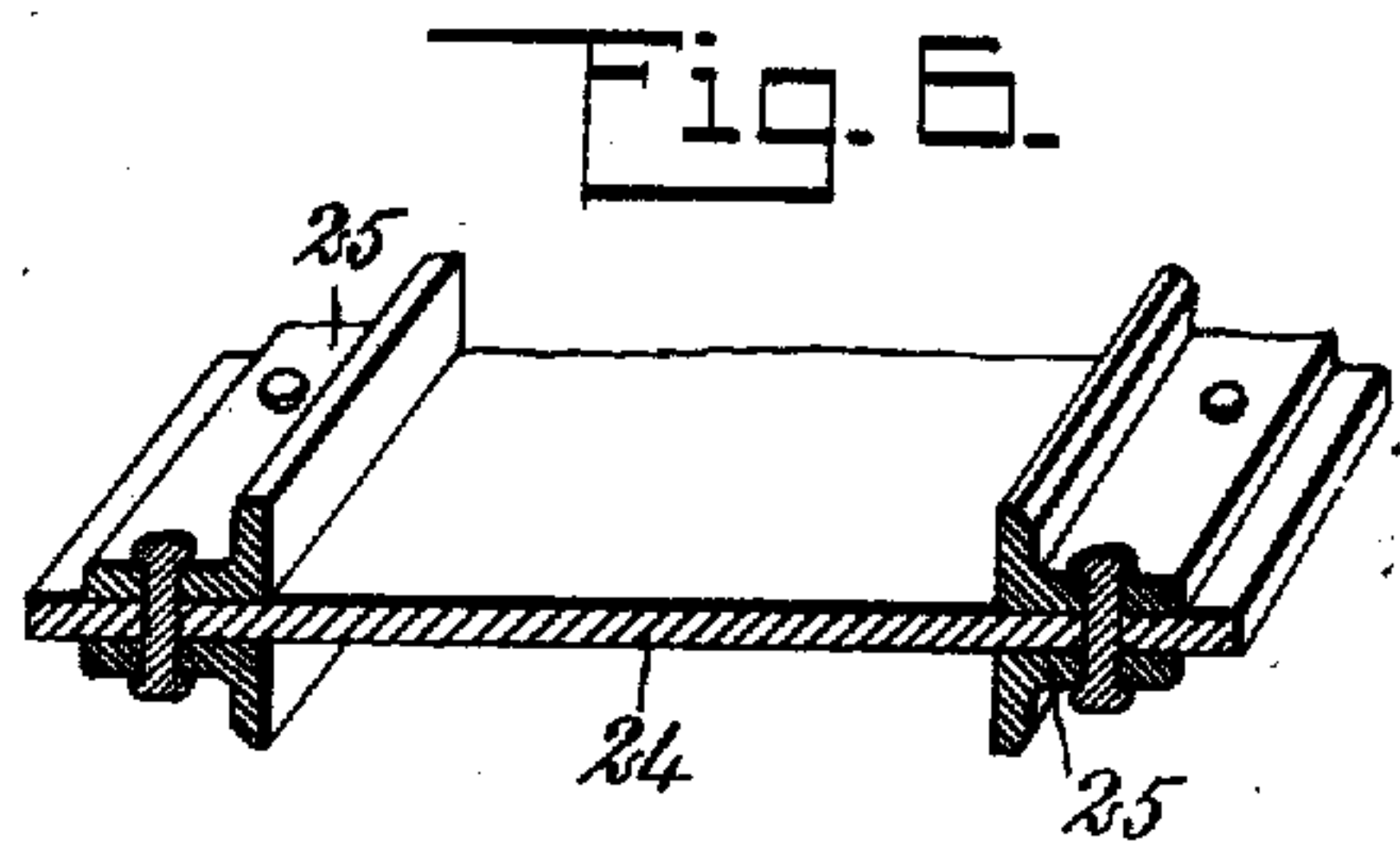
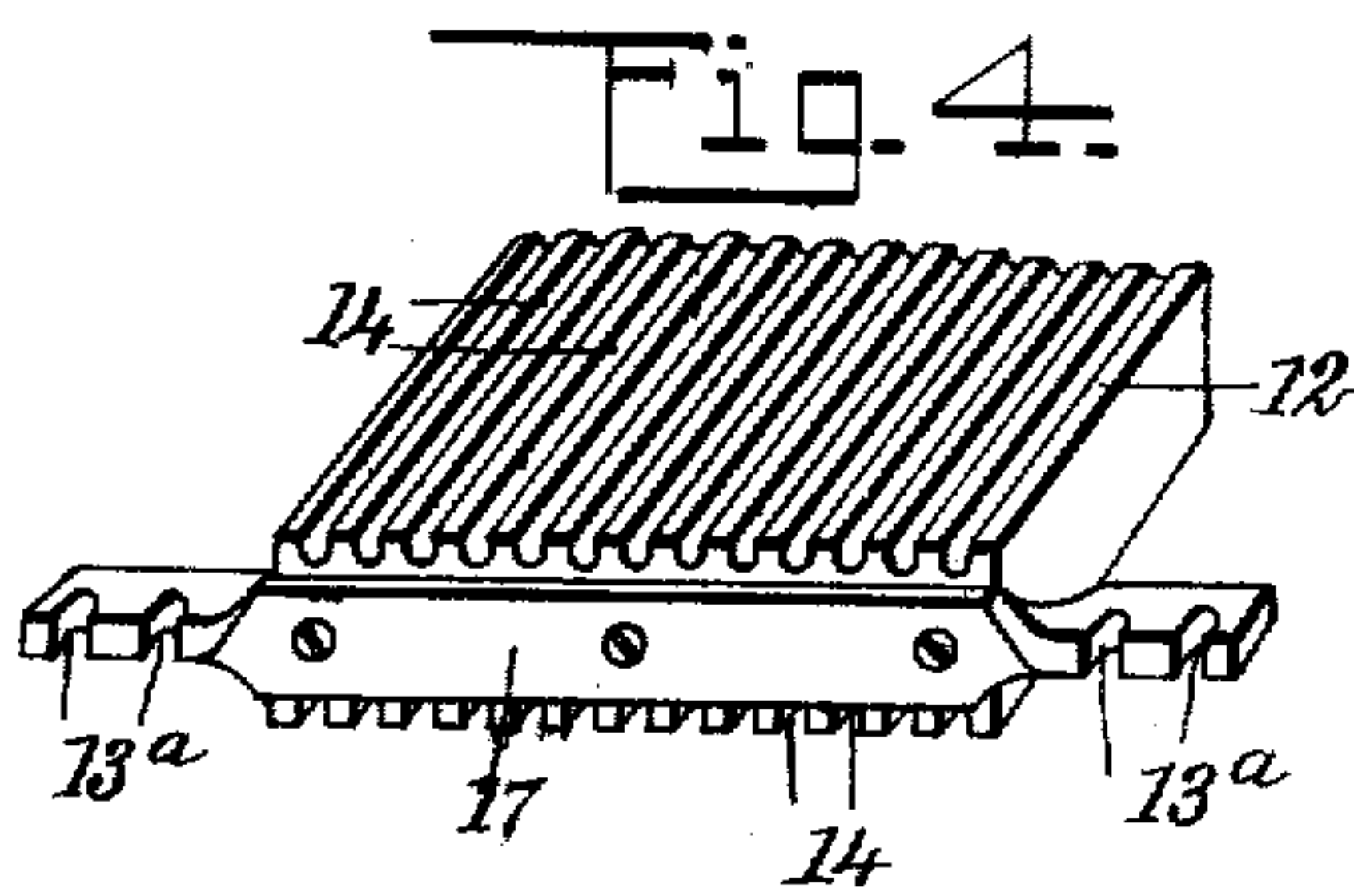
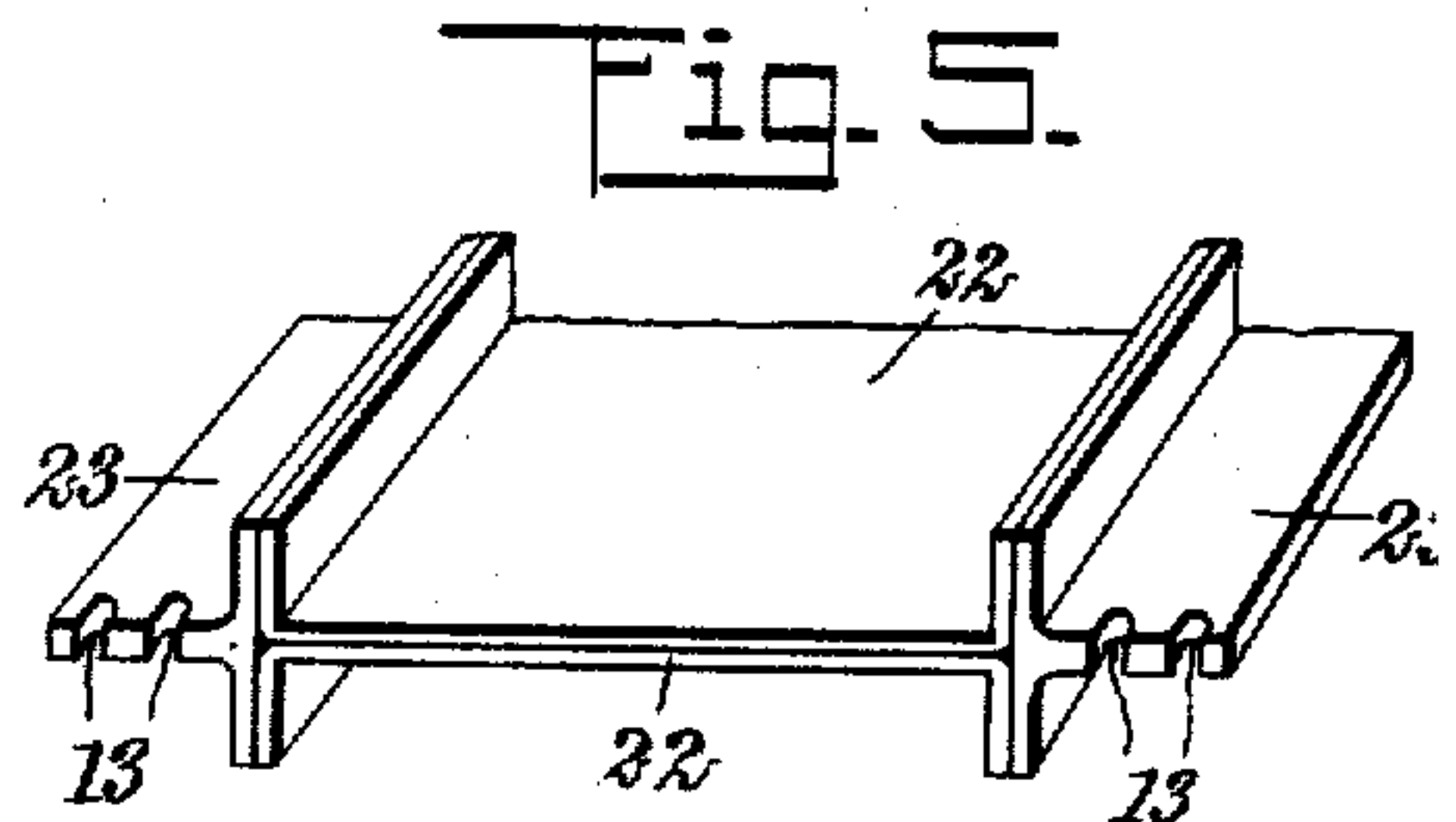
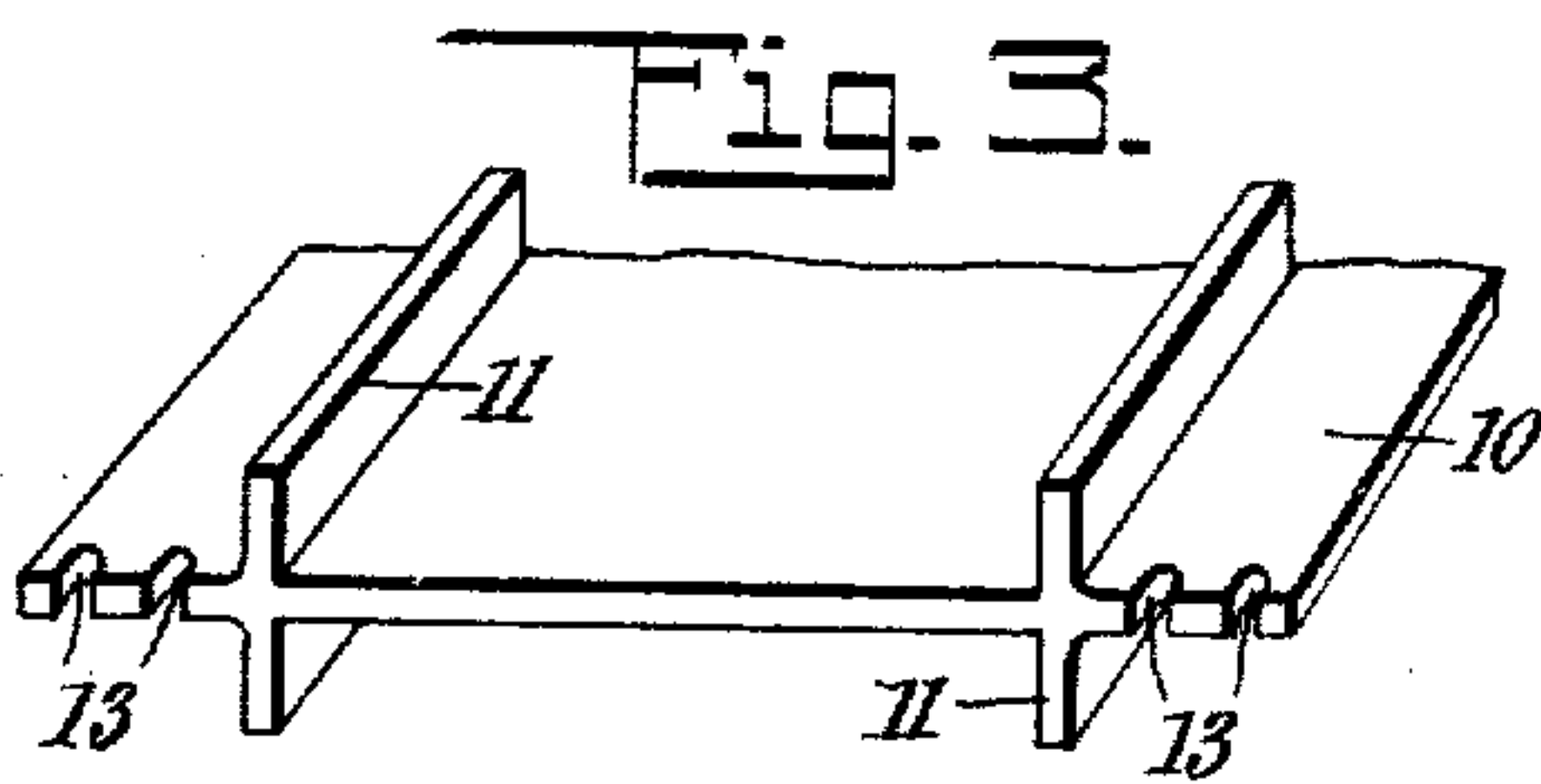
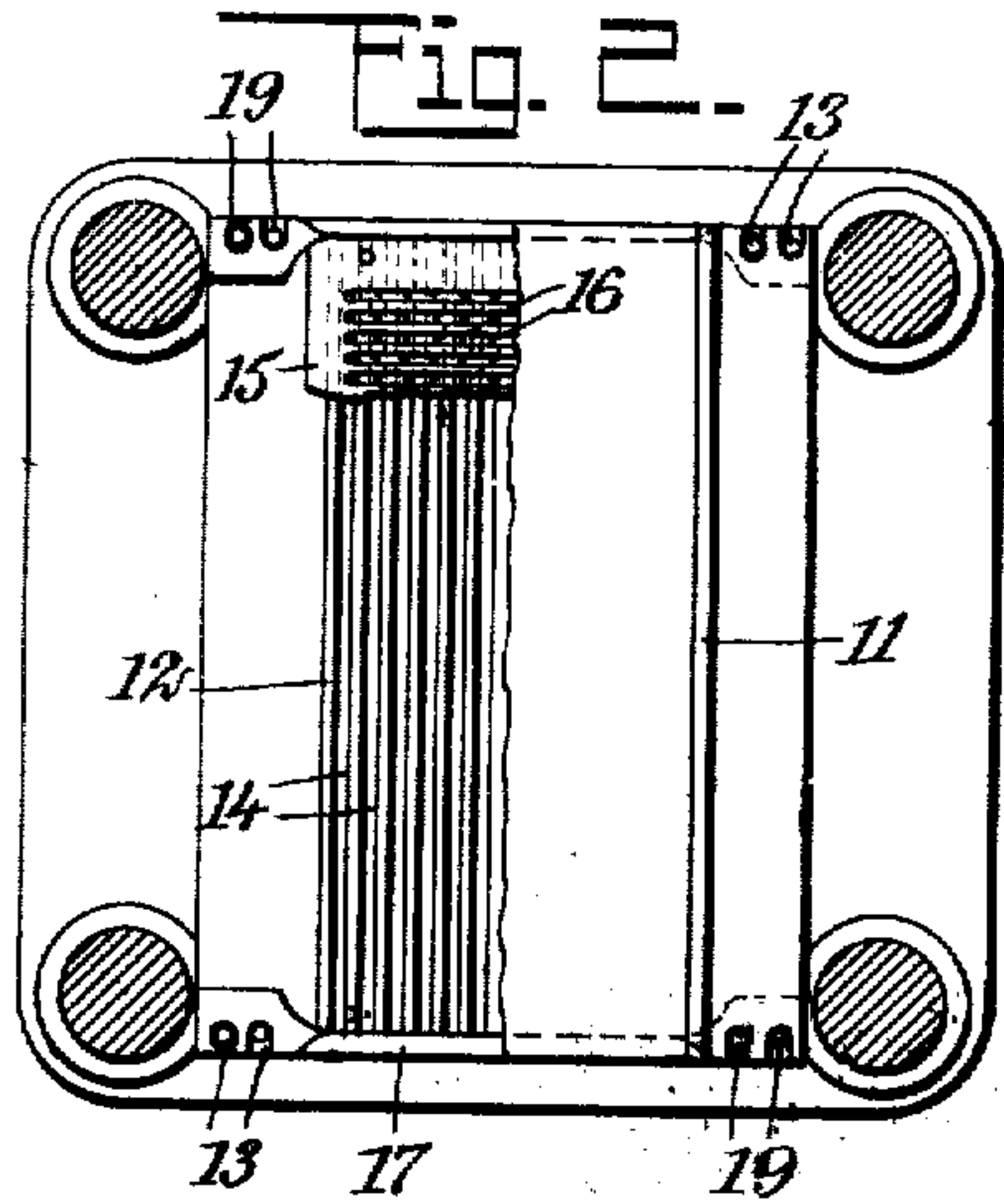
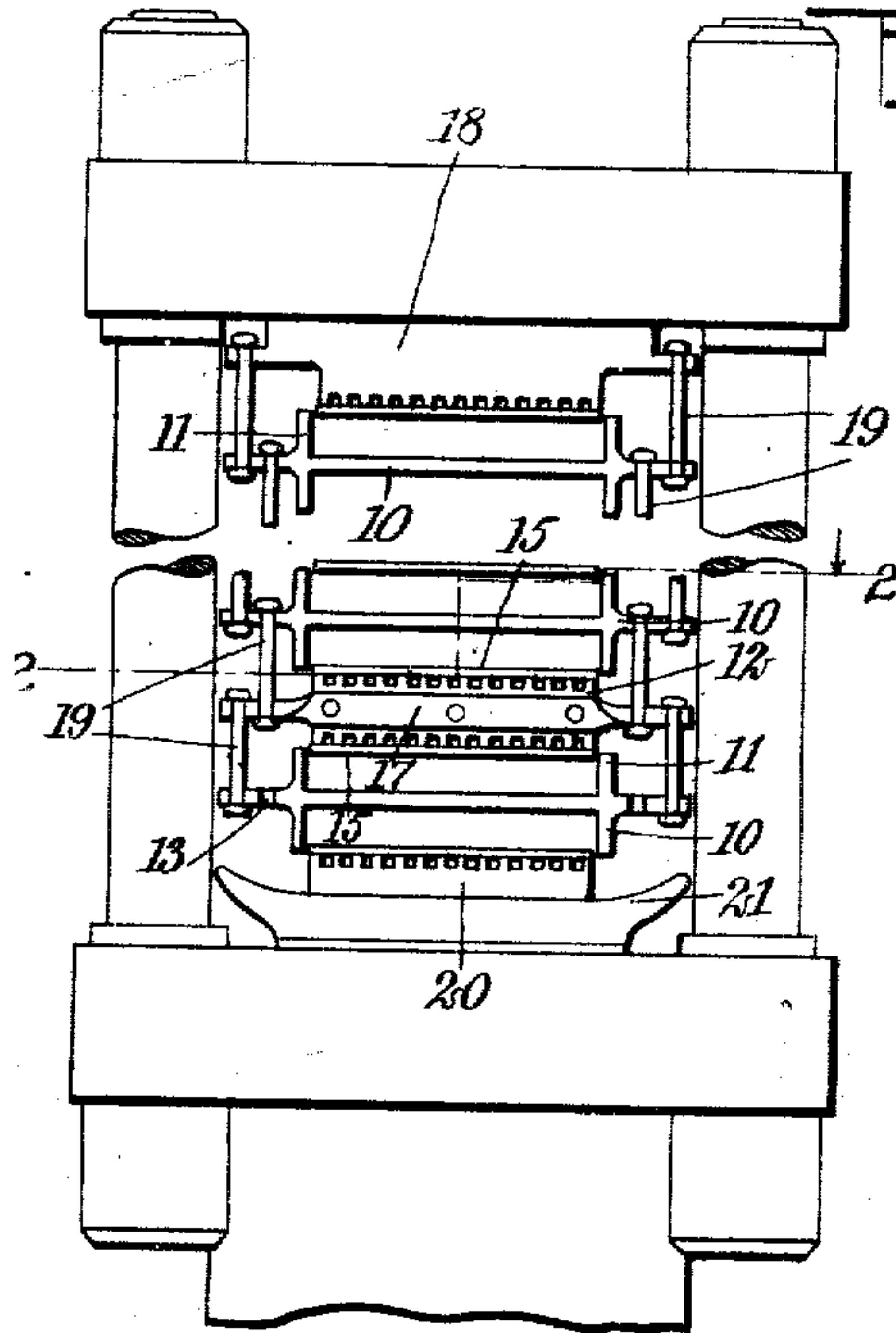
R. CARLIN.

PRESS BOX.

APPLICATION FILED DEC. 1, 1908.

922,257.

Patented May 18, 1909.



WITNESSES

L. Olmquist
W. W. Felt

INVENTOR

Ross Carlin

BY

Mum & Co

ATTORNEYS

UNITED STATES PATENT OFFICE.

ROSS CARLIN, OF OPELOUSAS, LOUISIANA.

PRESS-BOX.

No. 922,257.

Specification of Letters Patent.

Patented May 18, 1909.

Application filed December 1, 1908. Serial No. 465,502.

To all whom it may concern:

Be it known that I, ROSS CARLIN, a citizen of the United States, and a resident of Opelousas, in the parish of St. Landry and State of Louisiana, have invented a new and Improved Press-Box, of which the following is a full, clear, and exact description.

The invention is an improvement in press boxes such as are used in extracting oil from cotton seed, and is designed to prevent the flanges from being forced off the press plates by reason of the accumulation of meal on the extended portions of the press blocks, as is the case in the conventional press box.

The invention in a general way consists of a series of press blocks and a series of flanged press plates, the plates and blocks alternating with each other, with the opposite sides of each block movable between the flanges of adjacent plates.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a front elevation of a press with my improved press box assembled therewith; Fig. 2 is a horizontal section substantially on the line 2—2 of Fig. 1; Fig. 3 is a fragmentary perspective view of one of the press plates; Fig. 4 is a similar view of one of the press blocks; Fig. 5 is a fragmentary perspective view of a modified form of press plate; and Fig. 6 is a similar view in section of a still further form of the plate.

One of the press plates of my improved press box in its simplest form is shown in Fig. 3, wherein the plate 10 is provided with flanges 11 on both of its faces, extending from front to rear and spaced apart a distance to neatly fit the press block 12, shown in detail in Fig. 4. The flanges 11 are removed a sufficient distance from the ends of the plate proper to provide the latter with notches 13, two at each side at each end of the plate. The opposite faces of the press block 12 are ribbed to provide channels or grooves 14 extending from front to rear, each face of the press block being covered by a plate 15 of equal extent, and having perforations 16 in register with the channels, as shown in Fig. 2, the plates usually being fixed in position by screws or other analogous devices. On the ends of each block 12 is attached a transverse bar 17 having its opposite ends twisted to bring them

into a horizontal plane, and notched as indicated at 13^a, with the arrangement and relative location of the notches the same as the notches 13 of the plate 10.

In assembling the press box in an ordinary four-post press, as shown in Figs. 1 and 2, a series of press plates and press blocks are used and are arranged to alternate with each other. A block or plate having a single working face facing downwardly is secured to the top block of the press, such a press block 18 being shown in Fig. 1. From this block 18 the press plates and press blocks are successively suspended one from the other by hangers in the nature of double-headed pins 19, which engage in the notches 13 of the plates and the corresponding notches 13^a of the blocks, the bolts fitting to permit of the plates and blocks freely sliding therein when the box is telescoped, as it were, by the action of the press. The bottom press plate or press block 20, like the top press block, presents a single working face and is secured to the anvil 21 of the press.

In Fig. 5 I have shown a modified form of the press plate, which, instead of being constructed of a single piece, is composed of two channel-irons 22 and two T-irons 23, the channel-irons being arranged back to back, and the T-irons at the opposite sides of the channel irons, all of which are bolted, riveted or otherwise suitably secured together.

A further modified form of the press plate is shown in Fig. 6, wherein it will be seen that the body of the plate 24 is in one piece and has angle-irons 25 riveted thereto to form the flanges.

Having thus described my invention, I claim as new and desire to secure by Letters Patent:

1. In an oil press, the combination of a series of press blocks and a series of flanged press plates, the plates and blocks alternating with each other, with the opposite sides of each block movable between the flanges of adjacent plates.

2. In an oil press, the combination of a series of press blocks and a series of flanged press plates, the plates and blocks alternating with and suspended from each other, with the upper and lower portions of each block respectively movable between the flanges of the next upper plate and next lower plate.

3. In an oil press, the combination of

press plates having flanges on both faces, with the flanges on each face extending from front to rear and spaced apart, and a press block having a working face at each side, with one working face movable between the flanges on one face of the plate.

4. In an oil press, the combination of a series of press blocks having their opposite faces ribbed to provide channels, and a plate attached to each face of the block having perforations in register with the channels.

5. In an oil press, a press block having working faces at each side, and a cross-bar attached to each end of the block, having its opposite ends twisted to bring them approximately in the plane of the block, and provided with notches to engage a support.

6. In an oil press, a press plate having flanges on each face spaced apart, and press

blocks respectively movable between the flanges on opposite faces of the plate.

7. In an oil press, the combination of a series of press blocks and a series of flanged plates, the plates and blocks alternating with each other, and hangers successively suspending the blocks and plates one from the other, to permit the opposite sides of each block to move between the flanges of adjacent plates when the opposite ends of the box are forced together.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ROSS CARLIN.

Witnesses:

XONIS GOSSELIN,
J. B. SANDOZ.