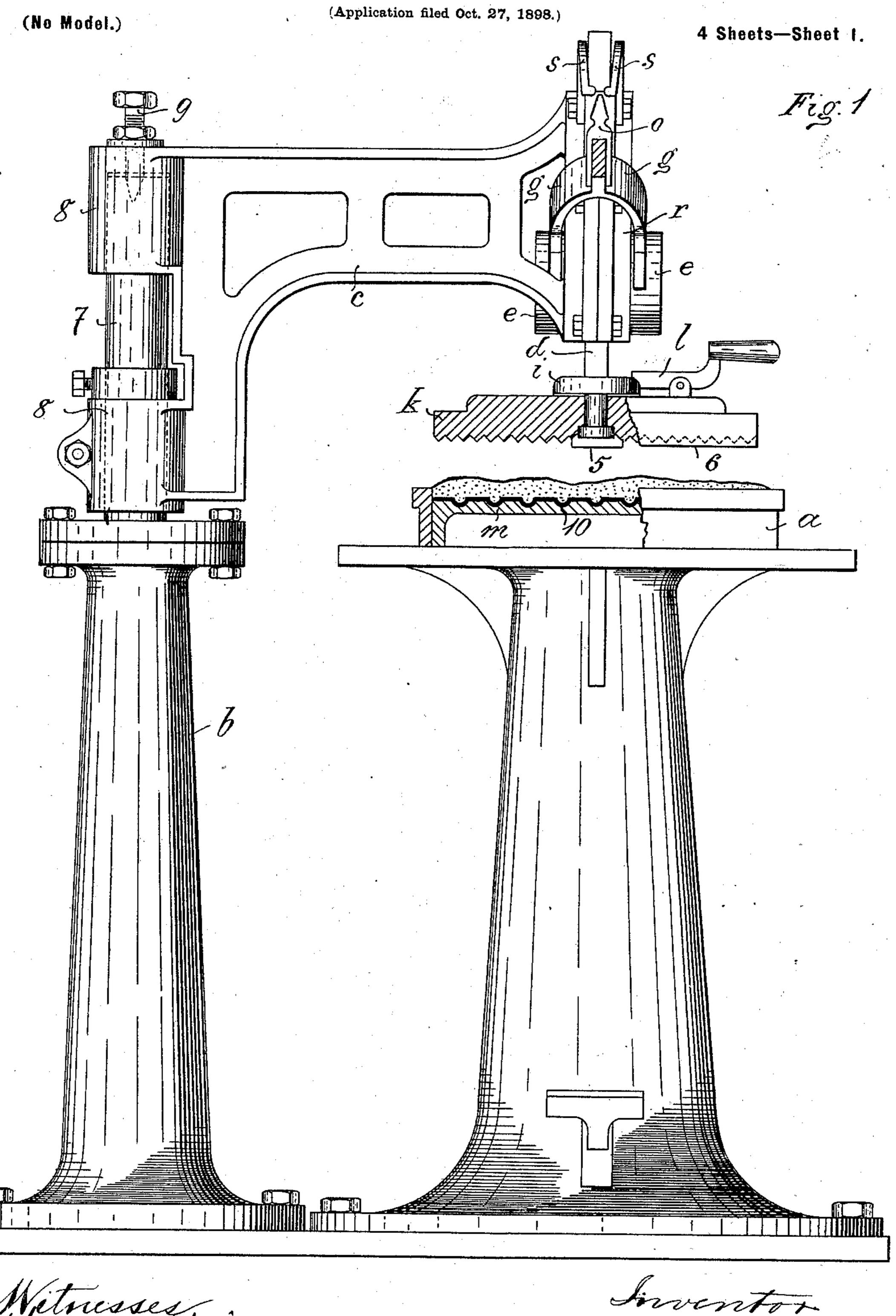
A. WEIL.

#### TILE MACHINE.



Herry a Konghit. Horbort Fradley Abrahamtteil By Knight Bros No. 647,431.

Patented Apr. 10, 1900.

### A. WEIL. TILE MACHINE.

(No Model.)

(Application filed Oct. 27, 1898.)

4 Sheets—Sheet 2.

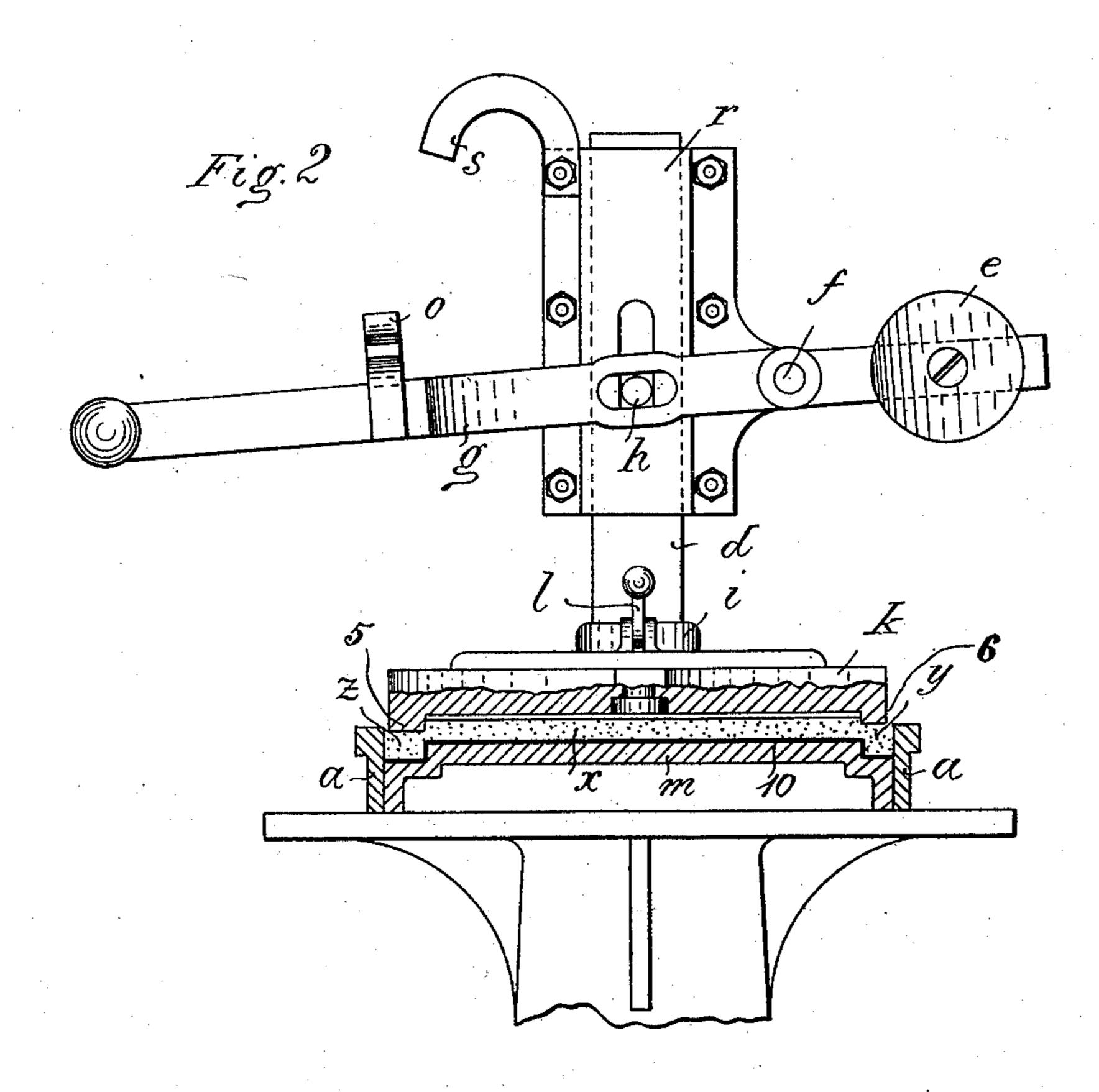
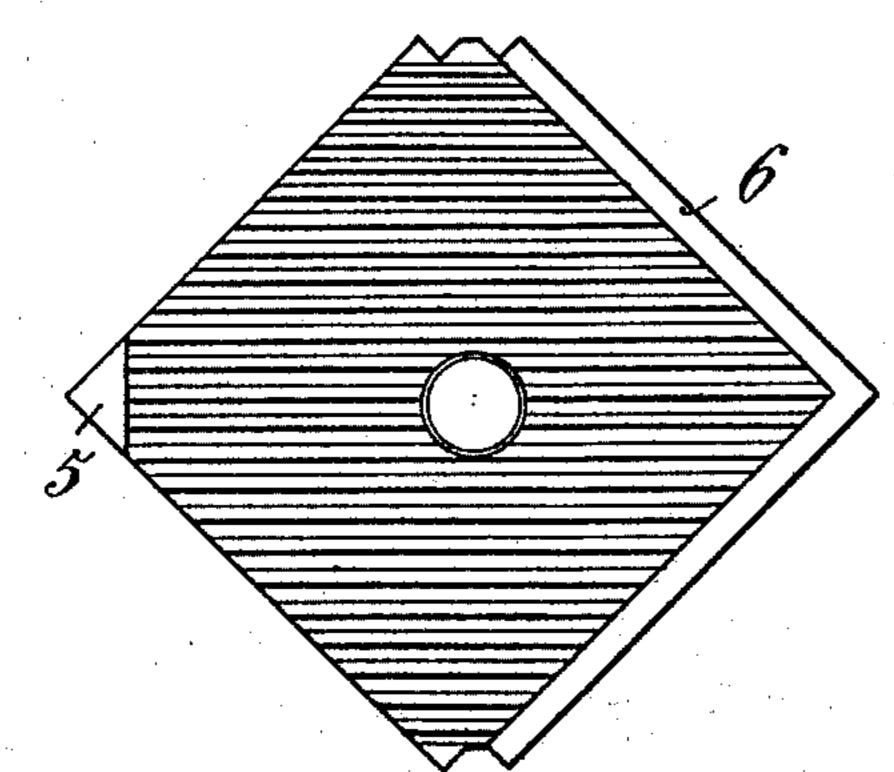


Fig. 3



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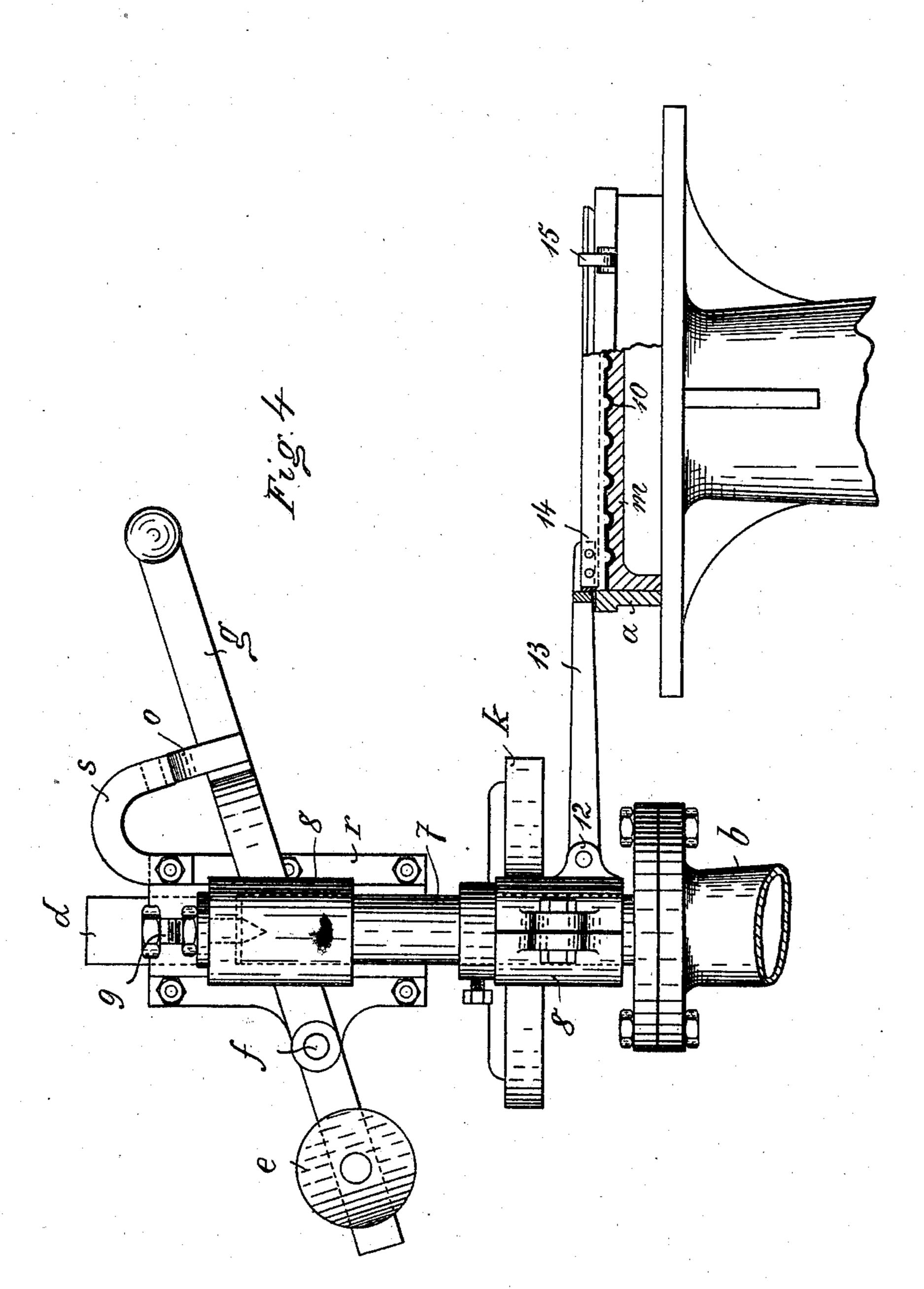
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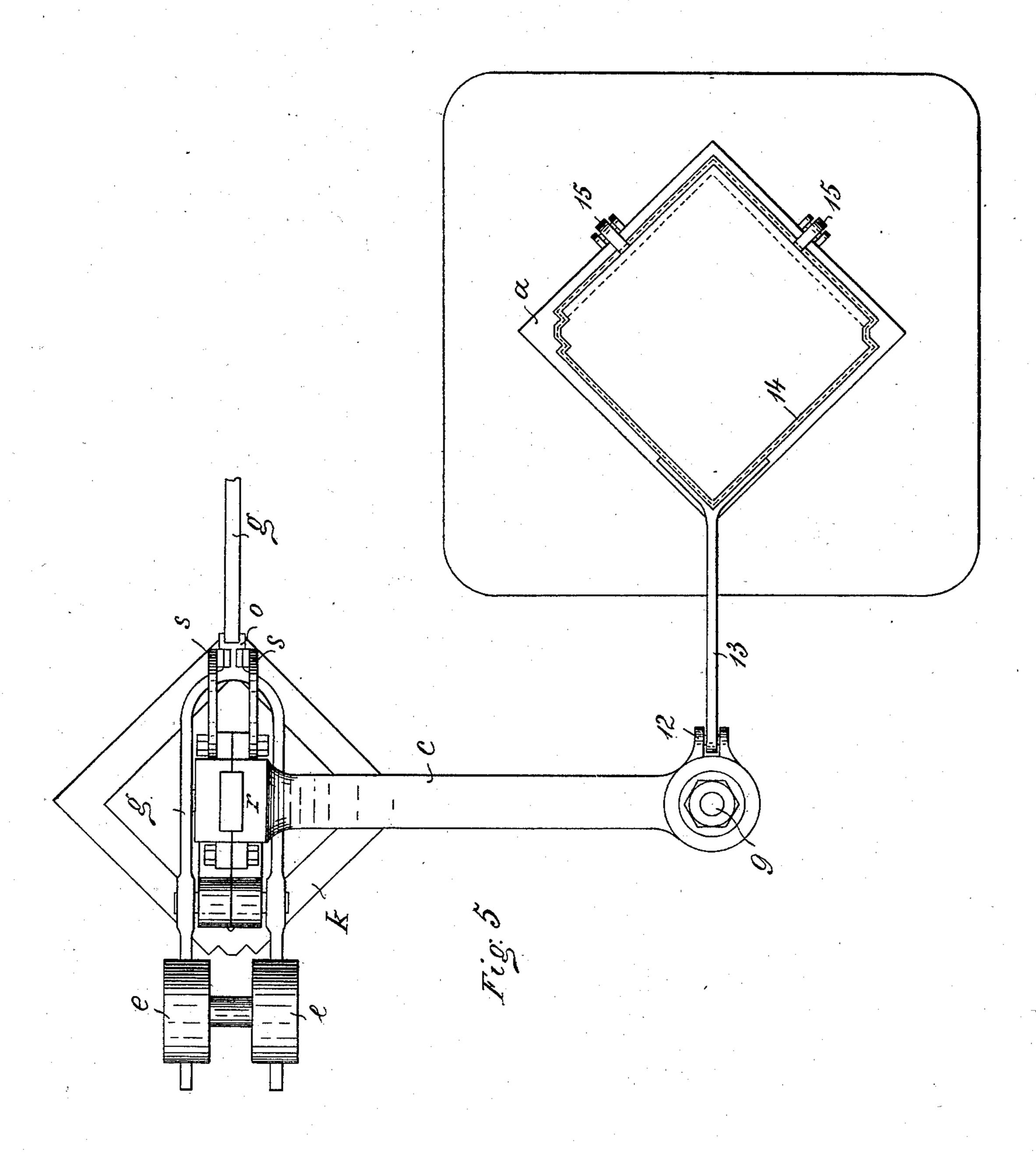
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Hitnesses. Harry H. Thought. Horbort Badley. Inventor Abraham Weil By Knight Bros attys:

# United States Patent Office.

ABRAHAM WEIL, OF STEINHEIM, GERMANY.

#### TILE-MACHINE.

SPECIFICATION forming part of Letters Patent No. 647,431, dated April 10, 1900.

Application filed October 27, 1898. Serial No. 694,732. (No model.)

To all whom it may concern:

Be it known that I, ABRAHAM WEIL, manufacturer, a subject of the Emperor of Germany, and a resident of Steinheim, Westphalia, Empire of Germany, have invented certain new and useful Improvements in Tile-Machines, of which the following is a specification.

This invention has for its object a device for ramming down the cement material in the manufacture of cement roofing-tiles; but before the cement material can be rammed down it must be evenly spread or distributed on the molding-plate, and this can also be effected

by this apparatus. Two different forms of construction of this arrangement are shown in the accompanying drawings, in which—

Figure 1 is an elevation, partly in section, of the first form of construction; and Fig. 2, 20 afront view of same with the press depressed, a portion of the apparatus being removed. Fig. 3 is an under view of the press stamp. Fig. 4 is an elevation, partly in section, of the second form of construction; and Fig. 5, a plan view of the same.

An arm c is arranged to swing on a vertical shaft 7, supported on a stand b, in the headpiece r of which arm the guide-bar d of the press-stamp is mounted and adapted to be moved up and down by means of a forked lever g, pivoting or swinging on a pin f, supported on the headpiece r. For this object the guide-bar d is connected with the lever g by means of a bolt or pin h, fixed on the guide-sar and engaging in slots in said lever.

In the form of construction shown in Figs. 1 to 3 the lower end of the guide-bar d is provided with a fixed plate i and a revoluble press-plate k. On the latter a stop-lever l is 40 pivotally arranged, which lever holds both plates together by engaging the fixed plate. The under side of the plate k, as shown in Figs. 1 to 3, is grooved or ribbed and also provided with overhanging projections 5 and 45 6. These overhanging projections serve, as shown in Fig. 2, for pressing or stamping the material to a greater extent at the place where the suspension part z and the lower or under covering lip or joint y of the cement 50 roofing-tile x are formed, because at these places the unformed material lies thicker. The forked lever g embraces the headpiece of

the arm, is provided with counterweights e, and carries at its front end a headed catch o, which in the highest position of the plate k 55 engages in a double snap-spring s, mounted on the headpiece r, whereby the press-stamp, formed of the parts d, i, and k, is retained in its highest position. If it be desired to release the catch from the snap-spring, the lever g is strongly pulled down. In order to enable the arm c to be moved or adjusted in height, the upper socket or eye 8 is provided with a screw 9, which bears on the top of the shaft 7, so that this socket acts as a suspen- 65 sion-bearing.

The mode of action of the device shown in Figs. 1 to 3 is as follows: The cement material is scattered on the molding-plate 10, lying on a molding-block m, mounted in a bed- 70frame a, and the press-plate k is lowered so far by means of the lever g that it somewhat presses on the cement material. By then depressing the outer end of the stop-lever l the press-plate k is released from the fixed plate 75 i and is then turned once around, so that the cement material is equally distributed by means of the grooves in the under face of the press-plate. When this has been done, the pressing-stamp k i d is several times moved 80 up and down until the cement roofing-tile xis formed and rammed firm, and then the lever g is raised so high that the catch o engages in the snap-spring s. Owing to the press-plate k being provided with grooves the 85 cement material is also equally rammed firm.

The form of construction shown in Figs. 4 and 5 differs from the first form of construction in that the equal distribution of the material is not effected by means of the press- 90 plate k, but by means of another suitable arrangement. In this the press-plate k is rigidly connected with the guide-bar d, and an arm 13 is arranged on the lower socket or eye 8 at about ninety degrees to the arm c, which 95 arm 13 is pivoted on hinge 12 and carries a frame 14. The lower edge of this frame is beveled in order that it may partially engage in the bed-frame a. When this form of construction is to be used, the arm c is swung 100 into the position shown in Figs. 4 and 5, the frame 14 is clapped down, as shown, on the bed-frame a, and both connected by grippers 15, mounted on the bed-frame a. The cement

material is then scattered on the moldingplate 10 and spread smoothly over the same and the surplus amount carried away over the frame 14. When this has been done, the frame 14 is raised, the arm c is swung into the position shown in Fig. 1, and the cement material is rammed firm, as in the first form of construction.

construction. · I declare that what I claim is— 1. A tile-machine comprising a laterallyswinging arm having a headpiece provided with vertical slots, a guide-bar adapted to slide in the headpiece, a press-plate secured to the guide-bar, a forked lever embracing 15 the head-piece and having its arms formed with longitudinal slots, and pivoted to the headpiece, the cross-pin extending through the guide-bar and through the slots in the headpiece and in the arms, counterweights 20 secured on the rear end of the arms, a headed catch secured to the forward arm of the lever, and the double snap-spring with which the headed catch engages, mounted on the headpiece; substantially as described.

2. A tile-machine comprising an arm, a slid-25 ingguide-bar working in the arm, a fixed plate secured to the guide-bar, a revoluble pressplate having a lever for engaging the fixed plate and mounted on the guide-bar beneath the fixed plate, a lever pivoted to the arm, 30 and means for connecting the guide-bar with the lever; substantially as described.

3. A tile-machine comprising an arm, a sliding guide-bar working in the arm, a fixed plate secured to the guide-bar, a revoluble pressplate formed with a grooved face and with depending projections, and mounted on the guide-bar beneath the fixed plate, a lever pivoted to the arm, and means for connecting the guide-bar with the lever; substantially as 40 described.

The foregoing specification signed at Berlin, Germany, this 13th day of October, 1898.

ABRAHAM WEIL.

In presence of—W. HAUPT, C. H. DAY.