

No. 850,271.

PATENTED APR. 16, 1907.

G. B. STAPLES.
TILE.

APPLICATION FILED NOV. 28, 1905.

Fig. 1.

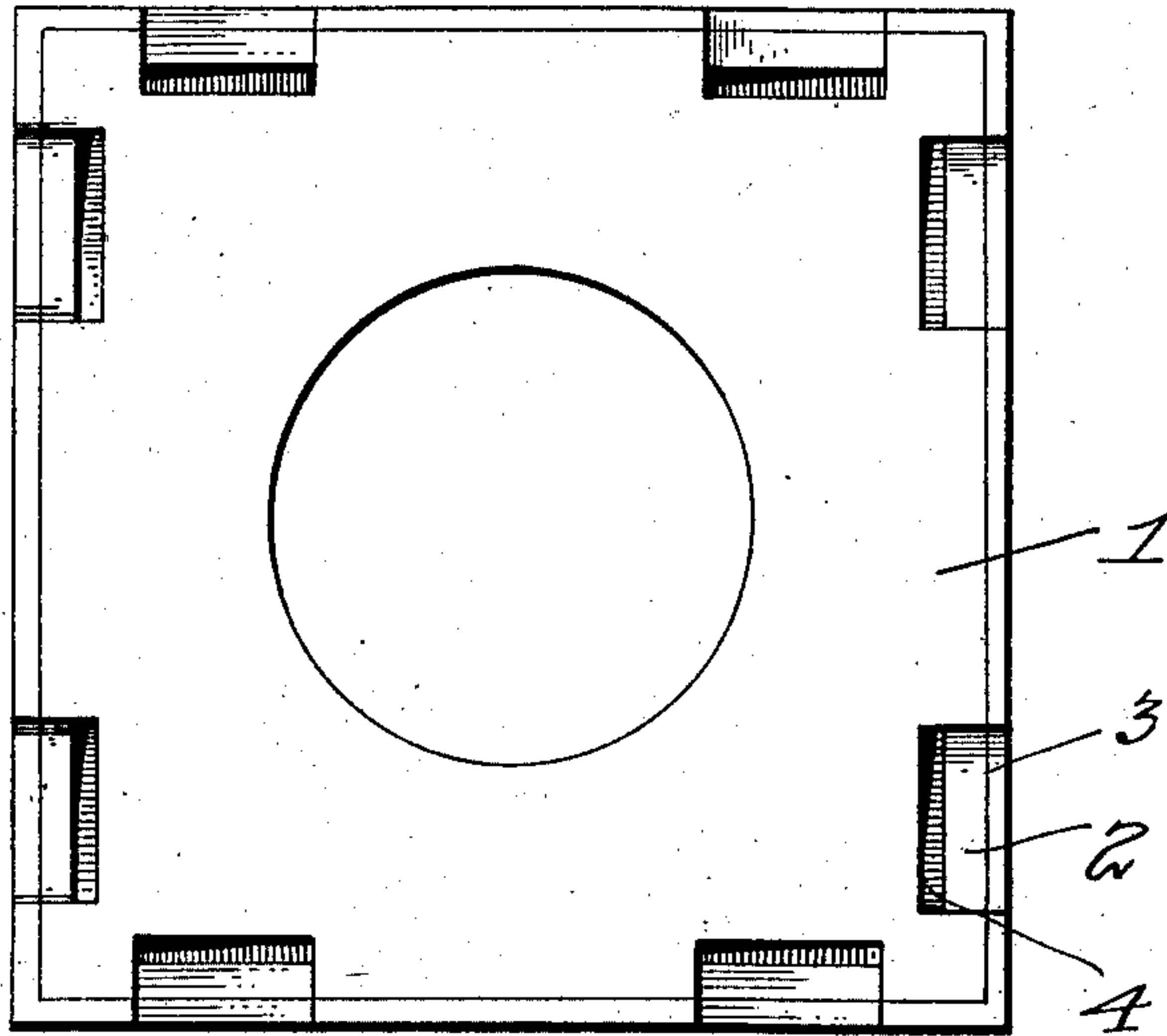


Fig. 2.

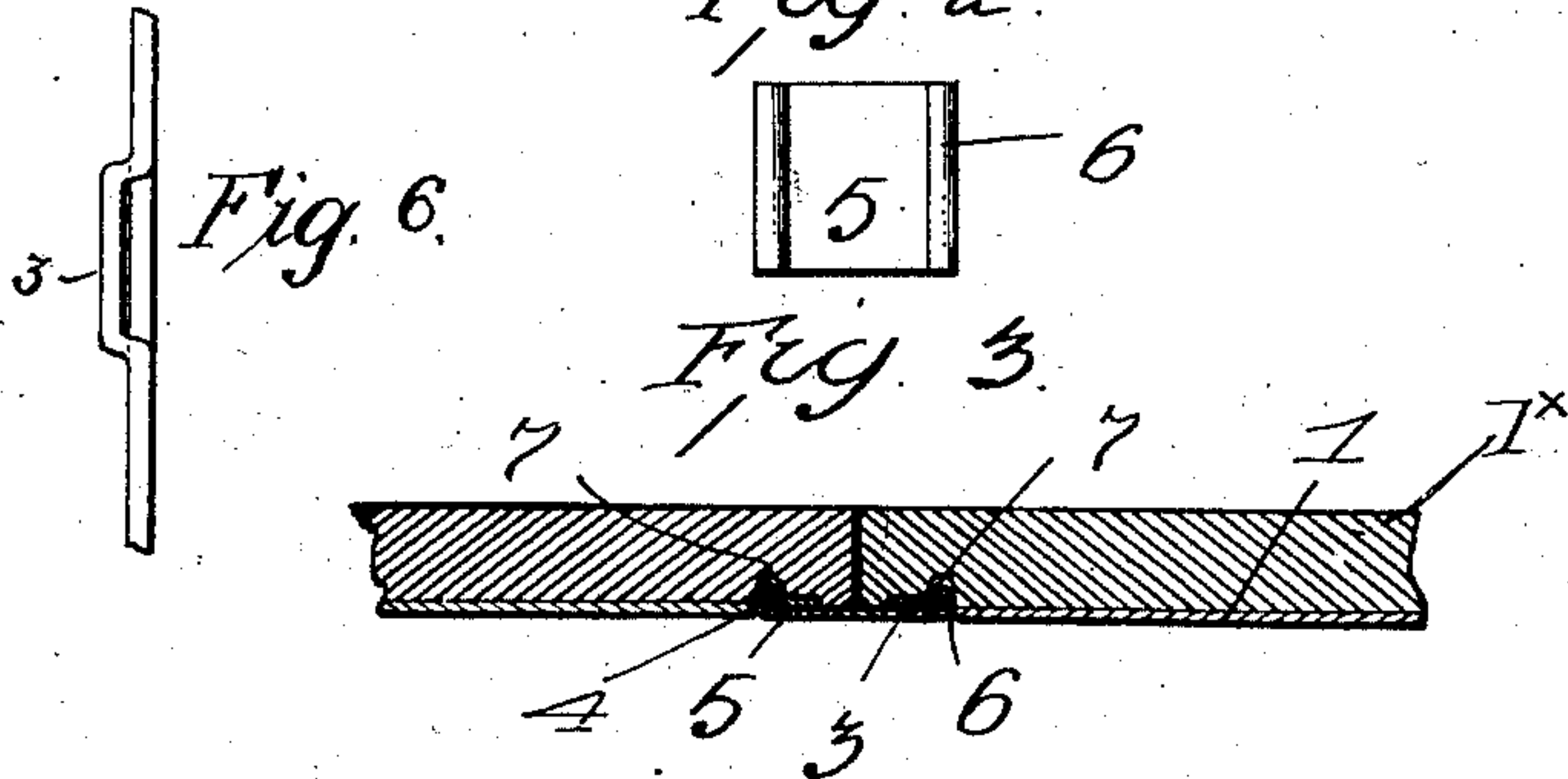


Fig. 4.

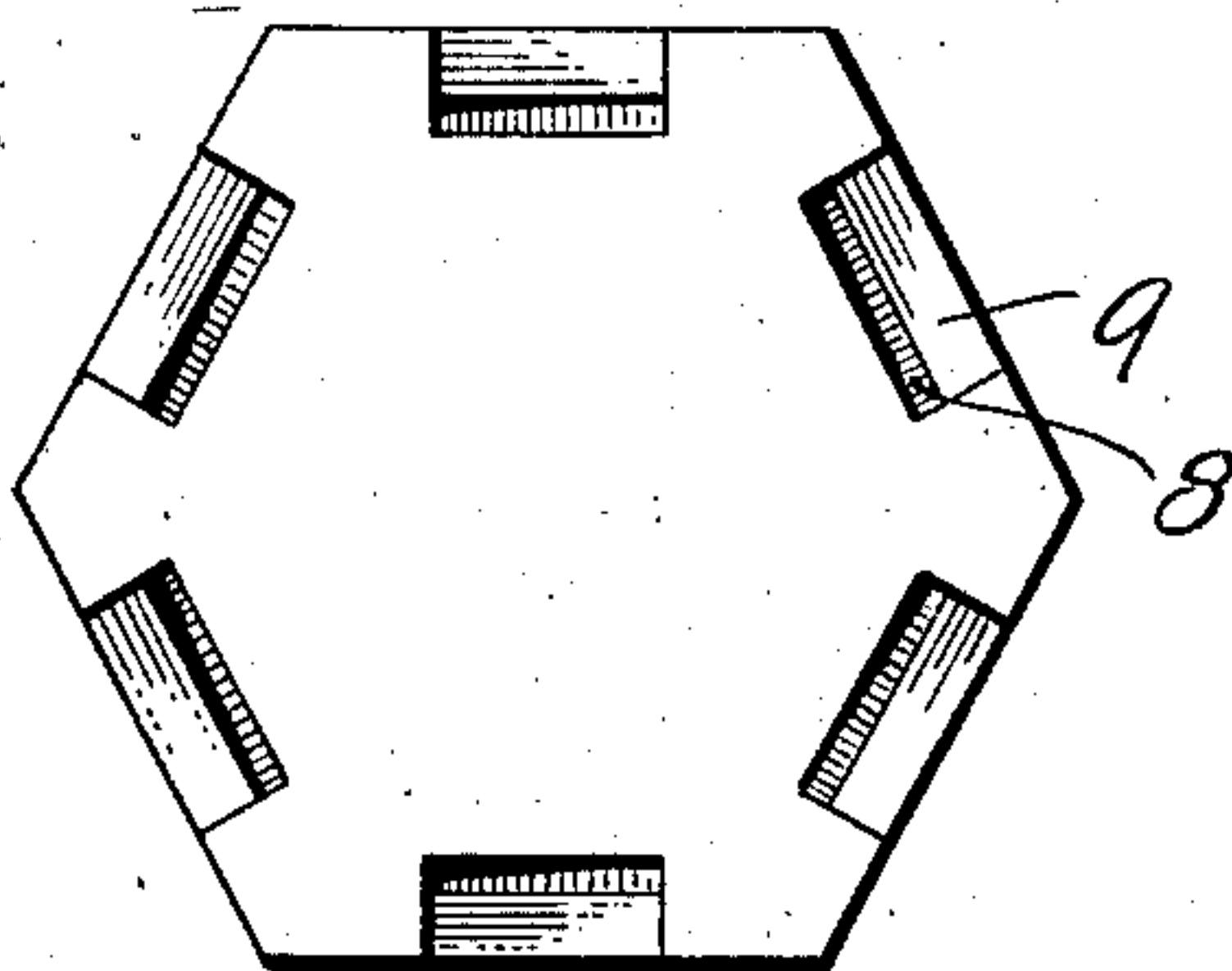
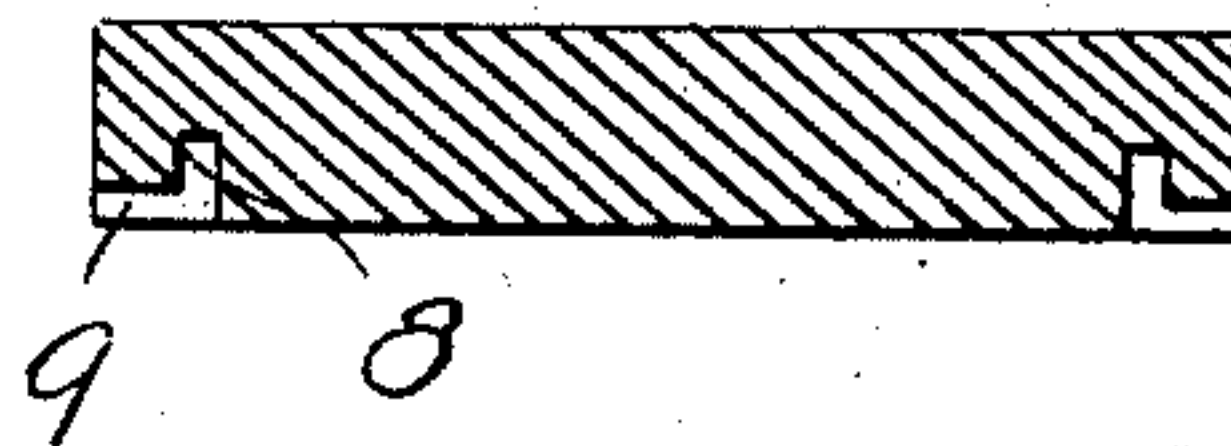


Fig. 5.



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UNITED STATES PATENT OFFICE.

GEORGE B. STAPLES, OF PHILADELPHIA, PENNSYLVANIA.

TILE.

No. 850,271.

Specification of Letters Patent.

Patented April 16, 1907.

Original application filed May 16, 1905, Serial No. 260,663. Divided and this application filed November 28, 1905. Serial No. 289,517.

To all whom it may concern:

Be it known that I, GEORGE B. STAPLES, a citizen of the United States, residing at Philadelphia, Pennsylvania, have invented certain new and useful Improvements in Tiles, of which the following is a specification.

My invention relates to tiles, and the present case is in part a division of that filed by me May 16, 1905, Serial No. 260,663. In said application I disclose a tile having a facing material carried by a foundation-plate which at certain points on its margin is indented with a portion of the metal bridging, said indentation leaving an opening formed through the metal adjacent to said bridge to receive a locking-tongue to connect the tile to an adjacent tile.

My improvement consists in the use of a clip having projecting tongues or studs adapted to fit into the openings in the foundation-plates, the said tongues being of a springy nature to fit into place and to hold the tiles together by frictional contact.

The invention is disclosed in the accompanying drawings, in which—

Figure 1 is a bottom plan view of a tile provided with the openings above mentioned. Fig. 2 is a plan view of one of the clips, and Fig. 3 is a sectional view of portions of adjacent tiles with the clip for holding them together. Figs. 4 and 5 are views of a modification. Fig. 6 is a detail view showing the edge of the foundation-plate and illustrating the indentation and bridge thereat.

In the drawings, 1 indicates the foundation-plate of the tile, which is preferably made of metal and which carries thereon in any suitable manner the non-slipping facing material 1^x, composed of a composition of rubber or any other suitable material. The foundation-plate is indented at its margin, as indicated at 2, the indentation being bridged at 3 by a raised strip or portion of the foundation-plate, and within this bridged portion the indentation leaves an elongated opening 4 to receive the locking-tongue designed to hold the tile to the adjacent tile.

The tiles are held together by means of a clip 5, having projections or tongues 6 formed, preferably, by rolling over the metal to form a rounded lip or projection which when pressed into the elongated opening 4 will remain therein to resist any tendency to withdraw under ordinary use. The edges of the tiles are brought close together, and the clips extend, as shown in Fig. 3, beneath

the joint of adjacent tiles, with their tongues engaging the elongated openings. These tongues extend up into recesses 7 formed in the facing material, and they have a certain amount of resilience to enable them to be sprung into place.

An important advantage of my invention is that any tile may be removed for repairs or for replacing without removing the adjacent tiles, each of the tiles being provided with the said openings and being connected to the adjacent tiles by the clips, from which they are detachable.

Instead of carrying out the invention in connection with a tile having a metal foundation and a non-slipping or other facing I may, as in Figs. 4 and 5, form the recesses directly in the composition material and dispense entirely with the foundation-plate. This composition material being to a certain degree resilient will assist in holding the tongues of the clips in firm contact therewith, and said tongues may be made as before.

In the drawings, the recesses in the composition are shown at 8 and the indents leading to the said recesses are shown at 9. The resilient quality of the composition material will aid in holding the tongues in the recesses, whether the tile is made with a metal foundation or not.

I claim as my invention—

1. In combination, a pair of recessed tiles, foundation-plates secured to the tiles and means independent of the tiles extending beneath the marginal portion of the foundation-plates and engaging the recesses to hold the tiles together, each tile being removable upwardly, independently of the adjacent tile.

2. In combination, a pair of tiles having metal foundations and resilient facing material thereon, and means for securing the tiles together having its terminal end sprung into recesses formed in the foundations back from the edge thereon and adapted to resist upward displacement until sufficient force is applied to the tile, substantially as described.

3. In combination, a tile of resilient material having a recess on its under side back from the edge and means for securing the tile to an adjacent tile comprising a member extending between them having an upwardly-projecting portion with its terminal end bent over and downwardly forming a shoulder below which the resilient wall of the recess may grip, substantially as described.

4. In combination, a tile of resilient material having a recess on its under side back from the edge and means for securing the tile to an adjacent tile comprising a tongue extending into the recess and having a laterally-projecting terminal portion to engage the wall of the recess, substantially as described.

5. In combination a tile having a recess on its under side back from the edge and means for securing the tile to an adjacent tile comprising a tongue extending into the recess, said tongue having a laterally-projecting terminal portion extending from one wall of the recess to the other substantially as described.

6. In combination with tiles recessed on their under sides, resilient means for holding said recessed tiles together and having terminal projections adapted to be sprung into

the said recesses, said recessed tiles resting over the said projections substantially as described.

7. In combination with a tile recessed on its under side, back from the edge means for securing the tile to an adjacent tile comprising a tongue extending into the recess and having a lateral resilient terminal projection.

8. In combination, tiles composed of resilient material having recesses and clips independent of each other having a main portion extending across the joint between the tiles with terminal projections locked in the said recesses, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

GEORGE B. STAPLES.

Witnesses:

J. WALTER DOUGLASS,
THOMAS M. SMITH.