

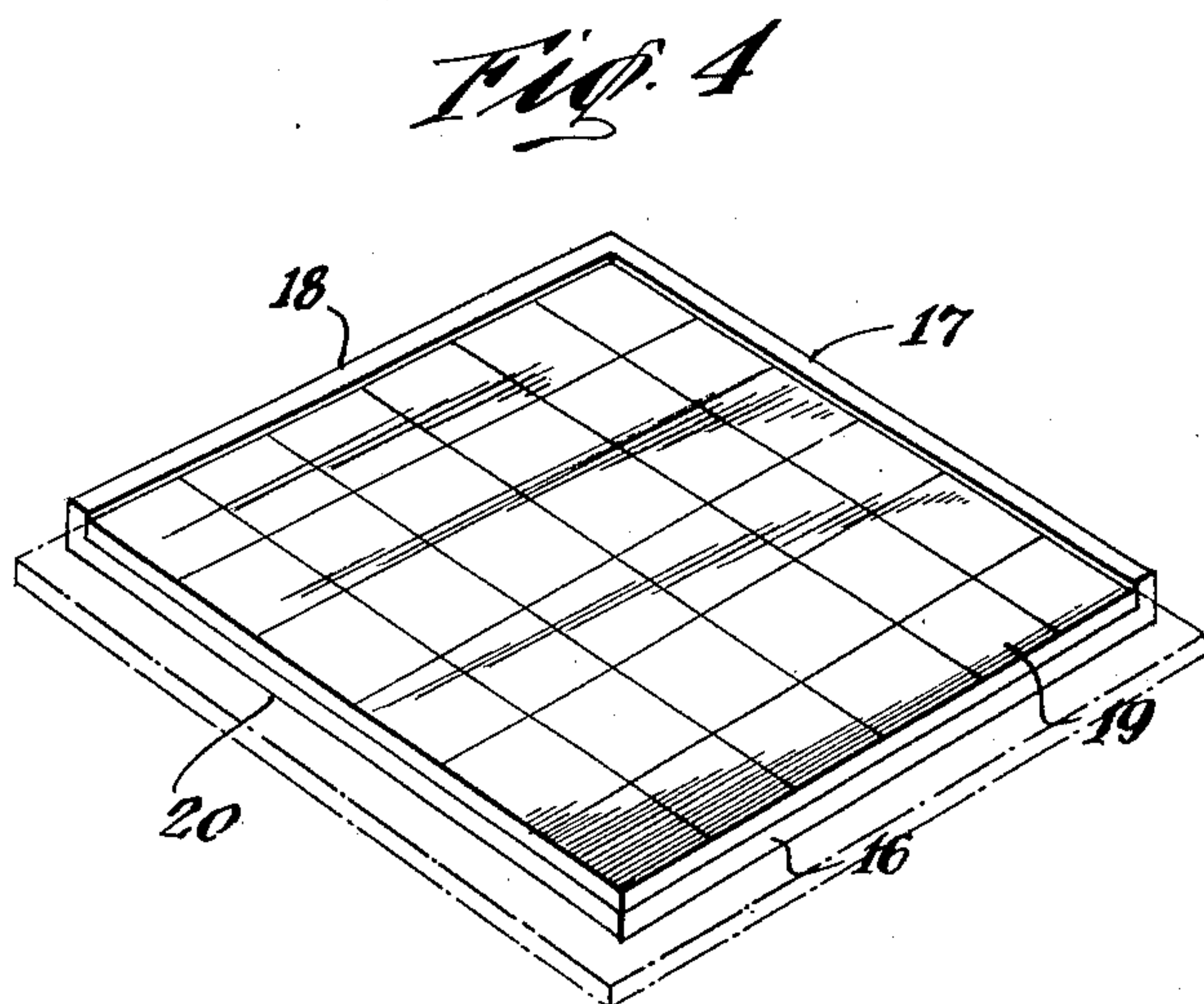
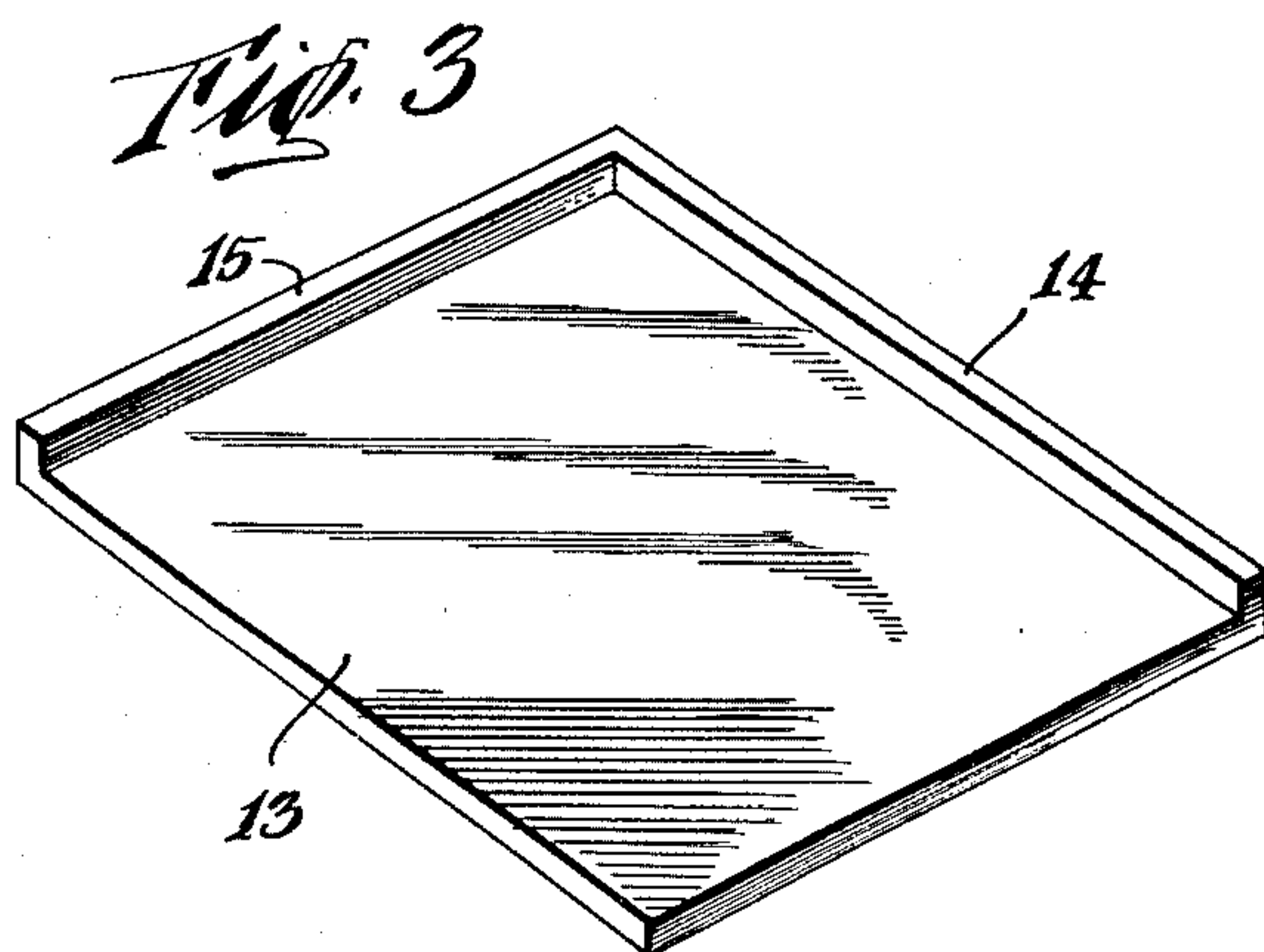
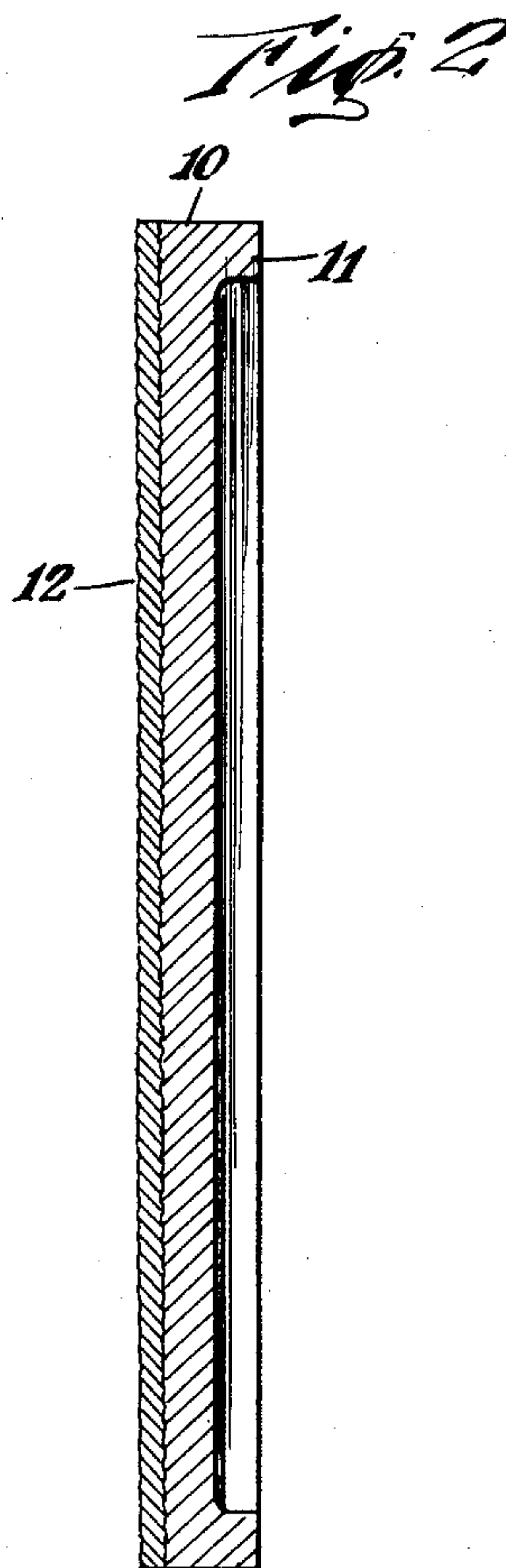
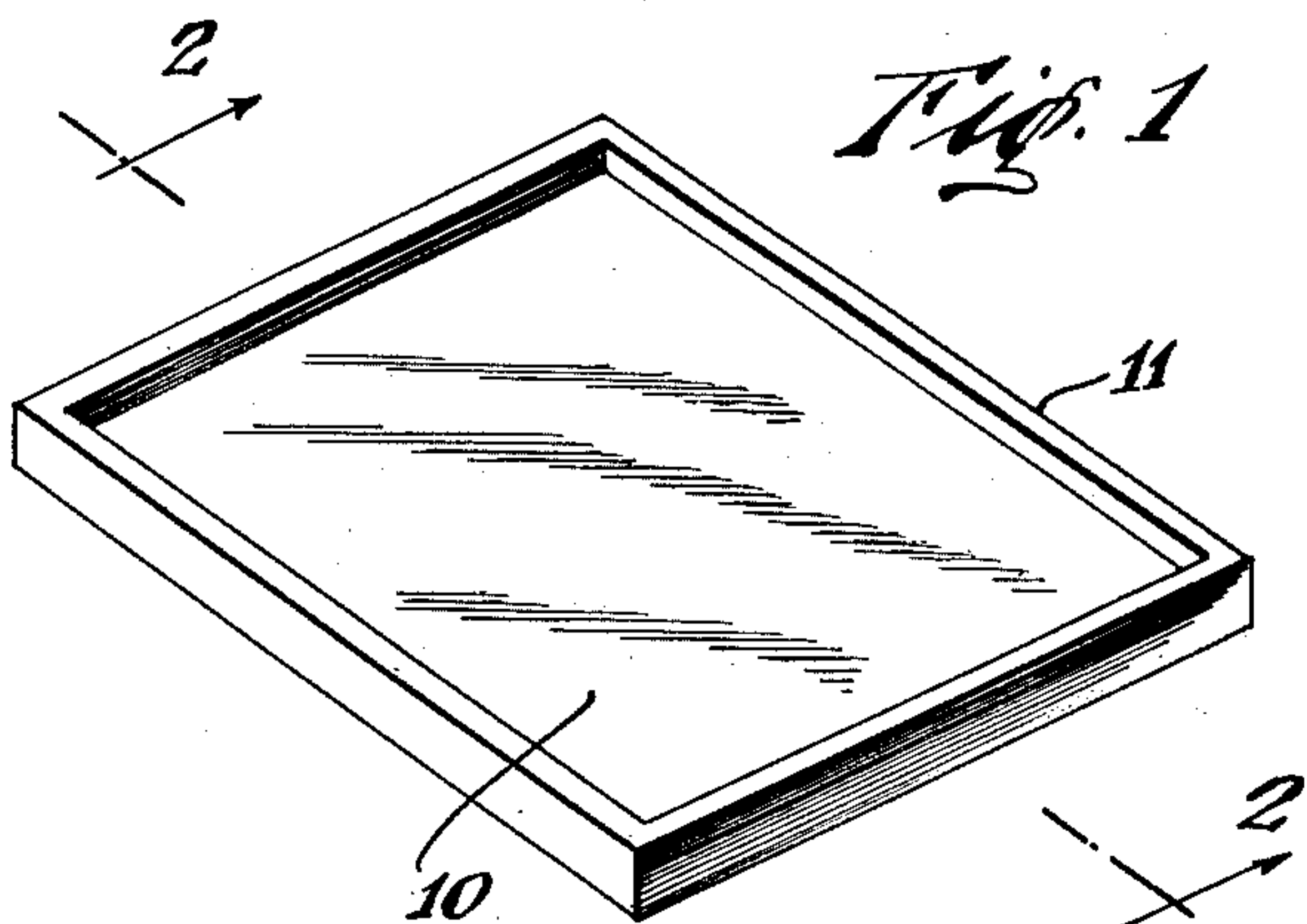
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J. LESSNIG

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ACIDPROOF TILE

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UNITED STATES PATENT OFFICE

1,961,613

ACID-PROOF TILE

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by mesne assignments, of one-third to Wolfgang Schlaffer, Forest Hills, N. Y., one-third to Gerhard Heuser, Middle Village, N. Y., and one-third to Laurence Löffler, Garden City, N. Y.

Application May 12, 1933, Serial No. 670,677

2 Claims. (Cl. 72—18)

This invention relates to improvements in acid-proof linings for containers and it is the principal object of my invention to provide an acid-proof tile made of hard pitch-like bituminous material particularly made of hard coal tar pitch, especially well adapted for the inner lining of acid-proof containers.

The plates or tiles heretofore used for this purpose presented the difficulty that the seams between two adjoining plates had to be closed with the material of which the plates or tiles were made, however this presented many difficulties owing to the high melting point of the material.

It is the object of the present invention to avoid or overcome these difficulties by means of a plate which, while made of the above materials is provided at its outer upper margin with a raised ridge to provide sufficient material for the closing of the seams by means of a torch or seam iron for the purpose of providing an absolutely seamless surface.

If this tile or plate is to be used on iron or wooden walls, the rear face of the plate or tile is only slightly rifled or corrugated for the purpose of binding the tiles to the wall to be tiled by means of a soft pitch-like material. If however the plates or tiles are to be used for the lining of masonry or reinforced concrete walls by means of a cement, the rear face of the plate is provided with a coarse material such for instance as pebbles.

The tiles however can also be lined on their rear faces with a smooth or rifled bituminous cardboard in order to preserve the form of the plate during transportation and in order to allow a nailing of the plate to a suitable support.

According to my invention cement plates or slabs may be formed upon the bituminous plates in which case the raised margin will also present material for filling the seams.

A further object of my invention is the provision of tiles with a prepared gauze or cardboard angularly projecting from the plate or tile and enabling a nailing of the tile to a support or for insulating purposes.

These and other objects of my invention and advantages thereof will become more fully known as the description thereof proceeds and will then be specifically defined in the appended claims.

In the accompanying drawing

Fig. 1 is a perspective view of a plate or tile with raised margins constructed according to my invention,

Fig. 2 is a section on line 2—2 of Figure 1,

Fig. 3 is a perspective view of a modified form of tile, and

Fig. 4 is a perspective view of a tile with raised margins having a plurality of small mosaic tiles formed therein.

As illustrated, the tile 10 of suitable material preferably hard coal tar pitch has its upper margin 11 raised on all four sides thereof and is adapted for the lining of a wall of any container for acids or the like. As indicated at 12, with this tile a rifled or corrugated bituminous cardboard base may be used.

The tile 13 illustrated in Figure 3 has marginal ridges formed at its upper face on two sides only, as indicated at 14 and 15.

As shown in Figure 4, the tile 16 has also on its upper face two raised marginal ridges 17 and 18 on two sides of the tile. Into the spaces limited by the ridges small mosaic tiles 19 are arranged preferably by pouring cement onto the tiles. As shown in broken lines in Figure 4, an insulating tab 20 is projecting from the tile which may also be used for the purpose of nailing the plates or tiles to a suitable support, while at the same time forming an insulation for the seam between two adjoining tiles.

The operation of the device will be entirely clear from the above description by reference to the drawing and it will be evident, that inner walls of acid containers lined with such tiles will present, after the seams have been covered by the marginal material, an uninterrupted acid-proof surface.

It will be understood that I have shown and described the preferred forms of my invention only as a few examples of the many possible ways to practically construct the same and that I may make such changes in the construction of my tiles as come within the scope of the appended claims without departure from the spirit of my invention and the principles involved.

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

1. An acid-proof tile for containers comprising a body of hard coal tar pitch, raised mar-

ginal ridges, a plurality of mosaic cement tiles in the space limited by said ridges, and a means projecting from the tile for nailing the same to a support and for insulating the seams between two adjoining tiles. 2. An acid-proof tile for lining of containers	comprising a body of hard coal tar pitch, a raised margin for said tile, and a rifled or corrugated bituminous cardboard base, and mosaic tiles provided at the upper face of said tile within the space limited by said ridges. JOHANN LESSNIG.	80
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