March 29, 1932. M. J. SHERRY 1,851,452

TRELLIS FOR BUILDING CONSTRUCTION

Filed Aug. 28, 1930

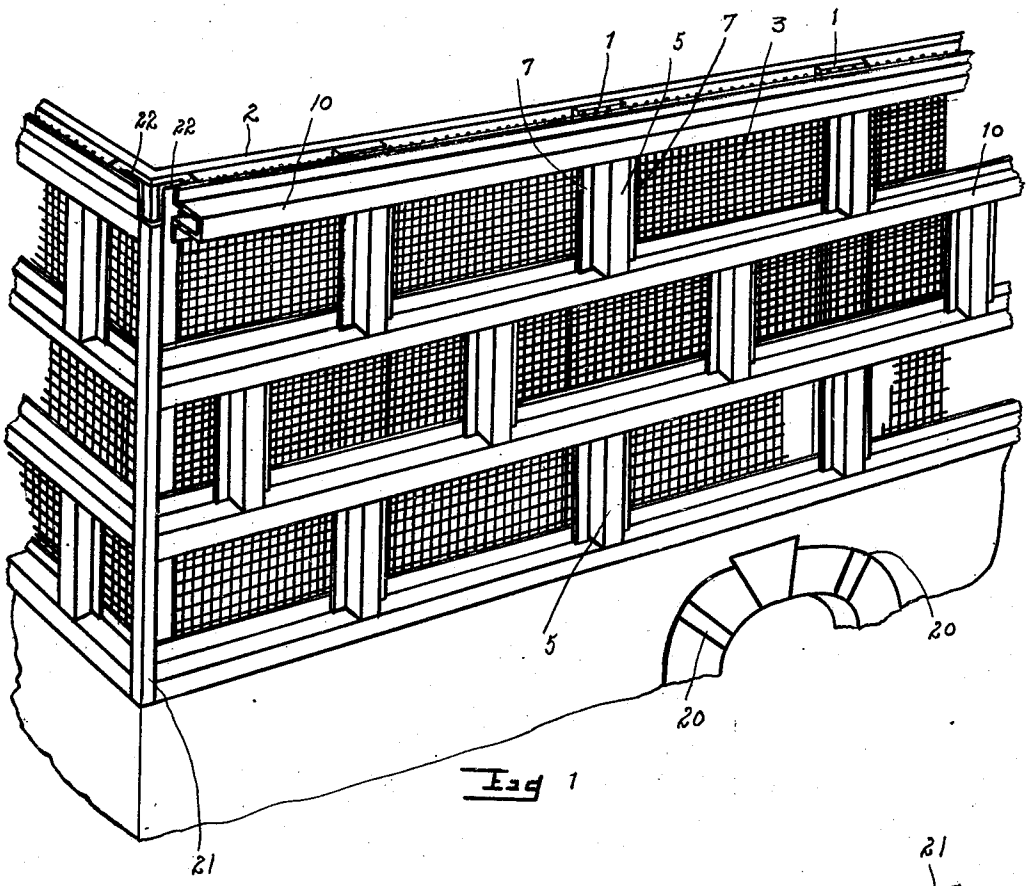

Fig 1

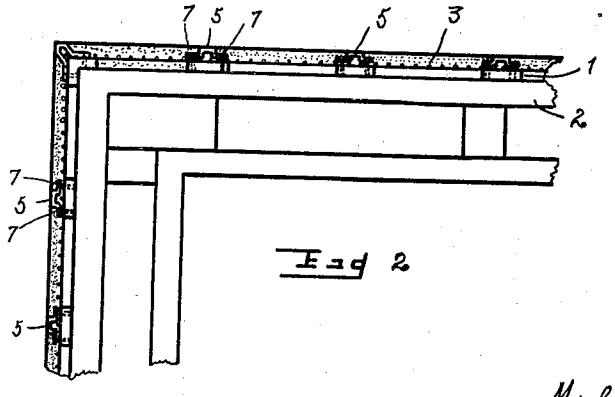

Fig 2

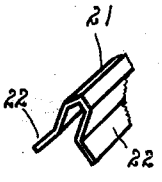

Fig 3

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UNITED STATES PATENT OFFICE

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TRELLIS FOR BUILDING CONSTRUCTION

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My invention relates to a trellis for building construction and process for using same, and I declare the following to be a full, clear, concise and exact description thereof sufficient to enable anyone skilled in the art to which it appertains to make and use the same.

The object of the invention is to provide a trellis for use more particularly in building construction, either on the outside when covering the outer walls with cement, mortar, plaster, stucco, etc., or on the partition walls within the building to prevent said cement, mortar, et cetera, from cracking and thereby leaving a gap in the wall.

The object will be understood by referring to the drawings, in which—

Fig. 1 is a perspective view of the device showing parts broken away to expose the trellis structure and one of the channel irons used in the structure in section.

Fig. 2 is a horizontal section of a wall using the trellis structure.

Fig. 3 is a fragmentary view showing a perspective of a corner piece employed.

Referring more particularly to the drawings, the device consists of nailing lath 1 to the clapboards or outside boards 2 of the house, if it is desired to cover the exterior of the building with cement, stucco, etc. Said laths 1 are disposed in vertical position and at suitable intervals apart. A wire mesh 3 is laid then against the outside surfaces of lath 1 and nailed thereto, whereby to form a porous support for the cement, mortar or other material used in the construction of the wall. Channel strips 5 made of copper or other soft metal having flanges 7, 7 are nailed to lath 1 outside of wire mesh 3. Certain of the copper strips such as 10 are arranged in parallel horizontal rows. The vertically disposed copper channel strips 5 are made in short lengths and disposed between horizontal strips 10 at suitable intervals to allow for a certain amount of yield of strips 10. The vertically disposed strips 5 in the next succeeding row are offset from those above, or arranged so as to occupy the intervening spaces between each two of the row above. This offset arrangement of strips 5 is carried through the entire structure of the wall and is designed to aid in allowing for a predetermined amount of yield between horizontal strips 10 to anticipate any contraction or expansion of the cement. Furthermore, the short vertical channel strips 5 will allow for a lateral yield.

After the frame consisting of the lath 1, wire mesh 3, horizontal copper channel strips 10 and vertical strips 5 have been laid against the outside wall of the building or inside partition wall, the cement, stucco or other like material is laid thereon, whereby to fill up the entire space from the boards 2 to the outer surface of copper strips 10 and 5 leaving only the outer space of said strips 10 and 5 exposed, whereby to give a block appearance representing stones.

A window can be formed by using short copper channel strips 20 similar to strips 10 and 5 and disposing them in a radial manner to form the arch of the window.

A channel piece 21 is used at the corners of the building and fastened to the adjacent lath 1, 1 located at said corner. The corner channel piece 21 has its flanges 22, 22 bent at an angle somewhat greater than a right angle, whereby they will lie flush with the corner laths 1 and can be nailed thereto.

The clapboards 2 of the house are first covered with a waterproof paper before attaching the laths 1 thereto. Waterproof paper will be used to cover the surface of the wall of the building in any event, whether the building is made of clapboards, brick or otherwise.

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

1. In a trellis for building construction, channel members having flanges projecting in opposite direction therefrom, said channel members being disposed in parallel relation to each other, other channel members having flanges disposed in offset relation to each other, whereby to allow for a given amount of yield in said first named channel members, a wire mesh mounted adjacent to said channel members, whereby to aid in holding the building material to said channel members, laths for supporting said channel members, and said channel members being fastened to said

laths by driving nails through the flanges of said channel members.

2. In a trellis for building construction, elongated channel members having flanges formed thereon, said channel members being disposed in parallel relation to each other, other short channel members having flanges formed thereon, said short channel members being disposed to span the space between said elongated channel members, whereby to allow for a given amount of yield, a wire mesh mounted adjacent to said channel members, a composition material applied to said wire mesh between said channel members, laths for supporting said channel members and means for fastening said channel members to said laths.

3. In a trellis for building construction, elongated channel members having flanges projecting in opposite directions therefrom, said channel members being disposed in parallel relation to each other, other short length channel members having flanges disposed in offset relation to each other, said second named channel members disposed between said first named channel members at suitable intervals and being offset with relation to each other, whereby to allow for a given amount of yield, laths for supporting said channel members, a wire mesh mounted to said laths and a composition mounted on said wire mesh in the spaces formed by said channel members, whereby to form a wall surface.

In testimony whereof I have affixed my signature.

MICHAEL J. SHERRY.