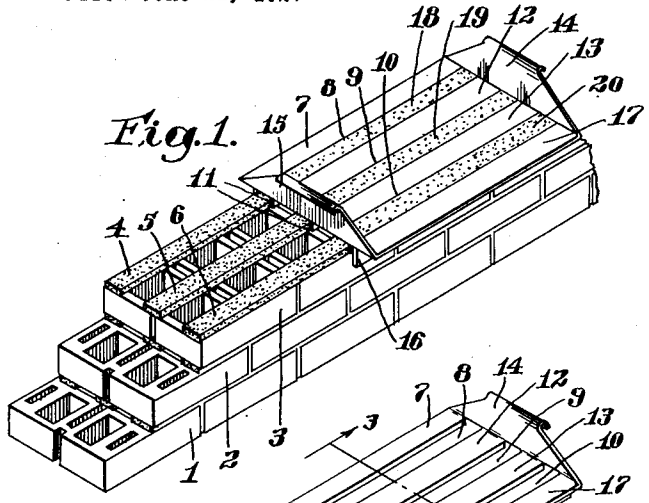
July 31, 1928. 1,679,007

G. D. REAGAN

MORTAR DISTRIBUTOR

Filed June 21, 1927

Fig. 1.



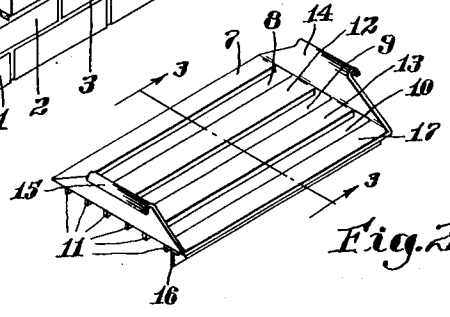


Fig. 2.

Fig. 3.

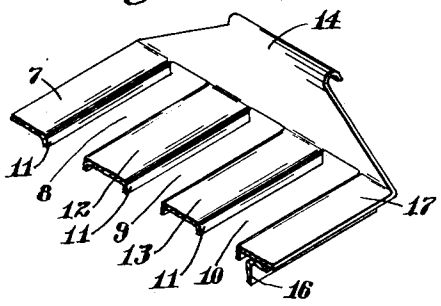


Fig. 4.

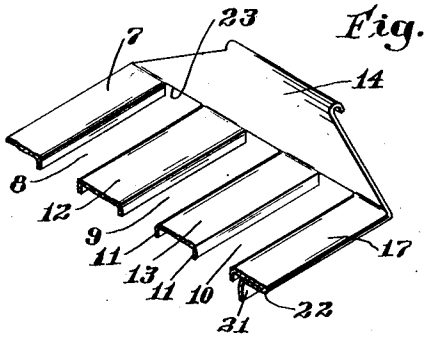


Fig. 5.

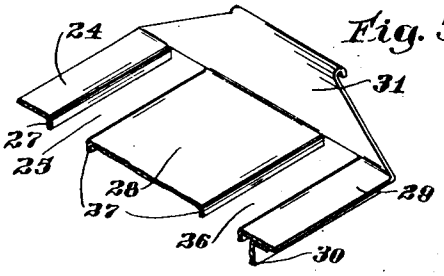
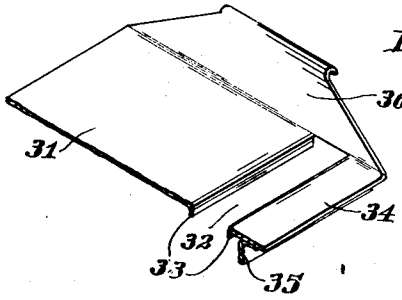


Fig. 6.



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UNITED STATES PATENT OFFICE.

GEORGE D. REAGAN, OF OKLAHOMA CITY, OKLAHOMA.

MORTAR DISTRIBUTOR.

Application filed June 21, 1927. Serial No. 200,464.

My present invention is a novel and improved mortar distributing device, and is particularly adaptable for use in construction of wall structures manufactured from hollow tile or building units.

An important object of the present invention resides in the fact that I provide, in the distributor, means to predetermine the width of a mortar bed to be laid on a wall or portion of a wall.

A further important object of the present invention is the provision of means to guide said distributor along a wall in such manner that the successive mortar beds laid by means of the distributor will not be interrupted or broken.

A further important object consists in the provision of means to predetermine the depth of a mortar bed laid by my novel distributor.

In carrying out the present invention I utilize a plate, preferably of metal, and form in this plate any desired number of channels, usually one, two, three, or four. These channels are formed by cutting the metal of the plate, and turning the metal down adjacent the channels to a predetermined height, depending upon the depth of mortar bed desired to be laid. The channels also are formed to predetermined width. The ends of the plate are turned up and hooked or bent over to form hand holds by means of which the distributor is handled. To the side of the distributor which projects over the edge of the wall I affix a strip or piece of metal, depending below the top of the wall. This metal strip may be riveted or welded to the projecting or overhanging edge, or such edge may be formed of a sufficient width to permit such depending piece to be bent over and formed therefrom. By thus having this strip depending below the top of the wall, the operator, after forming a series of mortar beds by means of the distributor, can slide the distributor along the wall, it being guided by the depending guide strip, and the ends of the channels being open to permit sliding or dragging of the distributor along the wall without lifting it therefrom.

I believe that my mortar distributor, as above briefly described, is novel, and I have therefore claimed the same broadly herein.

Further features of the invention, details of construction, combinations and advantages, will be hereinafter more fully pointed out and claimed.

Referring to the drawings, illustrating preferred embodiments of my present invention,

Fig. 1 is a perspective view of a portion of a wall during the process of construction, illustrating the use of my novel mortar distributor;

Fig. 2 is a perspective view of the distributor itself;

Fig. 3 is a cross sectional view on the line 3—3 of Fig. 2;

Fig. 4 is a cross sectional detail illustrating the depending guide strip made as an integral part of the projecting side of the distributor;

Fig. 5 is a cross sectional detail illustrating a distributor with two channels; and

Fig. 6 is a cross sectional detail illustrating a distributor with but a single channel.

As shown in the drawings, I have illustrated a wall partially constructed, consisting of tiers or rows of tile numbered consecutively 1, 2 and 3. The top tier 3 has had laid thereon the three mortar courses or beds 4, 5 and 6, which have been laid by the use of my novel distributor. Adjacent to the already laid beds 4, 5 and 6 is shown my novel distributor in position to lay three more mortar courses or mortar beds.

The distributor here illustrated consists of a plate of metal 7, in which the channels 8, 9 and 10 have been formed, by cutting the strip or plate 7 longitudinally, and bending downwardly the edges of the channels, as shown at 11, 11, to a predetermined height, the height of these flanges or lips 11 being determined by the depth of mortar bed desired to be laid. The strips 12 and 13 remaining on the plate 7 act as members or means to block the voids between the walls of the tile on which the mortar beds are laid. The ends 14 and 15 of the plate 7 are turned upwardly, and hooked or bent over, to serve as hand holds, to permit the operator or brick layer to drag or slide the distributor along the wall. A depending guide strip or member 16 is secured to the side or edge 17 of the distributor which overhangs or projects over the face of the wall.

The guide strip 16 may be secured to the edge 17 in any suitable or desirable manner, as by riveting, welding, or the like.

When in use, my novel distributor is laid on the upper tier of tile on which the mortar beds are to be formed, with the flanges or ears 11 resting on the tile, and with the guide 16 depending below and abutting against the face of the wall. This insures proper positioning of the distributor, and the channels formed therein, with relation to the portions of the wall on which the mortar beds are to be laid.

In Fig. 1 the distributor is shown in position, mortar having been applied thereto, by a trowel, as is usual, and spread thereover, filling the channels 8, 9 and 10, and forming mortar beds or courses 18, 19 and 20, as continuous portions of the beds 4, 5 and 6. The ends of the channels, or flanges, are left open, as illustrated at 23 in Fig. 4, so that, immediately upon completion of the mortar beds 18, 19 and 20, the operator will grasp the hand holds 14 and 15, and with the guide 16 abutting against the face of the wall, will slide the distributor along the wall until it has reached a position in which new portions of the mortar beds are to be laid.

It will thus be seen that I have devised an extremely simple, and yet an efficient and important article or device for use in this art.

As shown in Fig. 4 the guide 21 may be formed as an integral part of the edge or side 17, being bent over as illustrated at 22, and thence being bent downwardly to form the guide or member 21.

Fig. 5 illustrates a slight modification, wherein the plate 24 has two channels 25 and 26 formed therein, the edges of same being bent downwardly as at 27 to form the supports and depth determining means. The central web 28 will serve to block the voids between the walls of the tile, and prevent the dropping of mortar therein. To the side or edge 29 is applied or affixed a depending guide 30, similar to the guide 16. A hand hold 31, and a similar hand hold at the opposite end, (not shown) are provided.

Fig. 6 illustrates a still further modification wherein the plate 31 has but a single channel 32 formed therein, having its edges 33 bent downwardly and forming supports for the distributor. The edge 34 has the guide 35 in similar manner to the guide heretofore described, and the hand holds 36 are also identical with the hand holds 14 and 31.

The utility and desirability of my present novel mortar distributor will be readily apparent to those skilled in this art, as well as the economy and simplicity of manufacture. By the use of this distributor an operator is enabled to speed up his work to a very great degree, as well as being enabled to lay much neater mortar courses or beds than is possible by mere hand labor. Also, the mortar beds will be much more uniform, since not only the width but the depth of said mortar courses are predetermined.

While I have herein illustrated one, two and three mortar receiving channels in the distributor, it will be appreciated that the number of channels can be varied within any range desired, while still falling within the scope of my invention, the distributor being equally efficient and useful regardless of the number of beds which it is constructed to lay.

The distributor supporting flanges 11, 27 and 33, will, of course, be varied depending upon the depth of mortar bed to be laid on a particular wall structure. The width of the bed will also be varied, by varying the width of channels in the distributor, as desired.

While I have necessarily described my present invention somewhat in detail, it will be appreciated that I may vary the size, shape and arrangement of parts within reasonably wide limits without departing from the spirit of the invention.

My invention is further described and defined in the form of claims as follows:

1. A mortar distributor of the kind described, having a plurality of channels of predetermined width therein, said channels being open at their ends to permit sliding of said distributor along a wall without disturbing the mortar course laid thereby, flanges of predetermined height depending from said distributor at the sides of said channels and adapted to rest on a wall, a guiding flange on the under surface of said distributor and adapted to engage one face of a wall, hand holds at opposite ends of said distributor, and webs between said channels to block the voids in hollow wall structure, said first named flanges, said hand holds and said webs being formed of a single piece of material.

2. A mortar distributor formed of a single piece of material, having a plurality of channels of predetermined width therein, said channels being open at their ends to permit sliding of said distributor along a wall without disturbing the mortar course laid thereby, flanges of predetermined height depending from said distributor at the sides of said channels and adapted to rest on a wall, a guiding flange on the under surface of said distributor and adapted to engage one face of a wall, the ends of said distributor being upturned and hooked at their tops to form hand holds at opposite ends of said distributor, webs between said channels to block the voids in hollow wall structure, and a web at each side of the distributor projecting beyond the sides of the wall, to retain mortar on the distributor.

3. A mortar distributor formed of a single piece of material and having a longitudinal channel therein, said channel being open at its ends to permit sliding of said distributor along a wall without disturbing the mortar course laid thereby, flanges of predetermined height depending from said distributor at the sides of said channel and adapted to rest on a wall, a guiding flange on the under surface of said distributor and adapted to engage one face of a wall, the ends of said distributor being upturned and hooked at their tops to form hand holds at opposite ends of said distributor, a web on one side of said channel to block the rest of the top of the wall and projecting beyond one edge of the wall, and a web at the other side of said channel projecting beyond the other side of the wall.

In testimony whereof, I have signed my name to this specification.

GEORGE D. REAGAN.