C. G. GIROLAMI.

ANCHORING OR SECURING DEVICE.

APPLICATION FILED MAY 9, 1921.

1,428,327. Patented Sept. 5, 1922.

Fig. 1

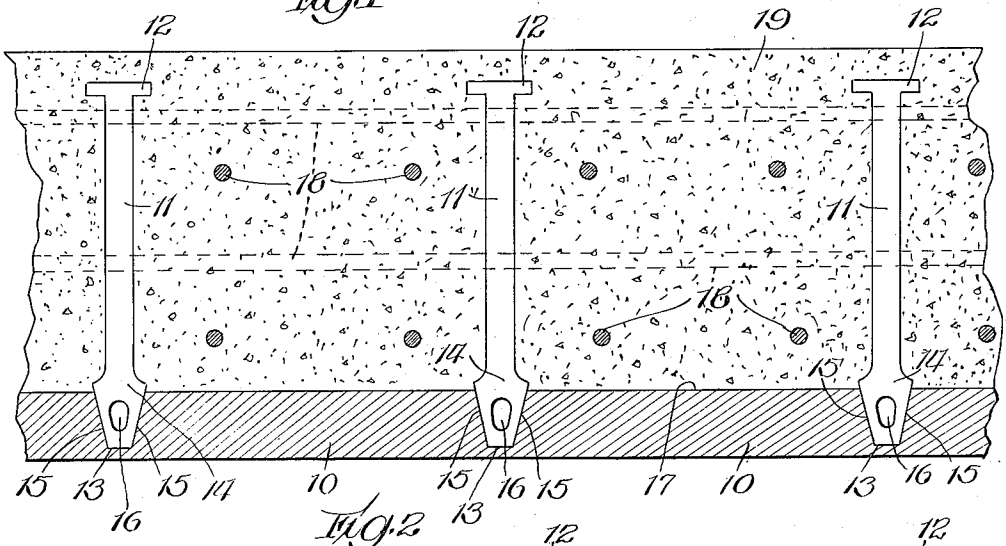


Fig. 2

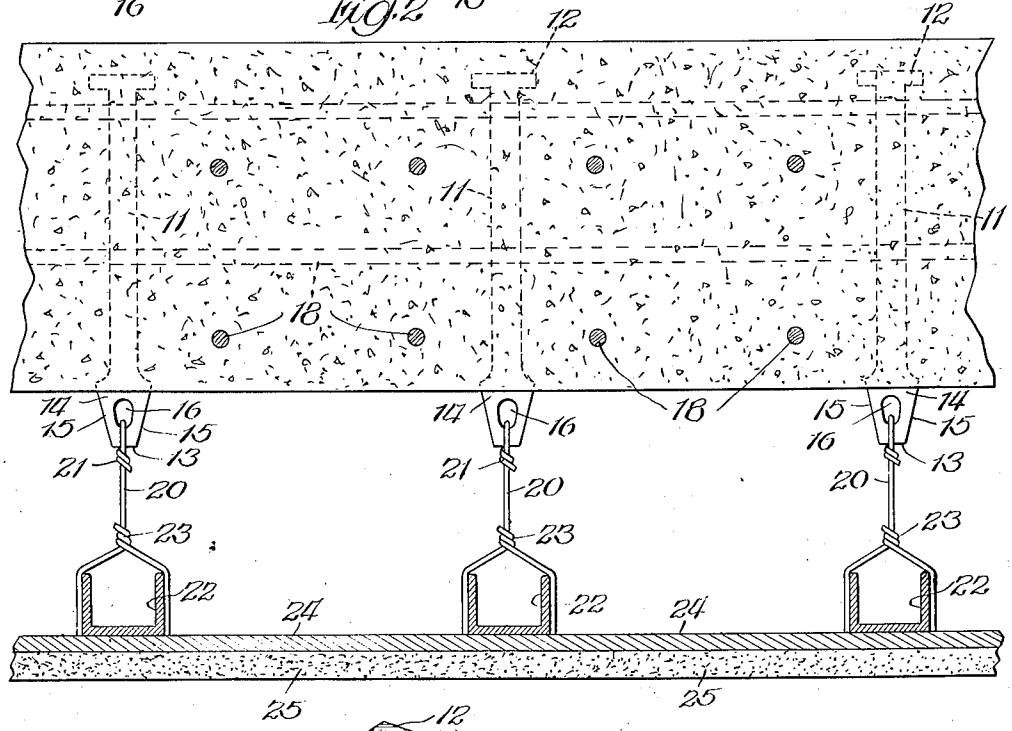
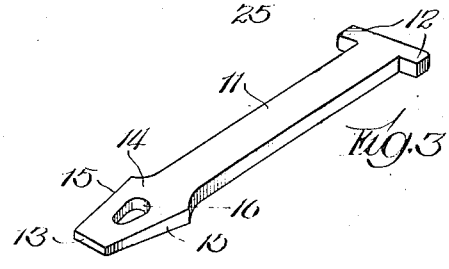


Fig. 3



Inventor

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By E. F. Goehring Jr. Atty.

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UNITED STATES PATENT OFFICE.

CHARLES G. GIROLAMI, OF CHICAGO, ILLINOIS.

ANCHORING OR SECURING DEVICE.

Application filed May 9, 1921. Serial No. 467,966.

To all whom it may concern:

Be it known that I, CHARLES G. GIROLAMI, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Anchoring or Securing Devices, of which the following is a specification.

This invention relates to improvements in anchoring or securing devices, particularly adapted, though not necessarily limited in its use with suspended ceilings.

Heretofore in construction of suspended ceilings is has been customary to place the mold board in position, after which holes are bored through one of the boards at any desired point and through which holes pieces of wire are passed, one end remaining on the outside of the mold and the other end passing into the mold to be embedded in the plastic material which is poured or placed against the mold board.

After the material has become set the mold boards are removed and the free end of the wire is drawn through the opening in the board as the latter is withdrawn. To the free end of each of the wires is secured one of the parts of the ceiling.

The process of boring the holes to receive these wires is not only laborious but is expensive.

To overcome these difficulties and objections and to provide an improved anchoring or securing device, a portion of which is adapted to be embedded in the plastic structure, and adapted to be readily placed in position without necessitating boring, and which will when the mold board is removed, provide a projecting end to which the flexible tying or securing element or wire may be readily attached, is one of the objects of the present invention.

To the attainment of these ends and the accomplishment of other new and useful objects as will appear, the invention consists in the features of novelty in substantially the construction, as hereinafter more fully described and claimed and shown in the accompanying drawing illustrating this invention and in which—

Figure 1 is a view partly in elevation and partly in section showing this improved anchoring or securing device in position in connection with the mold board.

Figure 2 is a view similar to Figure 1 showing the mold board removed and a portion of a suspended ceiling secured in position.

Figure 3 is a detail perspective view of one of the anchoring or securing devices.

Referring more particularly to the drawing the numeral 10 designates a mold board generally used in building construction.

The anchoring or securing device embodies a body portion 11 of a rigid construction and of any suitable material preferably of metal. The body is preferably provided with laterally projecting portions 12, to form a head at one extremity thereof, while the extremity 13 is shaped to form a driving end. This extremity 13 is preferably enlarged as at 14, and is provided with tapering sides 15, which will permit the element to be of a spike-like formation and adapted to be readily driven into the mold board 10. The portion 14 of the element is provided with an opening 16 therethrough adjacent but spaced from the driving end 13.

In use the mold board is first placed in position and any number of these elements 11 are next placed in position by driving the end 13 into the mold board a sufficient distance so as to permit the opening 16 to project into the mold board beyond the face 17 of the board and through which face the end of the element is driven.

After these elements 11 have been placed in position the usual re-enforcing structure 18 is placed within the mold and then plastic material 19 is placed in the mold.

After the material 19 has become set it is customary to remove the mold boards 10. By the provision of the tapered walls 15 of the end 13 of the element 11, it will be manifest that the removal of the mold board 10 will not be interfered with and, when the mold board is removed, the aperture 16 will project beyond the face of the plastic material 19, against which the mold board 10 was arranged.

The end 13 of the element 11 will then be exposed and will project beyond the face of the wall to such an extent that the aperture 16 will be readily accessible. The operation of securing the metallic or suspended ceiling or other structure to be anchored consists in looping through each of the openings 16 a suitable flexible element 20, such as wire or the like. One end of the element may be inserted through the opening 16 and the extremity 21 thereof twisted about the body of the element, while the other extremity of

the element 20 may be looped or twisted around a supporting beam or channel iron, the extremity of the loop being preferably twisted about the body 20 as at 23.

Any number of these channel irons or beams may be employed and when secured in position in the manner just described, and if desired metal laths or other structures 24, may be secured to the channel irons in any suitable manner after which a suitable coating or facing 25 of any suitable material, preferably plastic material may be applied to the face of the portion 24.

With this improved construction it will be manifest that the element 11 being embedded in the plastic material 19 will not become detached therefrom and by these spike like elements, they may be readily and quickly secured to the mold board and the laborious and expensive task will be obviated.

While the preferred form of the invention has been herein shown and described it will of course be understood that various changes may be made in the shape thereof within the scope of the claims without departing from the spirit of this invention and while the extremity 13 has been shown as being of a blunt shape, it is also obvious that the same may be pointed if desired.

What is claimed as new is:—

1. An anchoring device embodying a rigid body of a spike-like formation, there being an opening adjacent one end thereof and within the confines of the edges, the said end being adapted to be driven into a board or form to a depth that the said opening will extend into the board, the body of the said device being embedded in a concrete structure, the said end of the device with the opening therein protruding beyond the face of the said structure when the board is removed.

2. As an article of manufacture an anchoring device of the character described embodying a rigid structure of a spike like formation having an enlarged and flattened penetrating end, there being an opening the said end entirely within the confines of the edges of the end.

3. As an article of manufacture an anchoring device of the character described embodying a rigid structure of a spike like formation, one end thereof being shaped to form a head of larger diameter than the body portion, the other end being enlarged and flattened and tapering on all sides to form a penetrating end, there being an opening through the last said end entirely within the confines of the edges thereof.

4. As an article of manufacture an anchoring device of the character described embodying a rigid structure of a spike like formation, one end being enlarged and flattened and tapered towards the extremity thereof, there being an aperture through the said tapered end adjacent the extremity thereof and entirely within the confines of the edges thereof.

In testimony whereof I have signed my name to this specification, on this 6th day of May, A. D. 1921.

CHARLES G. GIROLAMI.