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D. H. BITNEY

1,880,709

INSERT ANCHOR

Filed July 28, 1930

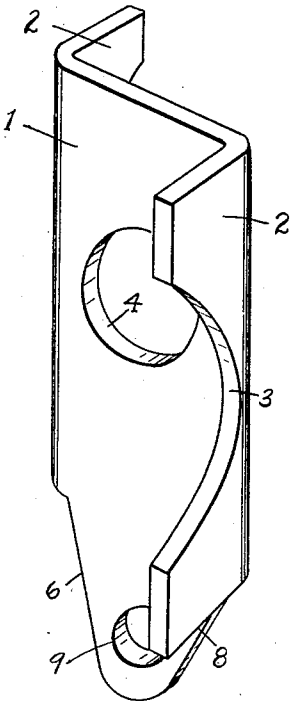


Fig. 1

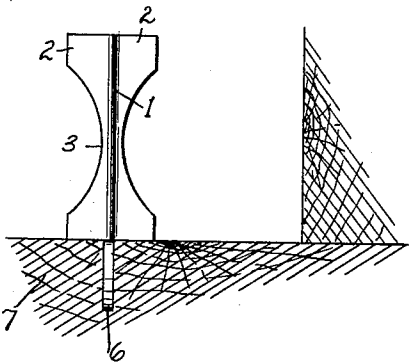


Fig. 2

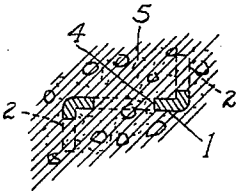


Fig. 4

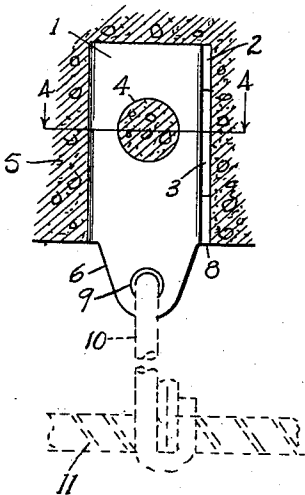


Fig. 3

INVENTOR
Dewey H. Bitney
BY *Chappell & Co.*
ATTORNEYS

UNITED STATES PATENT OFFICE

DEWEY H. BITNEY, OF ALBION, MICHIGAN, ASSIGNOR TO UNION STEEL PRODUCTS COMPANY, OF ALBION, MICHIGAN

INSERT ANCHOR

Application filed July 28, 1930. Serial No. 471,187.

The main object of this invention is to provide an insert anchor, that is an anchor which may be embedded in concrete, to facilitate the attachment thereto of an anchored part, for example, metal lath.

A further object is to provide a structure of this character which may be quickly and accurately positioned in the form to receive the concrete and projects uniformly from the face of the concrete when the form is removed.

A still further object is to provide an insert anchor having these advantages which is very economical to produce and convenient to use.

Objects pertaining to details and economies of my invention will definitely appear from the description to follow. The invention is defined in the claim.

A structure which embodies the features of my invention is clearly illustrated in the accompanying drawing, in which:

Fig. 1 is a perspective view of my insert anchor.

Fig. 2 is a fragmentary section of a form illustrating the manner of positioning to receive the concrete.

Fig. 3 is a fragmentary view illustrating the position of the anchor in the concrete body and one method of attaching a part to be supported thereto, the part supported being indicated as metal lathing and the tie member being shown by dotted lines.

Fig. 4 is a fragmentary section on line 4—4 of Fig. 3.

My improved anchor insert in the embodiment illustrated comprises a plate-like body 1 having oppositely disposed flanges 2 on its longitudinal edges. These flanges are notched or recessed at 3. A hole 4 is also formed in the body to receive the concrete and thereby effect a more secure anchorage. The notched flanges also increase the anchorage so that even though the unit be made quite small it is effectively retained when embedded in concrete as indicated at 5 in Figs. 3 and 4.

A flat tapered tang 6 projects from the outer end of the body member and is adapted to be driven into a form shown at 7, Fig. 2. The ends 8 of the flanges 2 serve as stops to

limit the penetration of the tang and also serve as bracing members so that the device is not likely to be bent over in the event it is struck by some object. These stop shoulders also insure a uniform amount of projection when the form is stripped.

The tang has a hole 9 adapted to receive a tie or attaching member 10 for attaching the object to be supported, such as metal lathing shown at 11 in Fig. 3.

My improved insert anchors may be very economically produced and have a large holding capacity in proportion to size. The tangs should be driven into the forms parallel to the grain and may be very accurately positioned to receive the concrete.

I have not attempted to illustrate certain modifications or adaptations for particular uses which I contemplate as it is believed that this disclosure will enable those skilled in the art to embody or adapt the same as may be desired.

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

An anchor for concrete comprising a plate-like body portion adapted to be embedded in concrete, and flanges on its longitudinal edge, and a tang-like extension at one end adapted to be driven into a form, the ends of said flanges constituting form engaging stops, said plate having an opening therein, said tang being exposed when the form is removed and having an opening therein to facilitate attachment of an anchored part thereto.

In witness whereof I have hereunto set my hand.

DEWEY H. BITNEY.