

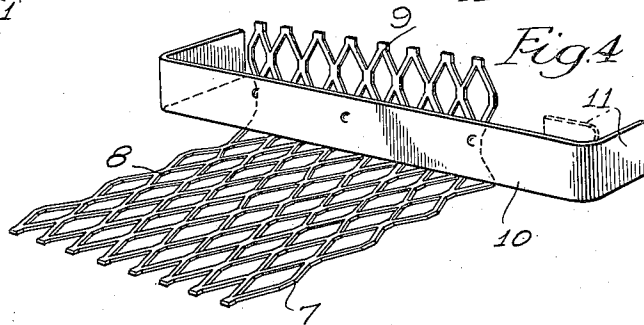
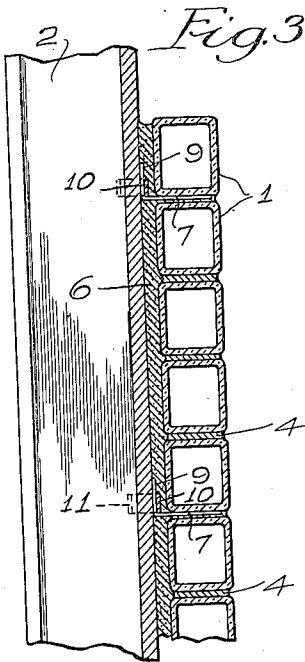
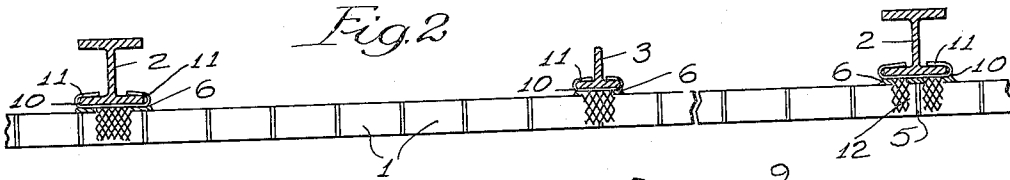
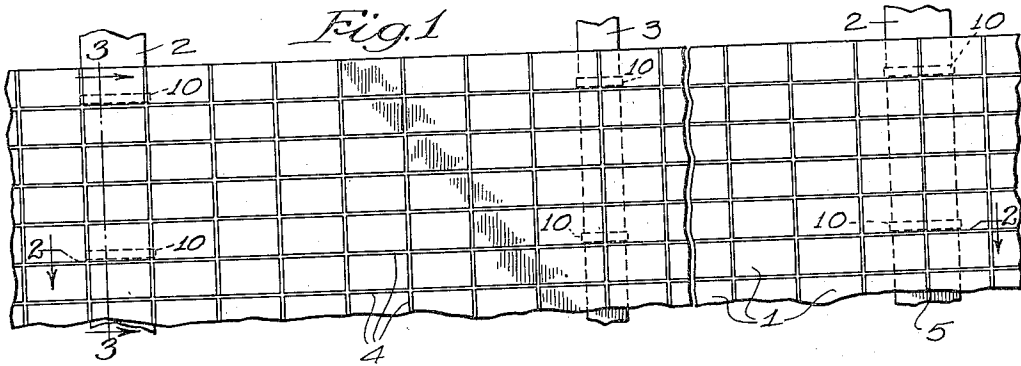
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C. A. LORD

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WALL TIE

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*Inventor:*

*Chester A. Lord,*

*By Fisher, Clapp, Soans & Wood,*  
Attys.

*Witnesses:*

*Wm. Anderson,*  
*H. J. DeWitt.*

# UNITED STATES PATENT OFFICE

2,128,308

## WALL TIE

Chester A. Lord, Chicago, Ill., assignor to Universal Form Clamp Co., Chicago, Ill., a corporation of Illinois

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6 Claims. (Cl. 72—103)

The main objects of this invention are to provide an improved form of wall tie for anchoring a facing or veneer to the structural elements; to provide a wall tie which is particularly suitable for use in anchoring a facing of building blocks such as glass blocks or bricks; and to provide a wall anchor of this kind which is sturdy and inexpensive and which may be easily and quickly applied without the use of auxiliary fastening means.

An illustrative embodiment of this invention is shown in the accompanying drawing wherein:

Fig. 1 is a fragmentary front elevation of a building structure in which a facing of glass blocks is anchored to upright structural shapes by the improved ties.

Fig. 2 is a horizontal section taken on the line 2—2 of Fig. 1.

Fig. 3 is an enlarged vertical section taken on the line 3—3 of Fig. 1.

Fig. 4 is an enlarged perspective of one of the improved wall ties or anchors.

In the construction illustrated, the improved ties are used for anchoring a facing of glass blocks to the usual upright structural shapes including I-beams 2 and intermediate T-bars 3. The blocks are cemented together as usual by mortar 4 and, located between certain courses of blocks are the customary expansion joints 5. A suitable sealing material, such as oakum 6, is inserted between the facing and each of the structural shapes.

In the form shown, the improved tie or anchor comprises a mat 7 of wire mesh having a main portion 8 adapted to be embedded in the mortar between two courses of blocks and having a flange portion 9 at its inner end which is spot welded or otherwise rigidly secured to a flexible metal strap 10. The strap 10 projects laterally beyond the side edges of the mat to permit the ends of the strap to be bent to form hooks 11 which embrace the side edges of the structural shapes.

If any of the expansion joints is located at any of the structural shapes, the mats of the anchors attached to such shapes are recessed, as shown at 12 to accommodate the expansion joint.

With this improved construction, if there is any vertical expansion or contraction in the facing, the hooks of the anchors will slide on the structural shapes so as to avoid rupturing any of the parts.

Although but one specific embodiment of this invention has been herein shown and described, it will be understood that details of the construction shown may be altered without departing

from the spirit of the invention as defined by the following claims.

I claim:

1. A wall tie for anchoring a facing of building blocks to a structural element comprising an open work pad adapted to overlie a course of blocks so as to be embedded in the facing, and a flexible strap secured to said pad adapted to be bent to form a hook for slidably embracing an edge of the structural element.

2. A wall tie for anchoring a facing of building blocks to a structural element comprising an open-work pad adapted to overlie a course of blocks so as to be embedded in the facing, and a strap secured to and crosswise of said pad having a pair of flexible ends adapted to be bent around and slidably engage the edges of the structural element.

3. A wall tie for anchoring a facing of building blocks to a structural shape comprising a perforated mat adapted to lie between two courses of blocks so as to be embedded in the facing, and a flexible strap secured to and crosswise of said mat, the ends of said strap projecting laterally beyond said mat and adapted to be bent to form hooks for slidably embracing the structural shape.

4. A wall tie for anchoring a masonry facing to a structural element comprising a member having a flat reticulated portion adapted to be embedded in the facing and a flange adapted to lie against said structural element, and a flexible strap extending across and attached to said flange and having end portions adapted to be bent to embrace the sides of said structural element.

5. A wall tie for anchoring a facing of building blocks to an upright structural element comprising a reticulated member having a flat body portion adapted to be embedded in the mortar between adjacent block courses and an integral upright flange adapted to lie against said structural element, and a flexible strap extending across and attached to said flange and having a hook-shaped end portion adapted to slidably embrace a side of said structural element.

6. A wall tie for anchoring a facing of building blocks to an upright structural steel beam comprising a wire mesh mat having a flat body portion adapted to be embedded in the mortar between adjacent block courses and an integral upright flange on one end of said body portion adapted to lie in contact with the face of said beam, and a flexible metal strap extending across and attached to said flange and having hook-shaped ends adapted to slidably embrace the side edges of said beam.

CHESTER A. LORD.