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1,474,046

H. H. LAMPERT

WALL TIE

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Fig. 1.

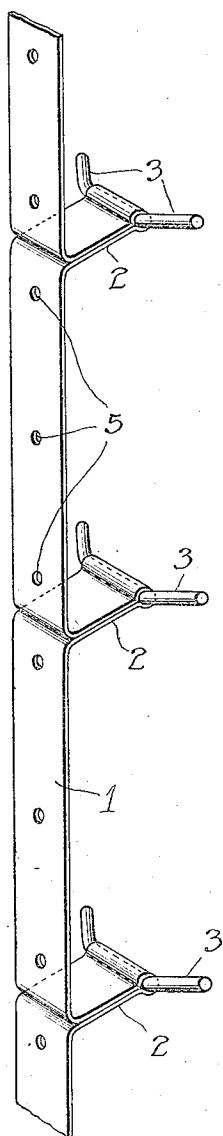


Fig. 2.

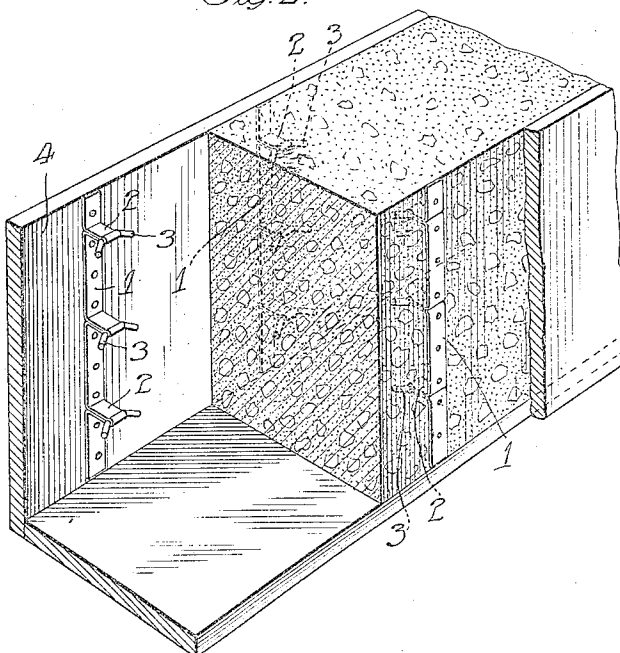
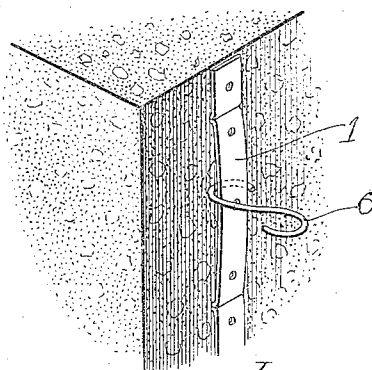


Fig. 3.



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WALL TIE.

Application filed October 24, 1919. Serial No. 332,992.

To all whom it may concern:

Be it known that I, HENRY H. LAMPERT, a citizen of the United States of America, and a resident of Chicago, County of Cook, and State of Illinois, have invented certain new and useful Improvements in Wall Ties, of which the following is a specification.

The main objects of this invention are to provide an improved wall tie for use in concrete or other building constructions, whereby various elements or devices forming a part of the completed structure may be attached to or suspended from a wall, ceiling, floor, or other part of the structure; to provide a wall tie which is particularly suited for bonding brick or stone veneer to concrete; and to provide a wall tie of this kind which is simple and inexpensive to manufacture by reason of the small amount of material and workmanship required to form the same.

An illustrative embodiment of this invention is shown in the accompanying drawings, in which—

Fig. 1 is a perspective view of a section of a tie member constructed in accordance with this invention.

Fig. 2 is a perspective view of a section of a concrete mold, showing the manner in which the tie members are first applied to the form and their ultimate arrangement in the concrete.

Fig. 3 is an enlarged fragmentary perspective view of a portion of concrete and section of tie member, showing attached to the latter a bonding member by which some element or device entering into the building construction may be attached to or suspended from the concrete.

The specific embodiment of the tie member herein illustrated comprises a strip 1, anchor parts 2, and wires 3.

The strip 1 is of wrought metal and is doubled upon itself at intervals throughout its length to provide transversely disposed anchor parts 2, within the ends of which, between the doubled-over portions, the wires 3 are rigidly secured.

The wires 3 are formed of rather heavy material and have the ends thereof extending outwardly from the sides of the strip and anchor parts 2 and bent slightly rearwardly away from the face of the strip.

The tie member is particularly designed for use in connection with concrete. However, it is also suitable for use with other

forms of building material involving the use of a plastic material in which the anchor parts 2 and wires 3 may be embedded.

The device is used by securing the face thereof against the sides 4 of the mold by driving nails or other suitable fastening means through the apertures 5 formed in the strip. One of the tie members is shown in place in Fig. 2. After the concrete has been poured into a mold in which the tie members have been suitably arranged, the anchor parts 2 and wires 3 become embedded in the concrete with the face of the strip 1 substantially flush with the face of the concrete.

After the mold sections have been removed, the ends of the fastening means by which the tie member was secured to the mold may be clipped off in any suitable manner. By the use of a suitable tool, the strip 1 between the anchor parts 2 may be sprung out away from the face of the concrete so as to allow a bonding member or other device to be inserted around said strip. In Fig. 3, an S-shaped member 6 is shown secured in place in this manner. If such a bonding member is used for bonding brick veneer to the face of concrete, the bonding elements 6 are arranged so as to be placed in the mortar between bricks.

If the tie member is used for other purposes than bonding brick veneer, the form and manner of attachment of the elements to the strips may be varied in any way that may be found most desirable.

Although but one specific embodiment of this invention has been herein shown and described, it will be understood that some details of the construction shown may be altered or omitted without departing from the spirit of this invention as defined by the following claims.

I claim:

1. A wall tie of the class described, comprising a flat strip of metal of substantially uniform width and cross-section having anchor parts formed therefrom and extending transversely thereto at intervals along the length of said strip, and wires of greater length than the width of said strip secured to the ends of said anchor parts so as to provide said anchor parts with portions extending beyond the lateral edges of said strip, said anchor parts and wires being adapted to be embedded in a wall or the like so as to locate said strip on the face thereof.

2. A wall tie of the class described, comprising a strip of metal doubled upon itself at intervals along its length so as to provide transversely disposed anchor parts, and
5 wires secured between the doubled-over portions of said anchor parts, said anchor parts and wires being adapted to be embedded in a wall or the like so as to locate said strip on the face thereof.
- 10 3. A wall tie of the class described, comprising a strip of metal doubled upon itself at intervals along its length so as to provide transversely disposed anchor parts, and wires secured in the ends of said anchor parts between the doubled-over portions thereof and being extended outwardly from the sides and rearwardly away from the face of said strip, said anchor parts and wires being adapted to be embedded in a wall or the like so as to locate said strip on the face thereof.

Signed at Chicago this 22nd day of October, 1919.

HENRY H. LAMPERT.