T. J. McDONALD.

WALL TIE.

APPLICATION FILED MAR. 12, 1908.

908,310. Patented Dec. 29, 1908.

Fig. 1.

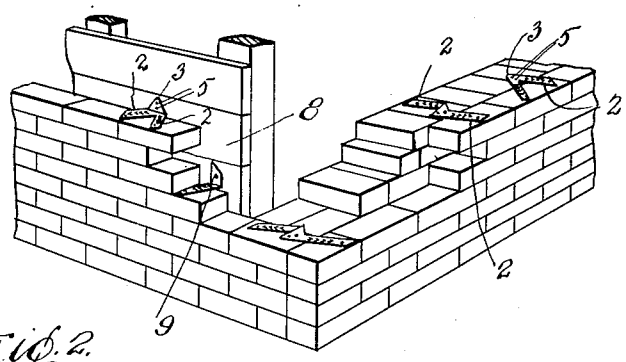


Fig. 2.

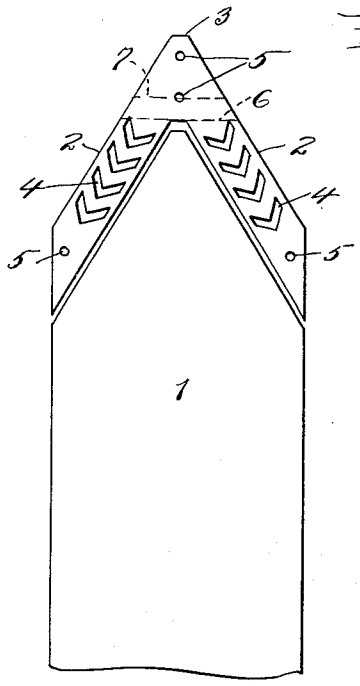


Fig. 3.

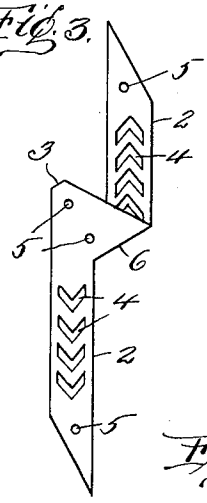


Fig. 5.

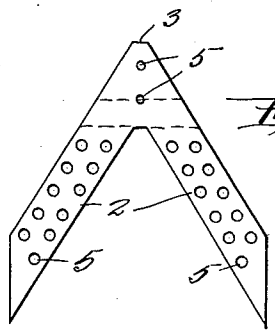
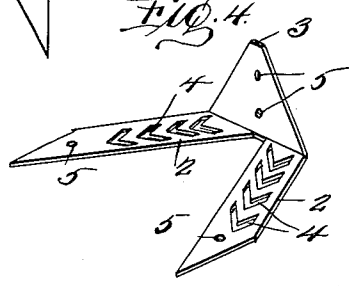


Fig. 4.



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UNITED STATES PATENT OFFICE.

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WALL-TIE.

No. 908,310. Specification of Letters Patent. Patented Dec. 29, 1908.

Application filed March 12, 1908. Serial No. 420,638.

To all whom it may concern:

Be it known that I, THOMAS J. McDONALD, a citizen of the United States of America, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Wall-Ties, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to a wall tie, and the primary object of my invention is, to provide simple and effective means for tying two or more bricks together, or to a suitable support.

A further object of my invention is to provide an inexpensive wall tie that can be cut and sheared from a strip of metal and bent to form a tie adapted for various uses.

With the above and other objects in view, which will more readily appear as the invention is better understood, the same consists in the novel construction, combination and arrangement of parts to be presently described and then specifically pointed out in the appended claims.

In the drawings; Figure 1 is a perspective view of a brick wall illustrating the application of my invention for tying two or more bricks together. Fig. 2 is a plan of a wall tie as cut and sheared from a strip of metal. Fig. 3 is a plan of the same constructed to tie two or more bricks. Fig. 4 is a perspective view of the same constructed to tie bricks to a suitable support, Fig. 5 is a plan of a modified form of wall tie.

To put my invention into practice, I provide wall ties which are cut and sheared from sheets of metal 1, each wall tie being substantially V shaped in contour and comprises a triangular-shaped body portion having a truncated end 3. The body portion has projecting from its other end a pair of arms 2, these latter diverging with respect to each other and having the inner terminus of the inner edge thereof spaced from each other whereby a portion of that end of the body portion from which the arms 2 project is formed with a straight edge. The arms 2 are provided with V-shaped slots 4. The tie is formed with circular openings 5, certain of these openings 5 being located in the body portion and one of said openings is positioned at the end of each arm. The outer terminus of the arms 2 is cut away so as to provide pointed ends.

When the tie is used in a standard wall for binding bricks, it can be used as shown in Fig. 2, or one of the arms bent upon the dotted line 6 to provide the form shown in Fig. 3, the actual use of this form being shown in the standard wall of Fig. 1.

If the tie is used in connection with a veneered wall, the body portion can be bent upwardly at right angles to the arms 2 either upon the dotted line 6 or the dotted line 7, according to the width of a brick. In some instances the body portion may lie flat and the ends of the arms bent upwardly and secured to the weather-boarding 8, as at 9.

Nails or any suitable fastening means can be employed for securing the body portion 3 or the ends of the arms 2 to the weather-boarding 8.

In Fig. 5 of the drawings, the arms 2 are shown provided with openings 5 in lieu of the V-shaped slots 4.

From the foregoing description it will be observed that I have devised a simple and inexpensive wall tie that can be used in connection with most any kind of a brick wall, the opening 4 being adapted to receive mortar and prevent lateral displacement of the bricks composing a wall.

I reserve the right to make my wall tie any desired size and provide the same with any shape of openings that are conducive to binding the tie between two or more bricks.

Having now described my invention what I claim as new, is;—

1. A wall tie comprising a V-shaped piece of flat bendable metal embodying a substantially triangular-shaped body portion having one end truncated and a pair of arms projecting from the other end of the body portion said body portion provided with circular openings and said arms provided with openings, said arms diverging with respect to each other and each having a pointed end and of a greater length than the body portion.

2. A wall tie comprising a V-shaped piece of bendable flat material, embodying a substantially triangular-shaped body portion having one end truncated and a pair of arms projecting from the other end of the body portion, said arms diverging with respect to each other and having pointed ends and of greater length than the body portion, said body portion provided with circular openings and said arms formed with slots.

3. A wall tie comprising a V-shaped piece

of bendable flat material, embodying a substantially triangular-shaped body portion having one end truncated and a pair of arms projecting from the other end of said body portion, said arms diverging with respect to each other and having pointed ends and of greater length than the body portion, said body portion provided with circular openings and said arms formed with V-shaped slots.

4. A wall tie comprising a V-shaped piece of flat metal embodying a substantially triangular-shaped body portion having one end truncated and a pair of arms projecting from the other end of the body portion, said arms and body portion provided with openings and said arms diverging with respect to each other and each having the outer terminus thereof pointed.

5. A wall tie comprising a V-shaped piece of flat metal cut away to provide a substantially triangular-shaped body portion having one end truncated and a pair of arms projecting from the other end of the body portion, said body portion and arms provided with circular openings and said arms furthermore provided with V-shaped slots interposed between the circular openings in the arms and body portion, said arms diverging with respect to each other.

In testimony whereof I affix my signature in the presence of two witnesses.

THOMAS J. McDONALD.

Witnesses:
MAX H. SROLOVITZ,
T. S. McDONALD.