

March 29, 1927.

1,622,697

R. W. BAILY

FLOOR CLIP

Filed April 7, 1924

Fig 1

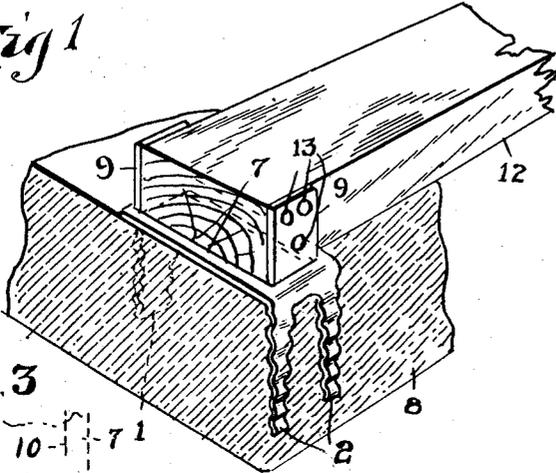


Fig 3

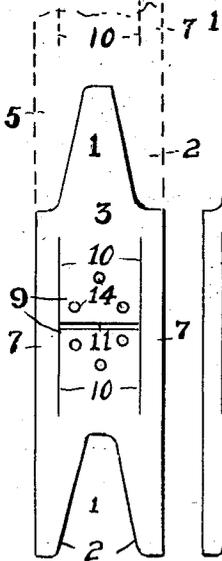


Fig 4

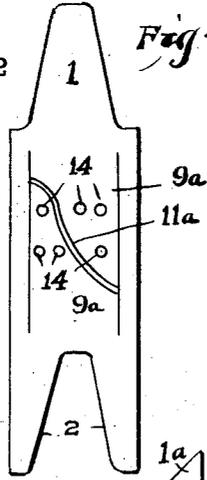
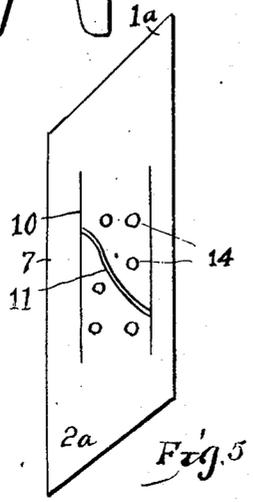
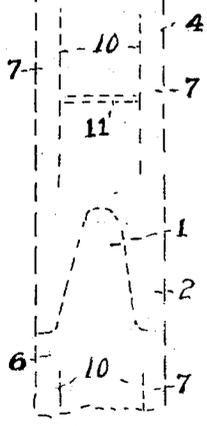
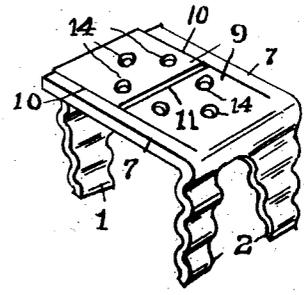


Fig 2



INVENTOR
R. W. Baily
by F. N. Barber
attorney

UNITED STATES PATENT OFFICE.

ROBERT W. BAILY, OF PITTSBURGH, PENNSYLVANIA.

FLOOR CLIP.

Application filed April 7, 1924. Serial No. 704,729.

My invention relates to floor clips or anchors, by means of which nailing strips, sleepers, or the like may be permanently assembled with concrete floors, walls, or the like. It is the principal object of this invention to make clips or anchors without waste from sheet-metal and with a minimum of operations, whereby the cost will be relatively low. It is also an object to provide clips or anchors which require no bending of the same metal tongues in opposite directions on the same line and to bend no part more than ninety degrees from its original plane. Other objects appear hereinafter.

Referring to the accompanying drawing, Fig. 1 is a perspective view showing one form of my clip connecting a nailing strip to a cement body; Fig. 2, a perspective view of said form of clip in its finished shape, ready to be applied to a cement floor or the like; Fig. 3, a plan view of a blank clip and of a second clip in dotted lines to show the method of making the blanks from a strip of metal without waste; Fig. 4, a plan view of a blank showing a second form of my invention; Fig. 5, a plan view of another form of blank.

Referring first to Figs. 1 to 3, my clip comprises a single piece of sheet metal having at one end the downwardly-tapering anchoring tongue or flange 1, and at the opposite end the pair of downwardly-tapering tongues or flanges 2, the space between the tongues 2 widening progressively downwardly corresponding to the progressive widening of the tongue 1 upwardly. This correspondence of the shape of the said space and the tongue 1 results from the manner in which a plurality of clips are stamped from a continuous strip of sheet-metal. In Fig. 3 I show two complete blanks 3 and 4 and two portions 5 and 6 of blanks, all stamped from one piece of sheet-metal. Each blank is formed with the tongue 1 at one end and the two tongues 2 at the other end, the tongues being originally in the plane of the strip of sheet metal whose width is that of the clips to be made therefrom. In severing the blank 3 from the metal strip, the same is stamped from the strip so as to leave the tongues 2 on the adjacent end of the blank 5 and the tongue 1 on the adjacent end of the blank 4, thereby leaving the tongue 1 on the end of the blank 3 adjacent to the blank 5 and the tongues 2 on the end of the blank 3 adjacent to the blank 4, that is, the tongue 1 is made

on each blank by cutting it out of the strip so as to leave on each side thereof a tongue 2 on the adjacent blank. The tongues 1 and 2 are bent down at right angles to the central, bridge, or connecting portions 7 of the blank and at the same side thereof, the tongues 1 and 2 being preferably transversely corrugated, as shown on Figs. 1 and 2, in order to prevent the clips from being drawn out of the cement body 8.

The blanks have the tongues 9 formed out of the interior portion thereof, each tongue being integral with the body at the ends thereof near the origins of the tongues 1 and 2, but severed therefrom at the lines 10 parallel with the connecting portions 7. The tongues 9 are separated by cutting the transverse slot 11 from one line 10 to the other. The clips are applied by forcing the tongues 1 and 2 into the cement 8 until the outer faces of the connecting portions 7 are flush with the surface of the cement. When so applied the tongues 9 are substantially flush with the surface of the cement so that the clips will not present any obstruction to workmen and wheelbarrows traveling over the cement 8. When a nailing strip 12 is to be secured to a clip, the tongues 9 are bent up at right angles from their normal position. The nailing strip 12 is then placed between the tongues 9 and secured thereto by nails 13 driven into the strip through the holes 14 in the tongues.

In Fig. 4 the tongues 9^a are like the tongues 9 except they have been separated from each other by a diagonal slot 11^a in order to make the tongue symmetrical and of equal length. The tongues 9^a are longer than the tongues 9 while the size of the blanks from which they are made are equal.

In Fig. 5 the parts are as in Fig. 4, except that the ends are beveled on parallel lines to form tongues 1^a and 2^a.

I claim—

1. A floor clip or the like comprising a single piece of sheet metal having at opposite ends tongues bent at an angle from the portion of the clip connecting the tongues, and also having between the said ends a pair of tongues normally in the plane of the said portion of the clip and enclosed thereby and adapted to be bent from said plane to receive between them a nailing strip after the clip has been placed in use with the first tongues inserted in a cement body.

2. A floor clip or the like comprising a

single piece of sheet metal having at opposite ends tongues bent at an angle from the portion of the clip connecting the tongues and also having between the said ends a pair
5 of tongues normally in the plane of the said portion of the clip and enclosed thereby and adapted to be bent from said plane to receive between them a nailing strip after the

clip has been placed in use with the first tongues inserted in a cement body, the said 10 tongues normally projecting toward each other.

In testimony whereof, I hereunto affix my signature this 3rd day of April, 1924.

ROBERT W. BAILY.