

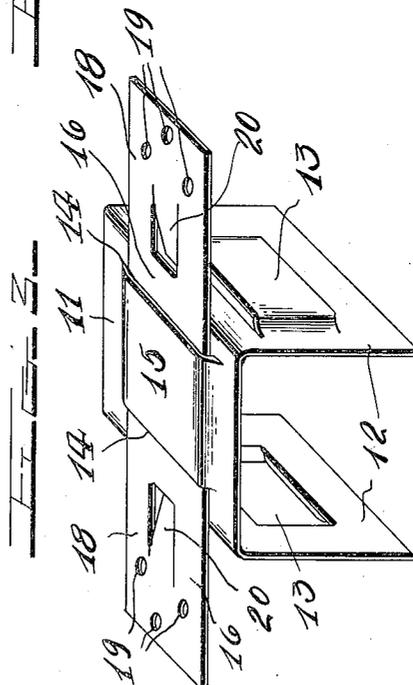
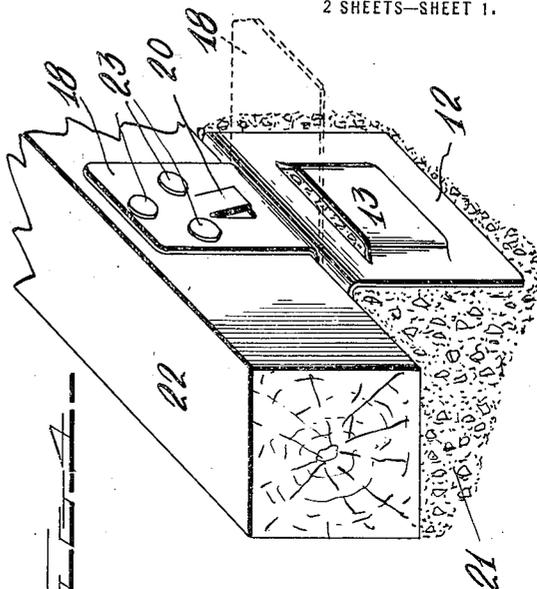
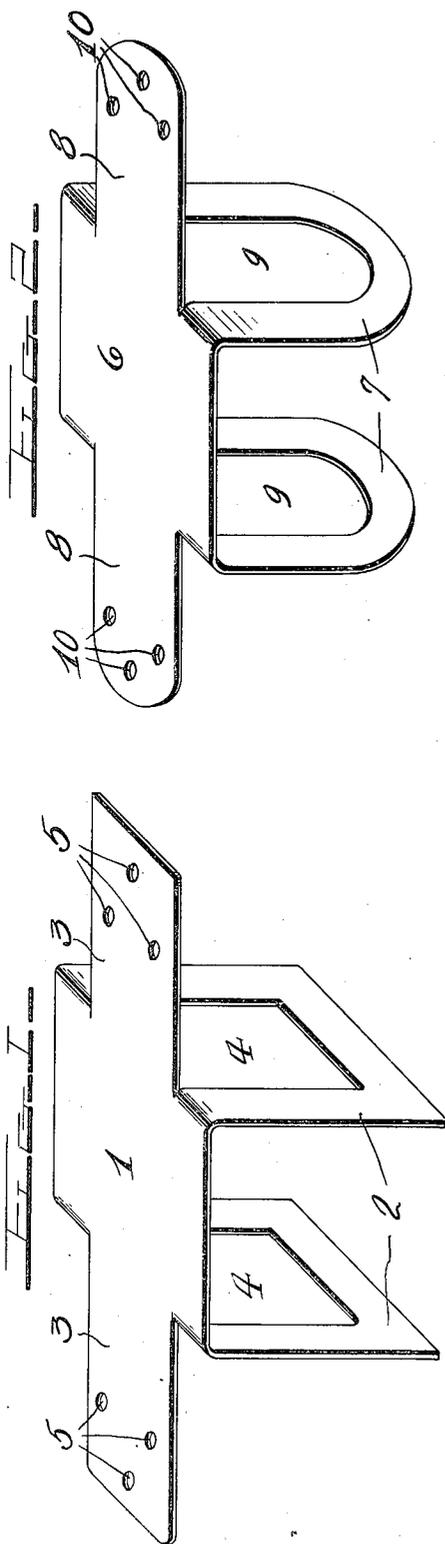
G. W. BROOKS.
SCREED HOLDER.

APPLICATION FILED JULY 16, 1921.

1,423,991.

Patented July 25, 1922.

2 SHEETS—SHEET 1.



Inventor
George W. Brooks

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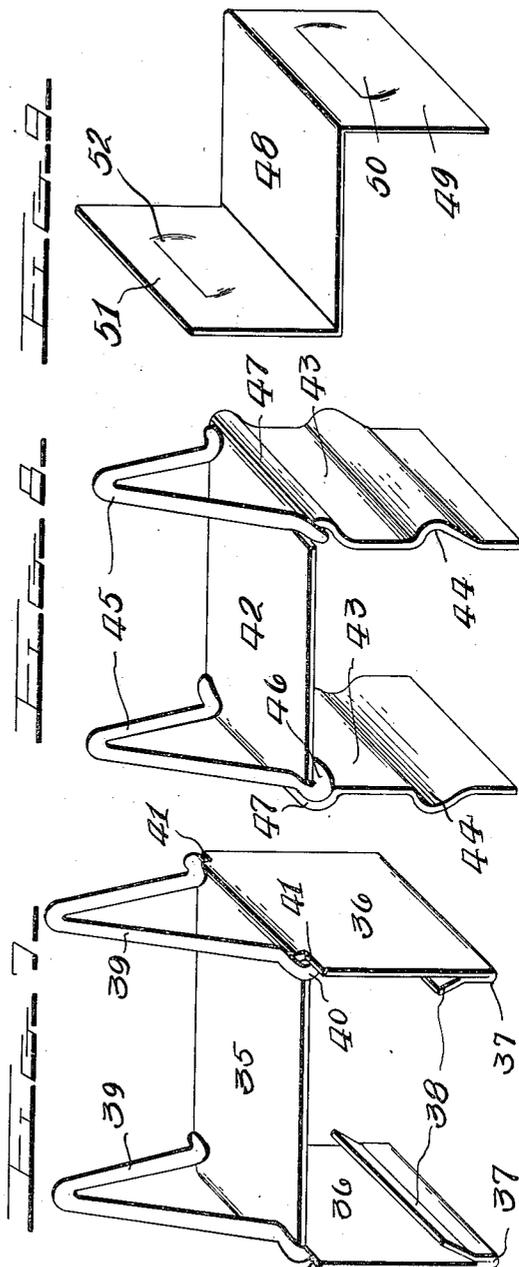
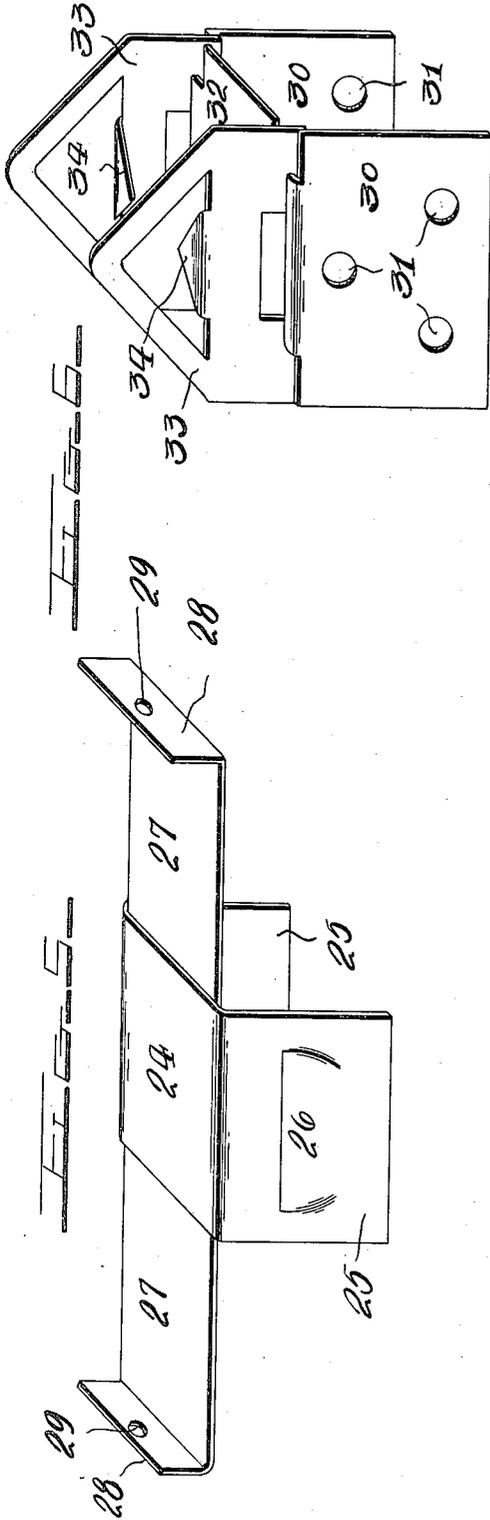
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2 SHEETS—SHEET 2.



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Agency

UNITED STATES PATENT OFFICE.

GEORGE W. BROOKS, OF TOPEKA, KANSAS.

SCREED HOLDER.

1,423,991.

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Application filed July 16, 1921. Serial No. 485,238.

To all whom it may concern:

Be it known that I, GEORGE W. BROOKS, a citizen of the United States, residing at Topeka, in the county of Shawnee and State of Kansas, have invented certain new and useful Improvements in Screed Holders, of which the following is a specification.

This invention relates to certain new and useful improvements in screed holders or clips designed more especially for use in connection with concrete construction, and it has for its objects among others to provide an improved holder or clamp the primary purpose of which is to secure a portion of the same in the concrete floor or foundation and the other or top portion having lugs or equivalent means for attachment to a wood screed, the purpose of said screed being to form a nailing base to fasten the floorboards or other boards in position.

So far as I am aware, the screed holders or clips or clamps heretofore devised have been provided with vertical lugs or flanges which required bending to bring them level with the concrete floor surface. This has been rendered absolutely necessary so as not to cause any objection or obstruction while building operations are being carried on for the reason that the vertical lugs interfere with the free passage of wheelbarrows or material which it is necessary to move in the construction of the building, and it has been the practice to bend these lugs down level with the surface of the concrete, or otherwise they are bent over and sometimes broken by the wheelbarrows or the timbers while being placed in position. This necessitates the bending up of the lugs or flanges which is apt to crack the thin galvanizing scale or coating and leave the iron exposed which invites rust.

By my present improvement, these objections are overcome and the holder or clamp when embedded and set in the concrete is ready to receive the screed without bending or distorting the lugs.

Other objects and advantages of the invention will hereinafter appear and the novel features thereof will be particularly pointed out in the appended claims.

The invention is capable of embodiment in a variety of forms, some only of which are herein shown.

The invention, in such preferred forms, is clearly illustrated in the accompanying

drawings, which, with the numerals of reference marked thereon, form a part of this specification, and in which—

Figure 1 is a perspective view of one form of holder or clip embodying my invention. 60

Figure 2 is a similar view of a slightly modified form.

Figure 3 is a similar view of still another form.

Figure 4 is a perspective view showing the application of the form shown in Figure 3. 65

Figure 5 is a perspective view of a modified form.

Figure 6 is a similar view of still another form. 70

Figure 7 shows in perspective another form.

Figure 8 is a perspective view of still another form of embodiment of the invention.

Figure 9 shows still another form. 75

Like numerals of reference indicate like parts throughout the different views.

My improved clip can be used in walls, ceilings or other places to hold or fasten nailing strips to, and, in fact, in any and all places where a device of such general character is desired. 80

Referring to the drawings, first to Figure 1, there will be seen one form of my improved clip or holder which is constructed of a single piece of sheet metal comprising a body portion 1, the flanges 2, 2, depending downwardly therefrom and the lateral lugs or flanges 3 extending at right angles from the body portion 1 and substantially at right angles to the flanges 2. The flanges 2 are preferably cut-away, as seen at 4, so as to provide openings or spaces into which the concrete is designed to flow or be received to aid in holding the clamp or clip in place, while the flanges 3 are provided with openings 5 for the reception of nails, bolts or other means for securing the same to the screed or other wooden timber, as will be readily understood. 85 90 95 100

In Figure 2 I have shown a slightly modified form of clamp or holder embodying the body portion 6, the depending flanges 7, and the lateral flanges 8. The depending flanges 7 are cut-away, as shown at 9, for the same purpose as in Figure 1, and the flanges 8 are provided with openings 10 for the reception of nails or other securing means. 105

In Figure 3, I have shown a clamp or holder comprising a body portion 11 with 110

depending flanges 12 which are stamped and outwardly bulged, as seen at 13, to provide holding means for retaining the clip or clamp fixedly in the concrete. In this form, instead of the lateral flanges being formed integral with the body portion, I slit such body portion along substantially parallel lines, as seen at 14, and then bend the same upward to form the member 15 beneath which is placed the strip 16 which is confined beneath the member 15 and the top of the body portion 11 at opposite edges. These members may be of any desired dimensions and the extended portions of the strip 16 form lateral flanges or lugs 18 which are provided with openings 19 for the reception of the means which secure the flanges to the screed or other timber. The flanges 18 in this instance are provided with tongues or the like 20 struck therefrom and adapted to engage the side walls of the body portion when in normal position so as to prevent accidental separation of the member 16 from the other member.

Figure 4 shows the mode of use of the clip or holder of the form shown in Figure 3. In this view 21 is the concrete and 22 the screed or timber to be secured in position. The clip or holder is placed in position with the parts as they are seen in Figure 3, the flanges 18 being horizontal and level with the surface of the concrete. This leaves the parts in such position that the screed or timber can be readily placed upon the top of the clamp or holder and the flanges or lugs 18 are not in position to interfere with the wheeling of the wheelbarrows or passage of other objects or persons over the surface. After the screed is in position, the flanges 18 are bent up into vertical position, from a horizontal position, as clearly illustrated in Figure 4, and then suitable securing means, as 23, are engaged in the openings 19 and the work is completed.

In Figure 5 the clamp or holder is shown as embodying the body portion 24 with depending lugs or flanges 25 which are formed with cut-outs or the like 26 to receive the concrete, and with the lateral portions or flanges 27 which may or may not be integral therewith and which are provided at their outer ends with upturned flanges 28, each provided with an opening 29. In the use of this form of clip, after the screed or timber is in position, the flanges 27 are bent upward upon opposite sides of said screed or timber and the flanges 28 engaged over the top of the latter and fastened by suitable means passed through the openings 29.

Figure 6 shows a form embodying the depending flanges or members 30 with openings 31 to receive the concrete, a body portion 32 and side flanges 33 movably connected therewith and provided with cut-out portions forming sharpened tongues 34

which are adapted to be driven into the screed or timber after the flanges 33 are bent into vertical position. In applying this form the flanges 30 are set into the concrete, the girder or screed is applied by placing it upon the body portion with the flanges 33 in horizontal position and then the latter are bent upward to embrace opposite sides of the screed and the tongues 34 driven into the latter.

The form shown in Figure 7 embodies the body portion 35 with depending flanges 36, the lower edges of which are bent upwardly, as seen at 37, and the free edges extended inwardly, as shown at 38, to form troughs into which the concrete is received. In this form the lateral flanges 39 are formed of wire or the like, said flanges being hingedly connected with the body portion at its junction with the depending flanges 36 in any suitable manner, as by having their ends 40 received in offsets 41 of the flanges 36 and engaged beneath the body portion 35 so that they may be readily turned from horizontal to vertical position and still held against accidental displacement.

Figure 8 shows a clip or holder quite similar to that of Figure 7 and embodying a body portion 42 from which depend the flanges 43 which are provided intermediate their height with the outward bends 44 to form troughs or recesses in which the concrete is designed to be received. In this form the lateral flanges 45 are formed of wire or analogous material and are hingedly connected with the body portion in any suitable manner, as, for instance, by having their ends 46 received in the transverse bends 47 formed at the junction of the body portion 42 and flanges 43. The construction is such as to permit the flanges or lugs 45 to be readily turned from a horizontal or vertical position and still they are prevented from accidental displacement in handling.

Figure 9 shows a simplified form embodying the body portion 48, the depending flange 49 with the cut-out portion 50 to form a hold in the concrete, and with the flange 51 cut-out to form a tongue 52 which is adapted to be driven into the side of the screed or timber after the flange or lug 51 has been moved into a vertical position after the screed or timber has been placed upon the holder.

It is to be understood that in all the forms as hereinbefore described and illustrated the flange or flanges designed to engage the side of the screed or timber will normally be in horizontal position adapted to lie on a level with the surface of the concrete and to be bent into vertical position after the screed or timber is in place.

Modifications in details may be resorted to without departing from the spirit of the invention or sacrificing any of its advantages.

For instance, the normally lateral flanges or lugs of the forms shown in Figures 1, 2 and 3 may be provided with right angled flanges, such as shown at 28 in Figure 5, to engage over the top of the screed, if found desirable.

What is claimed as new is:—

1. A screed holder or clip embodying a body portion, a normally depending flange, and a normally outturned substantially horizontal flange adapted to be bent in a vertical position to engage a screed after the latter has been placed in position.

2. A screed holder or clip comprising a body portion with depending flange having provision to receive plastic material and a normally outturned horizontal flange having means for its attachment to a screed and adapted to be bent into vertical position to engage the latter after its application thereto.

3. A screed holder or clip having a sheet metal body portion with depending flanges formed with concrete receiving portions and normally outturned horizontal bendable flanges adapted to be bent into position at substantially right angles to the body portion after the holder has been applied to a screed or other member.

4. A screed holder or clip comprising a body portion with depending flanges and an

outturned normally horizontal member having extended flanges with provisions for fastening the same to a screed, and means for normally retaining the same in horizontal position.

5. A screed holder or clip comprising a sheet metal body portion having depending flanges, the body portion being slitted, and a normally outturned horizontal member passed through said slits and bendable into vertical position to engage a screed.

6. As an improved article of manufacture, a screed holder or clip comprising a body portion with depending flanges and normally outturned lateral flanges extending beyond opposite sides of said body portion and supported thereby.

7. As an improved article of manufacture, a screed holder or clip comprising a body portion with depending flanges and normally lateral flanges extending beyond opposite sides of said body portion and supported thereby, the portions of said lateral flanges beyond the edges of the body portion being formed with tongues to engage the side walls of the body portion when the flanges are in normal position to prevent accidental separation of said flanges from the body member.

In testimony whereof I affix my signature.
GEORGE W. BROOKS.