July 27, 1943. W. R. GARDNER 2,325,124

WEATHER SURFACE COVERING

Filed March 25, 1942

FIG. 1.

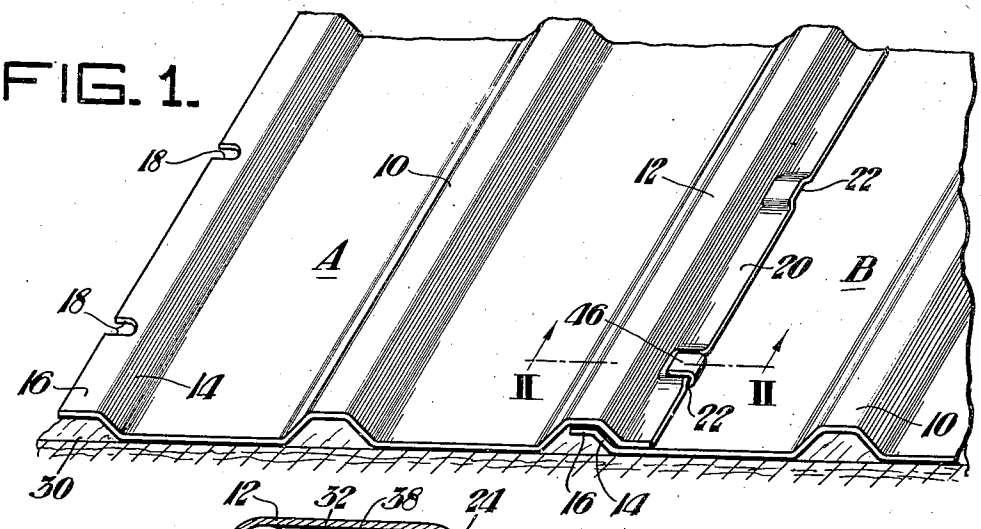


FIG. 2.

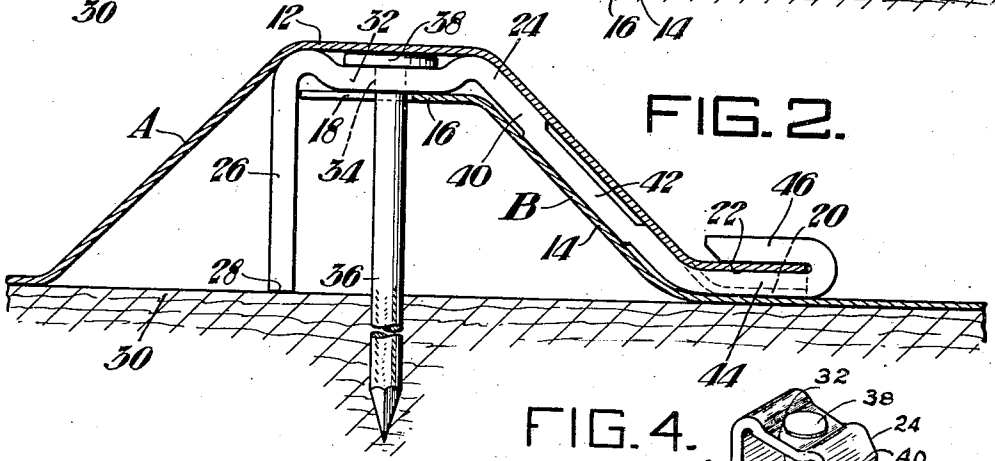


FIG. 4.

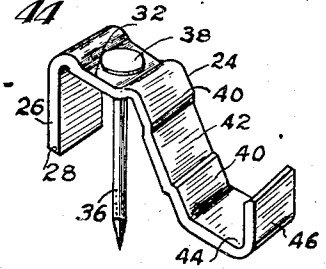


FIG. 3.

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WEATHER SURFACE COVERING

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Application March 25, 1942, Serial No. 436,185

4 Claims. (Cl. 108—33)

The present invention relates to improvements in weather surface covering adapted to be used either for roofing or siding, and aims to provide an improved roofing or siding sheet peculiarly well suited for cooperation and assemblage by means of a novel form of clip adapted to have a portion thereof bent into overlapping relationship with a marginal edge of the sheet.

The above and other features of the invention will be fully apparent from the following detailed disclosure, the accompanying drawing and the appended claims.

Referring in detail to the drawing:

Figure 1 is a perspective view of a pair of overlapped sheets which may be regarded as either a portion of a roof or a portion of the siding of a building;

Figure 2 is an enlarged section on line II—II of Figure 1;

Figure 3 is a view similar to Figure 2 but showing the improved clip prior to the bending of the foot thereof to sheet locking position;

Figure 4 is a detached detail view of the clip and the securing nail which is assembled and sold therewith as a unit.

Referring in detail to the drawing, Figure 1 is a perspective view illustrative of either roofing or siding sheets A and B. Such sheets are generally provided with a central channeled V-ridge 10 and a side similar ridge 12. At one marginal edge of each sheet there is an upstanding oblique portion 14 and a substantially flat portion 16 to match the flattened top of the V-ridge 12 of an adjacent sheet. A plurality of notches 18 are formed in the flange 16 to permit free passage therethrough of a holding nail to be presently refefred to.

At the side edge of each sheet beyond the V-ridge 12 there is formed a flange 20 which is provided with upwardly deflected recesses 22 to accommodate portions of the improved clip. A particular feature of the present invention resides in the arrangement whereby the sheets are held to either roofing boards or siding sheathing boards in such a way that there are no exposed nail holes in any of the sheets. Such an arrangement is made possible by the use of the specially designed clip to now be described which is used in combination with the sheets of the type above referred to.

The improved clip, as best shown in Figures 2 and 4, is indicated as a whole at 24. It will be understood that a plurality of these clips are used along the region of a juncture between the overlapping portions of the two sheets such as indicated at A and B in Figures 1 and 2. Each clip includes a leg 26, the extremity 28 of which contacts the roofing or sheeting board 30. An upper nail receiving portion 32 is apertured at 34 to receive a roofing nail 36, the head 38 of which is seated firmly on the upper surface of the portion 32. The aperture 34 through which the nail is driven is purposely made slightly smaller than the diameter of the nail so that when the two are assembled the nail and the clip become in effect a single unit.

Extending from the flat portion 32 of the clip there is an oblique portion 40 which is inclined at an angle to suit the inclination of the V-ridges. Generally there will be a depressed portion 42 formed in the oblique leg of the clip to provide an air space which is effective to serve as a water brake and prevent seepage of the water upwardly by capillary attraction.

At the lower extremity of the oblique leg of the clip there is a flat foot 44 which is adapted to rest on the upper surface of the underlying sheet B, as shown in Figure 2. Before the parts are finally assembled in the position they are to occupy in the finished surface covering, the extremity 46 of the foot extends upwardly practically perpendicular to the lower plane thereof. The foot portion is designedly intended to occupy the notches 22 formed in the marginal edge flange 20 of the sheet as suggested in Figure 1. After each lower sheet B has been positioned on its support and its flange 16 secured by assembling the clip therewith as shown in Figure 2, another sheet A is overlapped therewith as indicated in Figures 1 and 2. Thereupon the extremity 46 of the foot of the clip is bent over into overlapping relationship with the edge flange 20 of the sheet A, thus firmly securing the adjacent sheets in overlapping relationship.

It is noted that in the assembled structure the nail head 38 is entirely covered and naturally the nail holes or slots 18 through which the nail shank passes are also covered. Thus the combination provides a truly weather proof joint entirely devoid of nail holes or other exposed apertures such as are usually required in fastening devices of the prior art.

While I have described quite precisely certain embodiments of the invention herein illustrated, it is to be understood that the drawing and descriptive matter are to be interpreted in an illustrative rather than a limiting sense.

I claim:

1. A weather surface covering comprising a pair of juxtaposed sheets with overlapping mar-

ginal portions, the marginal portion of the upper sheet being bent to form an outwardly projecting V-like ridge, the margin of the lower sheet having portions bent into substantial parallelism with said V-ridge, a clip interposed between the overlapping portions of the said juxtaposed sheets, said clip having a nail extending therethrough and a leg substantially parallel therewith, the lower sheet having a slotted edge portion to receive the nail and the clip having a foot contacting the upper surface of a lower sheet with a bent extremity overlapping the upper surface of the marginal edge of the upper sheet.

2. In a structure of the character described, supporting boards, a weather surface covering therefor comprising juxtaposed sheets having marginal portions arranged in overlapping relationship, the inner portion of one sheet including an oblique wall merging with a straight marginal flange substantially parallel with but spaced from said supporting boards, a clip having a leg contacting the supporting board and an upper part overlapping said marginal flange, a nail extending through the clip and through an aperture in said flange, said clip having an oblique portion contacting the oblique wall of the said sheet, the overlying sheet having an outwardly pressed ridge portion overlapping the clip and the holding nail therefor, said ridge portion terminating in an edge-flange substantially parallel with the supporting boards and said clip having a foot whose extremity is clinched over the last named parallel marginal flange.

3. The structure as defined in claim 2 wherein the said edge-flange is formed with notched portions to accommodate the feet of said clips.

4. A clip of the character described for securing weather surface covering sheets to supporting boards, consisting of a leg adapted to be positioned perpendicular to the surface of said supporting boards, a nail receiving portion substantially perpendicular to said leg, a nail piercing the latter portion and making a tight fit therewith, the clip having an oblique portion from the lower end of which there extends laterally a foot disposed substantially parallel to the supporting boards, the extremity of said clip being adapted to be clinched over into overlapping relation with the flange of a juxtaposed sheet.

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