

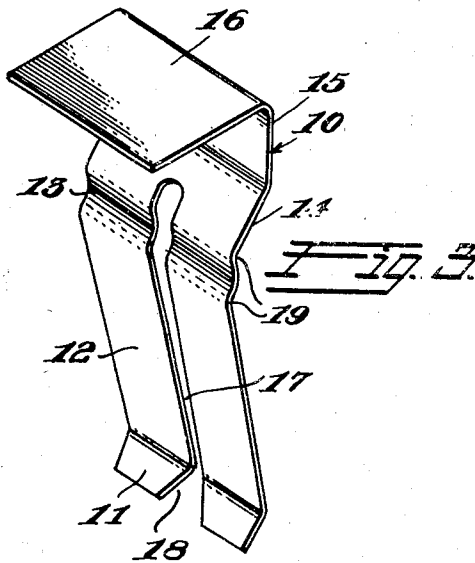
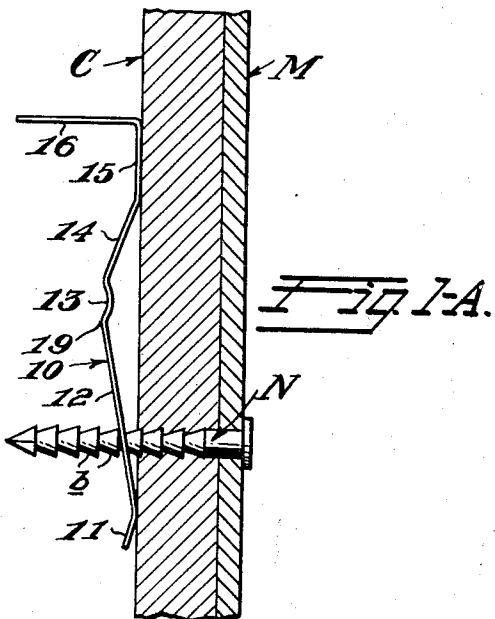
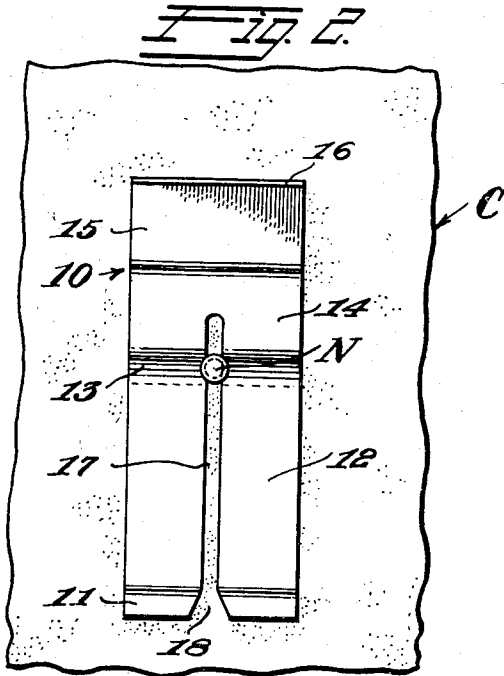
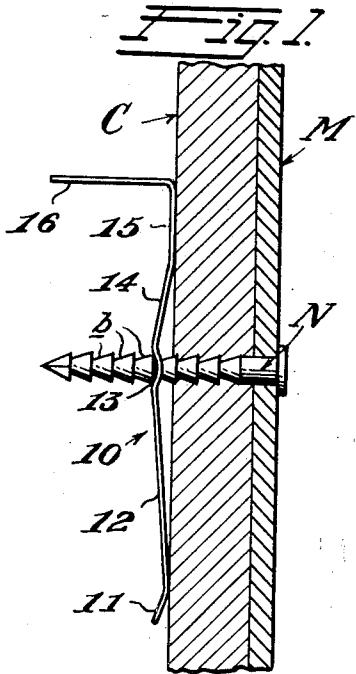
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SECURING CLIP

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SECURING CLIP

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4 Claims. (Cl. 85-51)

This invention relates to securing devices and particularly to a securing device for retaining nails in set position in composition or other like soft materials.

In the application of asbestos cement products, such as asbestos cement siding shingles or other products which are nailed to soft composition boards, such as "Celotex" or the like, serious difficulties have heretofore been encountered due to the ineffective holding power of the nails in the soft composition board.

Various efforts have been made to overcome such difficulties, such as the provision of roughened or barbed nails to effect increased purchase between the nails and soft composition material. It has, however, been found that barbed or the like nails failed to offer a satisfactory solution due to the ready give of the composition material. Prior efforts have accordingly included the provision of securing means in the form of clips for positively retaining the barbed nails in driven position but such proposed clips were of rather complicated construction, and accordingly expensive and they further required considerable time in application thereby adding to the expense in installing siding on soft composition sheathing.

Accordingly, a primary object of the present invention is the provision of means for securing and maintaining sheet siding in firm contact with soft composition sheathing at relatively low cost, both from the standpoint of material and labor.

A further object of the invention is the provision of a yieldable clip of maximum simplicity in construction and which is adapted for quick and easy hand application to a barbed nail for retaining such nail against retraction from soft composition material into which it has been driven.

A still further object of the invention is the provision of a barbed nail retaining clip including portions for bearing engagement with a sheet of composition sheathing, and an intermediate yieldable portion for receiving the shank of a barbed nail and yieldably reacting against a barb thereof for retaining the nail against retraction from the sheathing.

For a more complete understanding of the nature and objects of the invention, reference will be had to the following detailed description, taken in connection with the accompanying drawing, wherein—

Fig. 1 is a fragmentary vertical section through a soft composition sheathing and a sheet of siding showing the improved siding retaining means in side elevation;

Fig. 1—A is a view similar to Fig. 1 showing the retaining clip in the initial step of application;

Fig. 2 is an elevational view as seen from the left of Fig. 1; and

Fig. 3 is a perspective view of the clip in accordance with a preferred embodiment thereof.

Referring now in detail to the drawing, C designates a fragmentary portion of a sheathing of soft composition material to which sheet siding M such as asbestos cement shingles is secured.

While only one securing element is illustrated, it is to be understood that a plurality thereof are used at such spaced intervals as found necessary to efficiently hold the siding in firm contact with the sheathing.

Each securing element embodies a nail N and a retaining clip 10.

The nail N is preferably provided with axially spaced barbs b and is driven through the siding M and sheathing C into the position indicated in Figs. 1 and 1—A.

The clip 10 is designed to positively retain the nail in this driven position and embodies a relatively thin sheet of spring metal which is suitably bent to provide a toe portion or lead-in end 11, from which extends an inclined camming portion 12 terminating in a barb retaining channel 13.

The clip further includes a portion 14 oppositely inclined to the portion 12, with the channel 13 at the apex of the portions 12 and 14.

The clip further includes a flat sheathing engaging and bearing portion 15 which merges into a right angular finger gripping lip 16 to facilitate application of the clip to the nail.

A slit 17 extends longitudinally of the clip through the portions 11, 12, and 13 and terminating in the portion 14.

The slit is positioned midway between the side edges of the clip and is flared outwardly in the portion 11 as indicated at 18 to permit easy entrance of the nail N.

The improved clip is assembled as indicated in Fig. 1—A wherein the slit 17, or flared portion 18 thereof is engaged over the nail shank at the base of the barb b nearest the sheathing C. The clip 10 is then pushed vertically by the fingers of a workman in pressure contact with the lip 16 with the nail shank riding in the slit until the channel 13 is reached as indicated in Fig. 1.

It will be noted from Fig. 1—A that the portions 12 and 14 are initially at a relatively large angle to the engaged face of sheathing C and

with the channel 13 spaced substantially from such face.

In the application of the clip, however, the reaction between the engaged barb b and sheathing C engaged by portions 11 and 15 will cause portions 12 and 14 to substantially flatten with a corresponding yieldable reaction against the nail in a direction toward its point thereby tending to force the nail into the sheathing and resisting withdrawal of the nail.

The channel 13 by engagement of the opposing shoulders 19 with the barb holds the clip in assembled relation with the nail.

It will be noted from Fig. 3 that the slit 17 is substantially wide at its closed end and tapers toward its open end whereby the opposite sides of the clip will be pressed apart in the application of the clip to the nail resulting in further frictional grip on the shank of the nail.

The relatively large area bearing portion 15 substantially distributes the strain of the applied clip.

The clip may be constructed of any desired or suitable material and since it is located on the inside, it will not be subject to corroding and thereby need not be coated to prevent detrimental effect of the atmospheric elements.

While I have disclosed but a single specific embodiment of my invention, such is to be considered as illustrative only, and not restrictive, the scope of the invention being defined in the subjoined claims.

What I claim and desire to secure by U. S. Letters Patent is:

1. A clip for retaining a barbed nail in driven position comprising an elongated body member having bearing portions adjacent the ends thereof, a yieldable portion intermediate the bearing portions having a slit extending longitudinally of the body member, a barb receiving channel adjacent one end of the slit, and a finger gripping lip at one end of the body member at right angles to the adjacent bearing portion.

2. A clip for retaining a barbed nail in holding position in soft composition material comprising an elongated body member having a plane bearing portion adjacent one end thereof, a finger gripping lip at said end and at right angles to the bearing portion, the body member further including opposed portions inclined relatively to each other and said bearing portion, a nail receiving slit extending lengthwise of one of said inclined portions and into the other, and a channel in said body member at the junction of said inclined portions and intersecting said slit.

3. A clip according to claim 2 together with an inclined lead-in toe portion at the end of said body member opposed to said lip, and said slit flaring outwardly in said toe portion.

4. A clip according to claim 2 wherein the walls of said slit normally converge from the closed end thereof to points adjacent the open end thereof.

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