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Burrows et al.

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[54] **FOUNDATION STRIP FOR CONCRETE MOLDING**

[76] Inventors: **Charles B. Burrows,** 1142 E. Ruth, Phoenix, Ariz. 85020; **Edward A. Vajda,** 8551 E. Thornwood Dr., Scottsdale, Ariz.

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[51] **Int. Cl.** **E04g 17/06**

[58] **Field of Search** ..... 249/33, 34, 219 R

[56] **References Cited**

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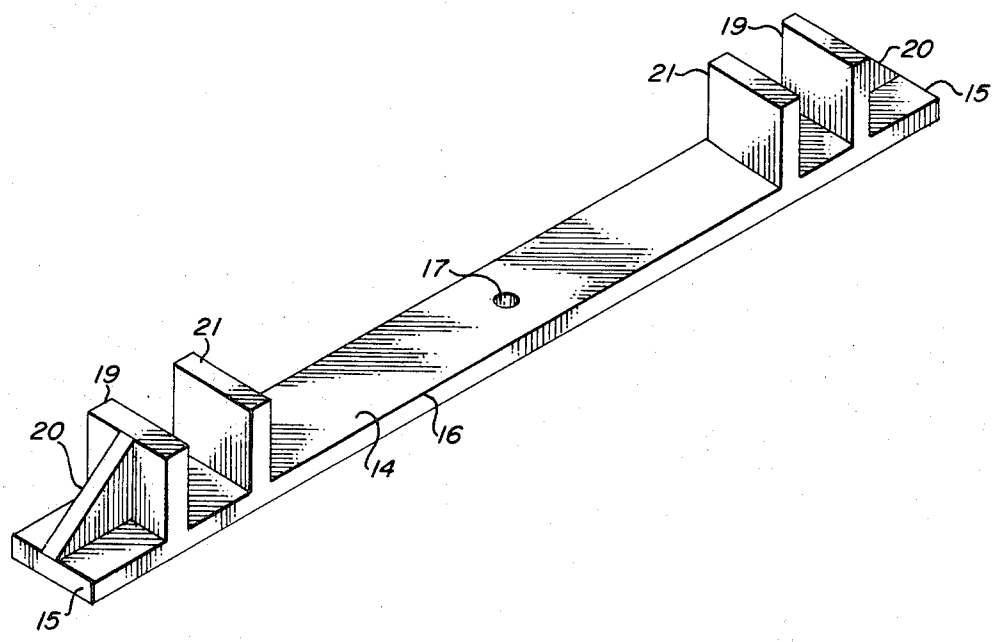
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Primary Examiner—J. Spencer Overholser
Assistant Examiner—B. D. Tobor
Attorney—Eric P. Schellin et al.

[57] **ABSTRACT**

This specification discloses a foundation strip that is used to locate two vertical mold panels in spaced relation on a base and maintain the panels in these positions during the molding of a concrete wall. The strip is an integral one-piece member of plastic and is structurally designed to incorporate the necessary properties of strength and rigidity into the strip when made of plastic, as compared to metal.

2 Claims, 5 Drawing Figures



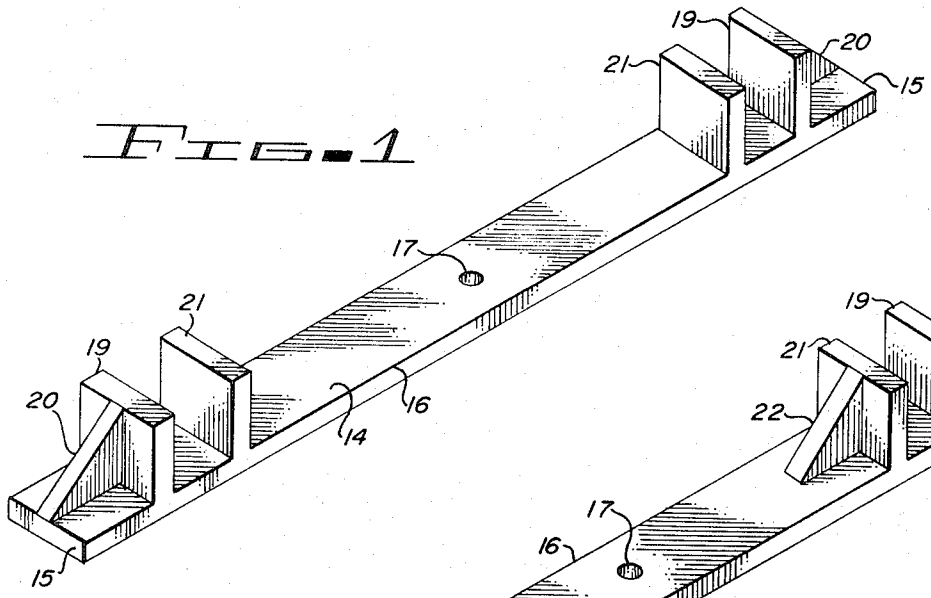


Fig-1

Fig-2

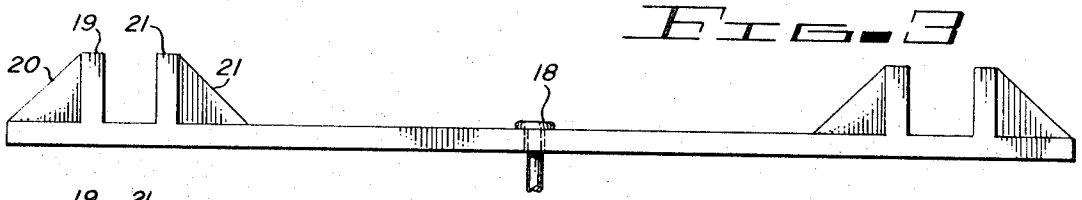


Fig-3

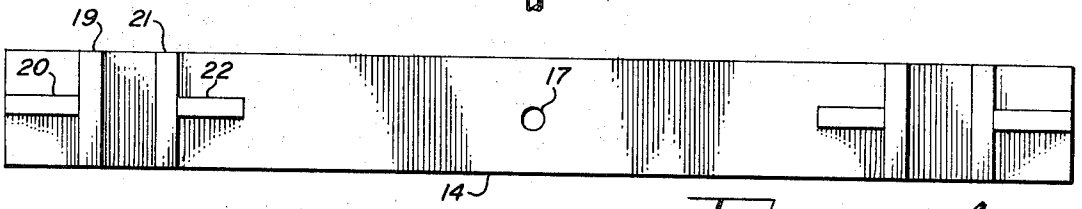


Fig-4

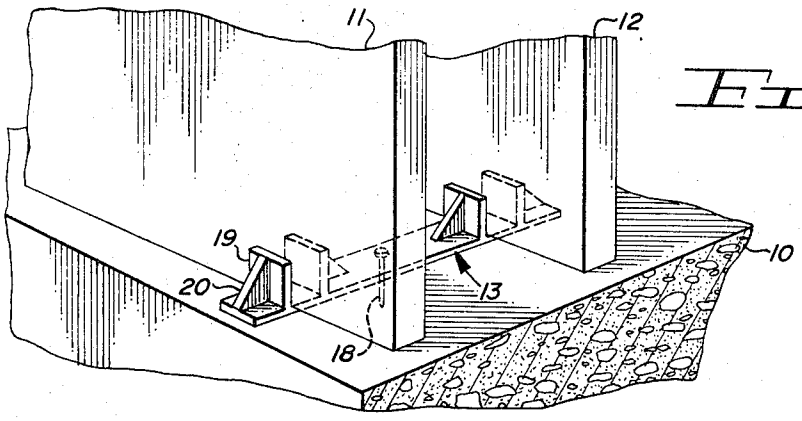


Fig-5

FOUNDATION STRIP FOR CONCRETE MOLDING

The present invention relates to foundation strips used to locate mold panels for the molding of concrete walls and is concerned primarily with such a strip that is made of plastic and all the elements of which are integrally joined.

BACKGROUND OF THE INVENTION

At the present time, the use of devices for locating the lower edges of mold panels on a base in properly spaced relation and to hold such strips in this position during the molding of concrete is widespread and is in fact a necessary incident to the molding of concrete walls.

Known devices for this purpose are of metal and are of two general classes. In one of these classes, the tie or spacing device is of wire, and in the other class, they consist essentially of metallic strips or bands. Examples of the latter class are U.S. Pats. Nos. 1,437,323, 2,378,850 and 2,973,567. These patents all have one feature in common in addition to that of being made of metal. Thus, a band is provided which lies flat on a concrete base and has an upturned flange at each end. Spaced inwardly from each end flange a distance equal to the thickness of a mold element is an upstanding inner flange or tang. These known devices, being made of metal, have the structural properties required of a device of this type. However, metal is quite expensive and the devices are not subject to re-use because they are left in position after the concrete wall is formed.

The present invention is founded on the basic concept of making a foundation strip for concrete molding of plastic and to incorporate into the structural design of the strip features which impart the necessary strength and rigidity thereto.

OBJECTS OF THE INVENTION

With the foregoing conditions in mind, the present invention has in view the following objectives:

1. To provide a foundation strip for concrete molding which is of plastic and all the elements of which are integrally connected.

2. To provide a foundation strip of the type noted having end edges and outer flanges upstanding from said strip with each flange being spaced inwardly of the end edge and reinforced by a web in the space between the flange and the end edge.

3. To provide, in a foundation strip of the character aforesaid, inner flanges which upstand from the outer flanges a distance corresponding to the thickness of a mold panel which is to be received between each pair of flanges.

4. To provide, in a foundation strip of the kind described, reinforcing webs for the inner flanges.

Various other more detailed objects and advantages of the invention such as arise in connection with carrying out the above ideas in a practical embodiment will, in part, become apparent and, in part, be hereafter stated as the description of the invention proceeds.

SUMMARY OF THE INVENTION

The foregoing objects are achieved by providing a plastic strip that is intended to lie flat on a concrete base and be secured in position thereon. This strip has end edges. Spaced inwardly from each end edge and upstanding from the strip to which it is integrally joined is an outer flange. A supporting web is integrally joined to the strip outside of each flange and to the outer face of that flange. An inner flange upstands inwardly in spaced relation to each outer flange and it is integrally joined to the strip. The flanges of each set of inner and outer flanges are spaced apart a distance to snugly accommodate a mold panel. A reinforcing web is integrally joined to the inner face of each inner flange and the strip.

For a full and more complete understanding of the invention, reference may be had to the following description and the accompanying drawing wherein:

FIG. 1 is a perspective of a foundation strip for concrete molding embodying the precepts of this invention and illustrating the invention in its simpliest form;

FIG. 2 is another perspective of a modification in which the inner flanges are reinforced;

FIG. 3 is a view in side elevation of the strip of FIG. 2;

FIG. 4 is a top plan view of the strip of FIGS. 2 and 3, and

FIG. 5 is a perspective illustrating how the strip positions a pair of mold panels on a concrete base.

Referring now to the drawing, wherein like reference characters denote corresponding parts, and first more particularly to FIG. 5, a concrete base is designated **10.** An outer mold panel **11** and an inner mold panel **12** are positioned on the upper face of base **10** by a foundation strip of this invention which is indicated generally at **13.**

Referring now to FIGS. **2, 3** and **4,** it is important to note that the strip **13** is of plastic, and may be of any of the several now widely known plastics having the properties required of the subject strip and which are susceptible to being molding into the configuration illustrated. Strip **13** comprises a main body portion **14** of elongate, rectangular shape presenting end edges **15** and side edges **16.** The main body portion **14** is formed with an aperture **17** which is preferably located centrally of both the side and end edges and which accommodates a nail **18** that is used in securing the strip **13** in position on base **10** by being driven therethrough in a well-known manner.

Spaced inwardly from each end edge **15** is a flange **19** that is integral with the main body portion **14.** Standing alone in an unsupported position, flanges **19** would not be sufficiently strong and rigid to perform the holding and supporting functions required of them. To provide such support, a web **20** of triangular shape is integrally joined to main body portion **14** at its lower edge and to the outer face of each flange **19** at its inner edge. The webs **20** are located substantially midway the side edges **16.**

An inner flange **21** is associated with each outer flange **19** and is spaced therefrom a distance equal to the thickness of mold panels **11** and **12.** Each flange **21** is integrally joined to body portion **14.**

Under many conditions, the integral joinder of the inner flanges **21** to the main body portion **14** is sufficient to provide the necessary support for these flanges. However, this supporting effect may be supplemented by webs **22** which are located midway the side edges **16** and on the inner faces of flanges **21.** Each web **22** is integral with the flange it supports and the main body portion.

A slightly modified form of the invention is illustrated in FIG. **1.** This form is the simpliest embodiment, in

that the webs which support the inner flanges **21** are omitted.

While preferred specific embodiments are herein disclosed, it is to be clearly understood that the invention is not to be limited to the exact constructions, mechanisms and designs illustrated and described, because various modifications of these details may be provided in putting the invention into practice.

What is claimed is:

1. In a foundation strip for locating and holding in position a pair of spaced mold panels on a base for the molding of a concrete wall, said strip being of plastic:

a. a main body portion of elongate, rectangular shape presenting end and side edges;

b. said main body portion being formed with an aperture between said end edges, said aperture being adapted to receive a nail which secures the strip in position on said base;

c. a pair of outer flanges, each of which is integral with the said main body portion and which upstands therefrom at a distance spaced from an end edge;

d. a supporting member in the form of a triangularly shaped web for each of said outer flanges, each supporting member being located midway the side edges of said main body portion and having one edge integral with the flange which it supports, and another edge integral with the main body portion between the flange which it supports and the adjacent end edge of the main body portion, and

e. a pair of inner flanges each of which is spaced from an outer flange a distance equal to the thickness of one of said mold panels and integral with said main body portion.

2. The foundation strip of claim **1**, together with a supporting member for each of said inner flanges, each of the supporting members for the inner flanges being in the form of a triangularly shaped web that is located midway of the side edges of said main body portion with one edge thereof being integral with the inner flange which it supports and another edge integral with the main body portion at the side of the inner flange that is more remote from the closest end edge of the main body portion.

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