

Jan. 11, 1938.

J. M. BASS

2,105,280

REINFORCEMENT

Original Filed May 3, 1933

2 Sheets-Sheet 1

Fig. 1.

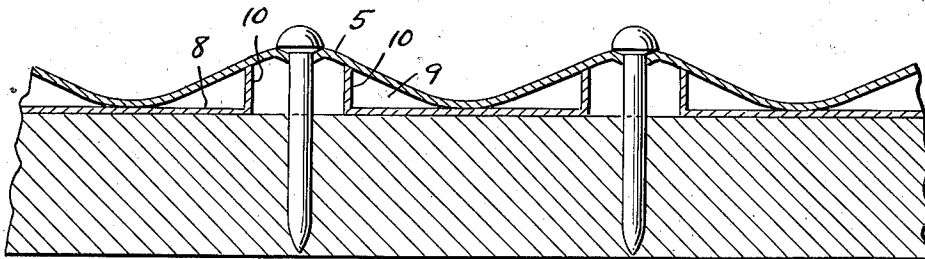
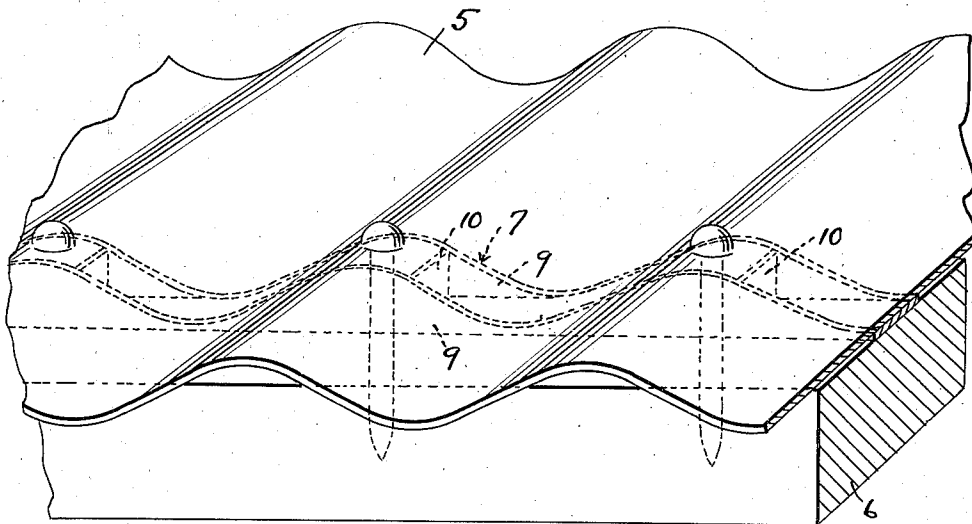


Fig. 2.

Inventor

John M. Bass

By *Clarence A. O'Brien*
Attorney

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2 Sheets-Sheet 2

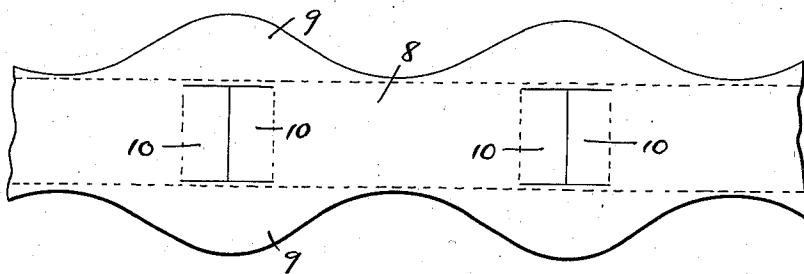
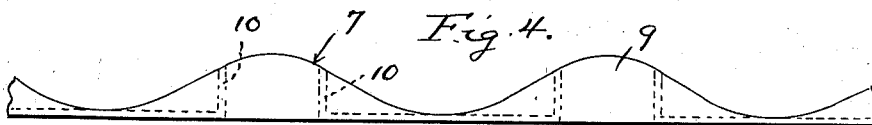
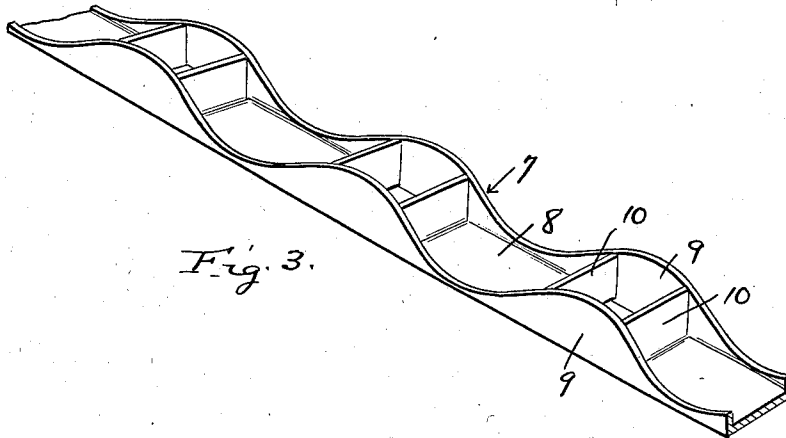


Fig. 5.

Inventor

John M. Bass

By *Clarence A. O'Brien*
Attorney

UNITED STATES PATENT OFFICE

2,105,280

REINFORCEMENT

John M. Bass, Lubbock, Tex.

Refiled for abandoned application Serial No. 669,-
227, May 3, 1933. This application June 26,
1937, Serial No. 150,638

2 Claims. (Cl. 103—13)

This application is refiled for abandoned application Serial No. 669,227, filed May 3, 1933.

This invention appertains to new and useful improvements in corrugated sheet metal roof constructions, and more particularly to a novel form of reinforcement.

The principal object of the present invention is to provide a reinforcement for corrugated sheet metal roofing which in use will serve to prevent the corrugations from being distorted when retaining nails are driven therethrough.

Another important object of the invention is to provide a reinforcement of the character stated which in use will act as a closure between the corrugated sheet and the roof lathing or sheathing so as to exclude wind and inclement weather.

These and various other important objects and advantages of the invention will become apparent to the reader of the following specification.

In the drawings:—

Figure 1 represents a fragmentary perspective view of the corrugated roofing sheet laid.

Figure 2 represents a fragmentary vertical sectional view through the roof construction.

Figure 3 represents a fragmentary perspective view of the reinforcing elements.

Figure 4 represents a fragmentary side elevational view of one of the reinforcing elements.

Figure 5 represents a fragmentary plan view of one of the reinforcing elements stamped and preparatory to being bent to the conformation shown in Figure 3.

Referring to the drawings, wherein like numerals designate like parts, it can be seen in Figure 1 that numeral 5 represents the corrugated sheet metal roofing sheet which is to be laid upon the roofing lathing or sheathing 6. Numeral 7 generally refers to the reinforcing element which is struck from a single strip of sheet metal so as to form a base 8 and side flanges 9—9. The side flanges have their edges cut on curves to conform with the curvature of the corrugations of the roof sheet 5 so as to fit snugly against the bottom side of the sheet. The base 8 of the reinforcing strip is struck at points to provide tongues 10 which are bent upwardly be-

tween the side flanges 9 to form spacers against which the side flanges can abut.

It can thus be seen that with this reinforcing strip, the retaining nails will be driven through the corrugated roof sheet and regardless of the angle at which the nails are driven into the sheathing 6, the heads of the nails in being driven against the roof sheet at points between the flanges of the reinforcement, will bend the area of the roof sheet around the nail openings so that the nail heads will firmly set against the roof sheet to eliminate any likelihood of leakage, which condition arises when there is no support for the corrugations, or in cases where there is support for the corrugations, but where there is no space or recess in the support to allow for the socket forming yield of the roof sheet which forms the snug fitting nail head recesses shown in Figure 2.

Furthermore, the reinforcing strip forms a closure under the iron corrugated sheet to prevent wind or rain from getting under the corrugated sheet.

While the foregoing specification sets forth the invention in specific terms, it is to be understood that numerous changes in the shape, size and materials may be resorted to without departing from the spirit and scope of the invention as claimed hereinafter.

Having described the invention, what is claimed as new is:—

1. A reinforcement for corrugated sheet walls comprising an elongated strip having an out-standing flange thereon cut on curves to conform with the curvatures of the corrugated wall, said strip being struck to provide upstanding tongues which form abutments for the said flanges.

2. A reinforcement for corrugated sheet iron structures comprising a strip having upstanding side flanges corrugated to conform with the curves of a companion corrugated sheet, and cross members between the flanges arranged in pairs and having their upper edge portions flush with the upper edge portions of the flanges.

JOHN M. BASS.