

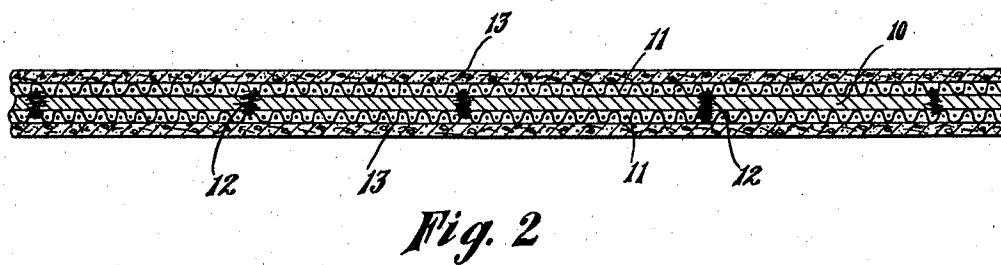
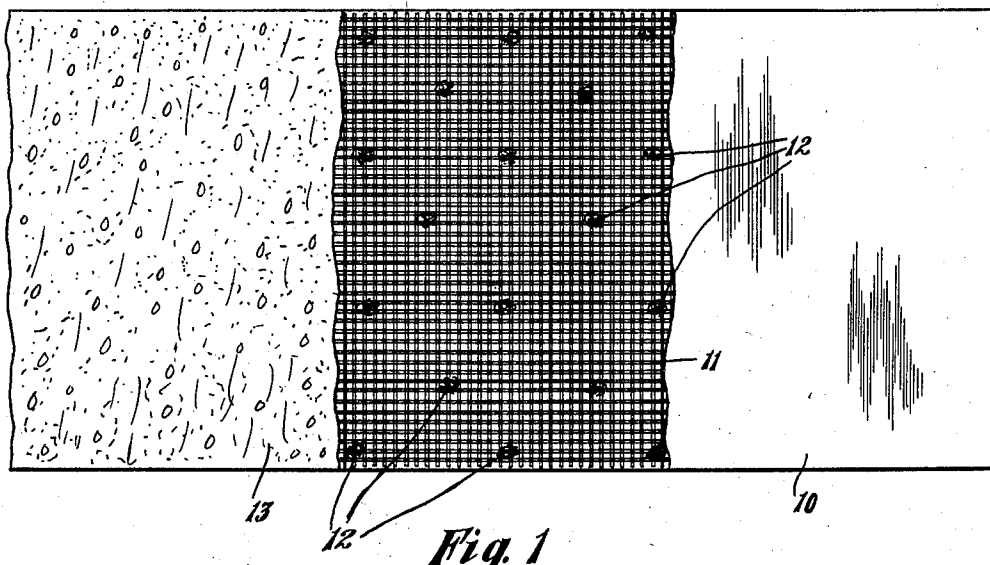
Feb. 24, 1942.

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2,274,189

SHEET ROOFING

Filed Dec. 20, 1938



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UNITED STATES PATENT OFFICE

2,274,189

SHEET ROOFING

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Application December 20, 1938, Serial No. 246,808

2 Claims (Cl. 154—51)

The invention relates to sheet roofing and more particularly to a reinforced coated roofing sheet.

An object of the invention is to provide a roofing sheet formed of sheet metal having a foraminous sheet of woven wire mesh or similar material spot welded to the surface thereof at spaced intervals and covered with a bitumen coating of asphalt, bituminous macadam, or bituminous mastic.

Another object is to provide a roofing sheet of the character referred to having a reinforcing mesh sheet attached to each side thereof and coated with asphalt or the like.

The above objects together with others which will be apparent from the drawing and following description or which may be later referred to, may be attained by constructing the improved roofing sheet in the manner illustrated in the accompanying drawing in which

Figure 1 is a plan view of a roofing sheet embodying the invention with parts of the different layers broken away for the purpose of illustration; and

Fig. 2, an enlarged sectional view through a portion of the sheet.

Similar numerals refer to similar parts throughout the drawing.

In forming the improved roofing, a black iron or steel sheet 10 forms the base of the roofing and to one or both sides thereof is connected a foraminous sheet of woven wire mesh 11, or the like.

This wire mesh is preferably attached to the surface of the black sheet 10 at spaced intervals, as by spot welding as indicated at 12. Where both sides of the black sheet are covered with mesh, the spot welding of both mesh sheets to the black sheet may be accomplished at the same time as indicated in Fig. 2.

Hot liquid asphalt, bituminous macadam, bituminous mastic or the like is then applied to the wire mesh so that the interstices thereof will become filled with the bitumen coating indicated at 13, forming a substantially smooth level outer surface.

When the asphalt coating has sufficiently dried the roofing sheet is ready for use and may be formed in any usual and well-known manner as is common in the manufacture of roofing sheets or may be cut and formed into shingles, if desired.

The foraminous sheet 11 serves as a reinforcement for the asphalt or other coating, requiring a density less than would ordinarily be used of that material, thus, providing for greater expansion and contraction thereof as produced by heat of summer and the cold of winter.

The reinforcing mesh also acts as a retainer for the asphalt or similar material holding it in its position relative to the black sheet, and it will also be seen that by using the lighter gravity of material, evaporation of the solubles therein will require a greater period of time.

Where a mesh sheet and asphalt coating is used upon each side of the black sheet, it will be seen that the black sheet when in use upon the roof will be entirely protected from the effects of the weather upon its outer surface as well as from the effects of any moisture which may enter beneath the sheet.

The reinforced coating of asphalt or the like upon the black sheet takes the place of the usual galvanized coating, but it will be seen that the same is more serviceable than a galvanized sheet.

As is well-known, if the black sheet is left unprotected, iron oxide or ordinary rust will soon deteriorate the same.

Even though the sheet is coated with zinc spelter the eventual result will be rust and decay; what really happens is that the flux used to fasten the zinc coating to the sheet is a solution of water and hydrochloric acid, which in turn produces a hydrous oxide. After this hydrochloric acid has substantially washed away the zinc the iron is then exposed and the subsequent iron oxide or ordinary rust follows.

I claim:

1. The method of making sheet roofing consisting of simultaneously attaching sheets of woven wire mesh to opposite sides of a metal sheet by spot welding therethrough at spaced points, and applying a liquid coating of bitumen to both sheets of mesh so as to cover and embed the mesh within said bitumen and cover both surfaces of the metal sheet.

2. Sheet roofing comprising an imperforate metal sheet, sheets of woven wire mesh covering both sides of the metal sheet and spot welded thereto at spaced points, and a coating of bitumen entirely covering and embedding each sheet of woven wire mesh and covering and protecting both surfaces of the imperforate metal sheet.

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