Oct. 11, 1932. A. C. FISCHER 1,881,438

ROOFING MATERIAL

Original Filed June 30, 1920

Fig. 1.

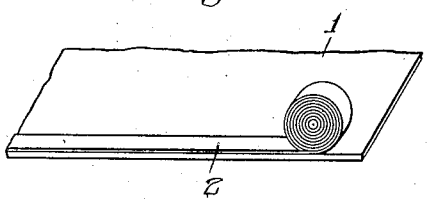


Fig. 2.

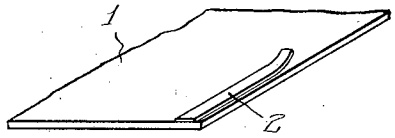


Fig. 3.

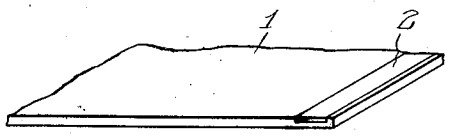


Fig. 4.

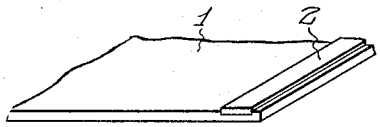


Fig. 5.

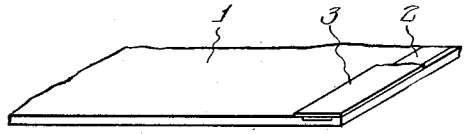
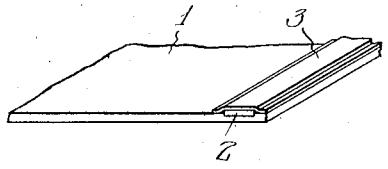


Fig. 6



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By Ballard Moore Atty.

Patented Oct. 11, 1932 1,881,438

UNITED STATES PATENT OFFICE

ALBERT C. FISCHER, OF CHICAGO, ILLINOIS, ASSIGNOR TO THE PHILIP CAREY MANUFACTURING COMPANY, A CORPORATION OF OHIO

ROOFING MATERIAL

Original application filed June 30, 1920, Serial No. 393,016. Divided and this application filed May 9, 1927. Serial No. 190,082.

This application is a division of my application Serial No. 393,016, filed June 30, 1920 for roofing materials.

This invention relates to sheet roofing materials or surfacing materials, and has special reference to the means provided upon or for use in connection with such materials, through which to adapt certain areas of the material for seaming or jointing with or adhering to the building structure or other portions of the material with which it may be associated in use.

Accordingly, the invention consists primarily in providing a mastic joining strip, or other such like means, adapted for application to the roofing material to serve as a cementing element, packing element, or the like.

In order that the invention may be fully understood several embodiments thereof are disclosed by way of illustration in the accompanying drawing.

In said drawing—

Figure 1 is a perspective view of a portion of sheet roofing material provided with one embodiment of the present invention.

Figure 2 is a detail view of a slightly modified embodiment of the subject-matter of Figure 1; and Figures 3 and 4 are further modifications thereof.

Figures 5 and 6 are views representing the arrangement of joining strip shown in Figures 3 and 4, respectively, and provided in addition thereto with the protecting sheath to prevent adhesion of the joining member in the roll.

1 represents a sheet of roofing material, and 2 a joining strip placed thereon at the producing plant in position to occupy the seaming, joining, or adhering area of the material. This strip consists of an elongated piece of paper, felt or fabric completely saturated with a bituminous adhesive that is slow-drying in nature, normally tacky or sticky and substantially lastingly adhesive. The strip may even consist of this bituminous adhesive with a fibrous or other vehicle incorporated therein. As a matter of fact any material of the above described qualities that can be fed from a suitable source, laid upon a strip and caused to adhere to the roofing sheet may be used.

The mastic with which the seaming or joining strip is impregnated may be of varying character according to the method of using it. It may have the inherent quality of lasting stickiness or adhesiveness so that when exposed it renders the roofing material immediately self adhering; or it may be compounded more with a view to affording a packing substance between overlapped sheets of material so as to render weatherproof a joint that is primarily held by nailing; or it may contain a non-drying oil which will be given off gradually into the impregnating substance of an overlying sheet with the effect of dissolving such substance and developing a gradual cementing action at the joint; or it may be of such a nature that it will be normally non-adhesive, but may be readily rendered adhesive by painting over its exposed surface a suitable reagent that will sufficiently dissolve it to cause it to adhere to contacting surfaces. This latter method may likewise be applied to a roll of the seaming tape or strip just previous to putting it into use.

Among the mastics or normally sticky and tacky adhesives which are substantially lastingly adhesive and slow-drying in nature to be found on the open market, and which have been purchasable on the open market long prior to the year 1918, may be mentioned various bituminous adhesives, for instance, the asphaltic departments of the leading petroleum companies of the United States have these adhesives on sale. I have in mind a bituminous adhesive sold by the Texas Company of the United States, known as Texaco 12/14.5 Gravity Flux. This and substantially identical bituminous adhesives have been known for many years and have been constantly sold and are now sold in the open market, and may be obtained by merely describing the characteristic qualities set forth in this application.

According to Figure 2, the strip 2 is held upon the surface of the sheet in position to form a raised portion thereon, and preferably inset slightly from the edge of the sheet.

According to Figure 3, the strip 2 is countersunk in the sheet 1 by laying the strip in a depression in the sheet.

As shown in Figure 4, the strip 2 may be partly countersunk in the sheet 1, and thus allowed to protrude for a portion of its thickness therefrom.

As shown in Figures 5 and 6, the strip of either Figure 3 or Figure 4 can be provided with a protecting sheath 3 in position to prevent contact of the joining strip with extraneous surfaces prior to the time of use of the sheet of roofing material, but which sheath can be readily peeled off to expose the adhesive surface of the strip when the latter is ready for use.

I claim:

1. As an article of manufacture a composition roofing element having applied upon a seaming or jointing area thereof a joining strip comprising a vehicle saturated with a normally, tacky adhesive of substantially lasting adhesiveness to bond with an overlapping element without interposition of additional cementing material.

2. As an article of manufacture a composition roofing element having applied upon a seaming or jointing area thereof a joining strip comprising a vehicle saturated with a normally, tacky adhesive of substantially lasting adhesiveness, and a removable protective sheathing for the face of said strip prior to laying.

3. As an article of manufacture a composition roofing element having applied upon a seaming or jointing area thereof a joining strip countersunk in the thickness of the roofing material, said strip comprising a vehicle saturated with a normally, tacky adhesive of substantially lasting adhesiveness to bond with an overlapping element without interposition of additional cementing material.

4. As an article of manufacture a composition roofing element having applied upon a seaming or jointing area thereof a joining strip countersunk in the thickness of the roofing material, said strip comprising a vehicle saturated with a normally, tacky adhesive of substantially lasting adhesiveness, and a removable protective sheathing for the face of said strip prior to laying.

5. A composition roofing element having a seaming or joining area carrying a normally, tacky material of substantially lasting adhesiveness, to bond with an overlapping element without interposition of additional cementing material, and a removable protecting sheathing for said area.

Signed at Chicago, Illinois, this 3rd day of May 1927.

ALBERT C. FISCHER.