

(54) **ROOFING MATERIAL HAVING IMPROVED IMPACT RESISTANCE**

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(58) **Field of Search** 442/390, 167, 442/171, 170, 389, 381, 104, 148

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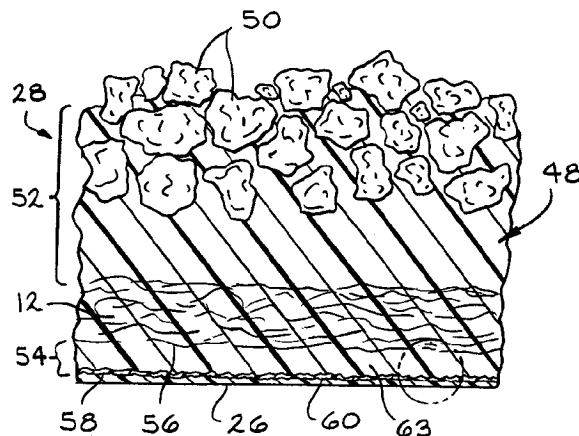
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(57) **ABSTRACT**

An asphalt-based roofing material includes a substrate coated with an asphalt coating. The asphalt coating includes a lower region that is positioned below the substrate when the roofing material is installed on a roof. A web is fused to the lower region of the asphalt coating. A portion of the web and of the asphalt coating have been intermingled by melting, thereby fusing the web and the asphalt coating. A method of manufacturing the asphalt-based roofing material includes the steps of coating a substrate with an asphalt coating, applying a web to the lower region of the asphalt coating, and intermingling a portion of the web and of the asphalt coating by melting, thereby fusing the web to the lower region of the asphalt coating.



32 Claims, 6 Drawing Sheets

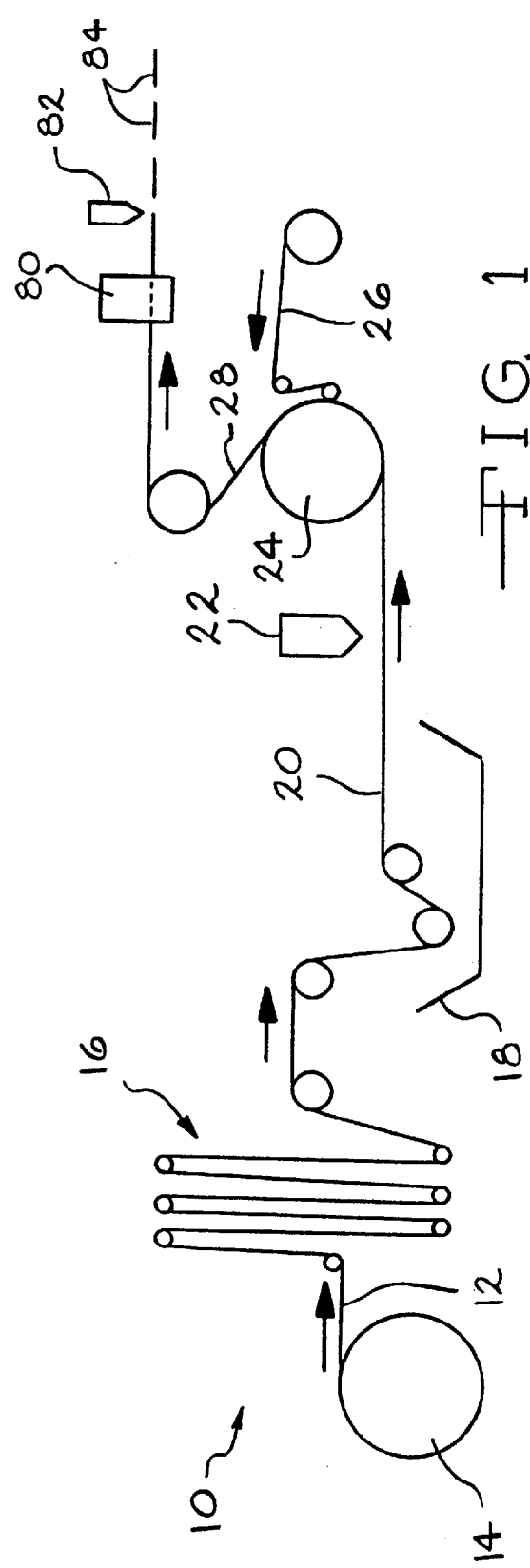


FIG. 1

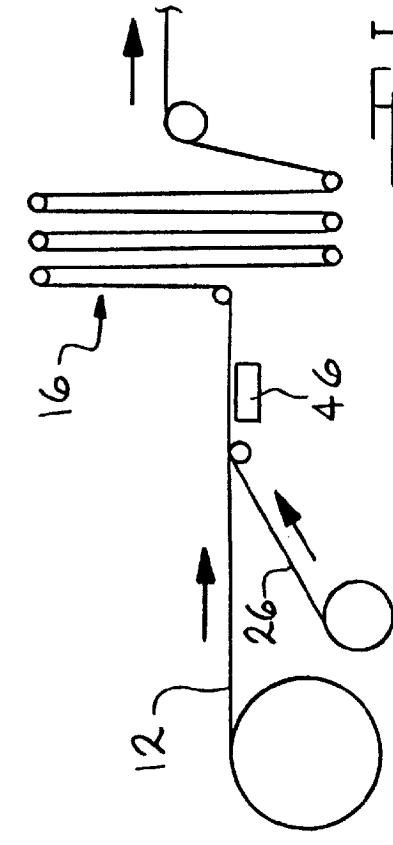


FIG. 3

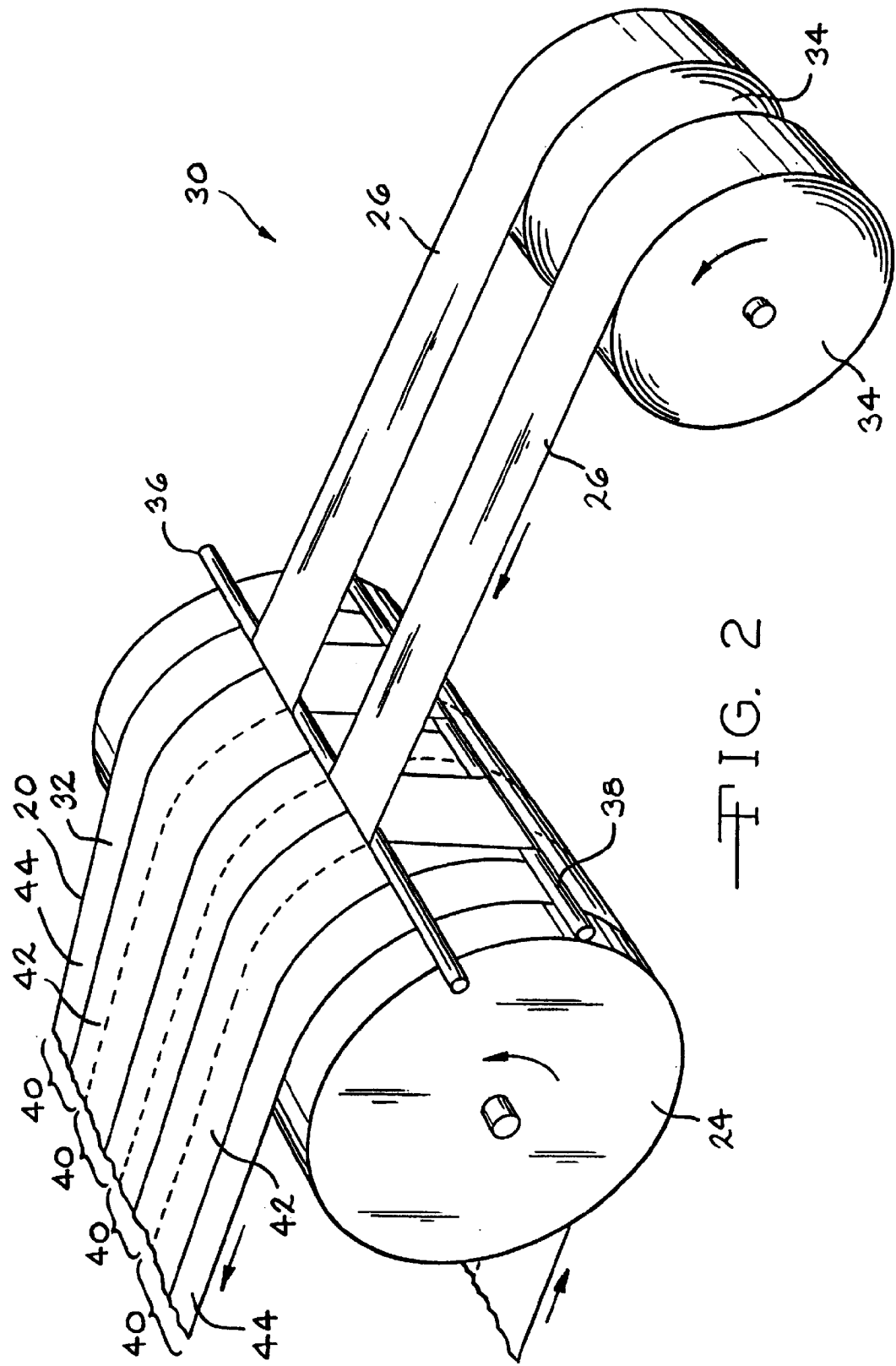


FIG. 2

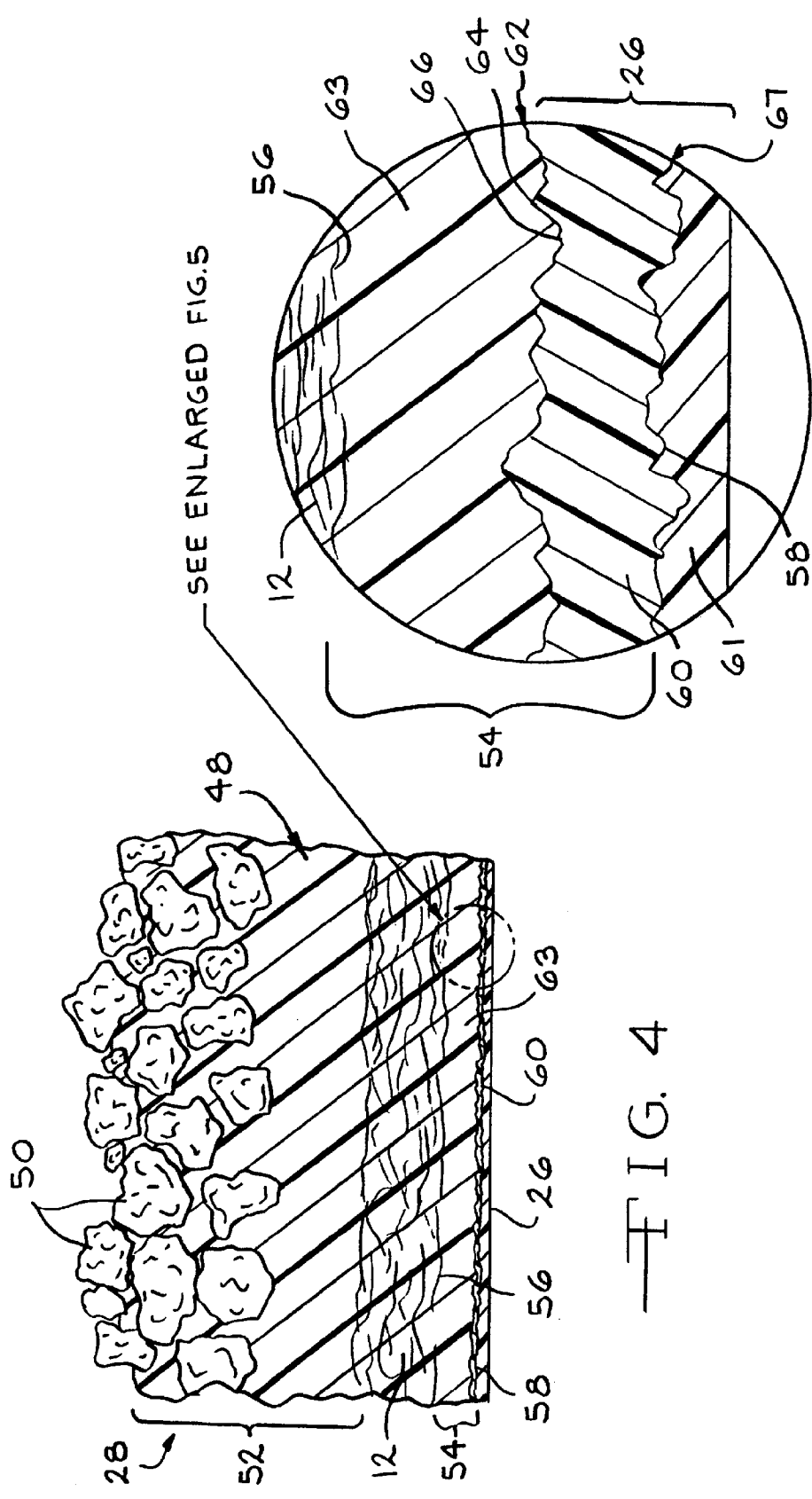


FIG. 4

FIG. 5

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