Oct. 24, 1933. C. J. PATER 1,932,144

BUILDING MATERIAL

Filed Feb. 26, 1926

Fig. 1

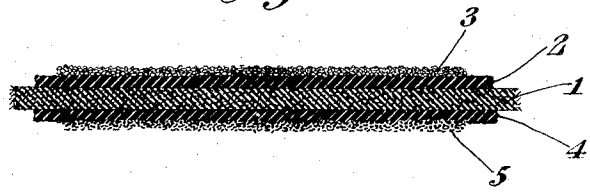
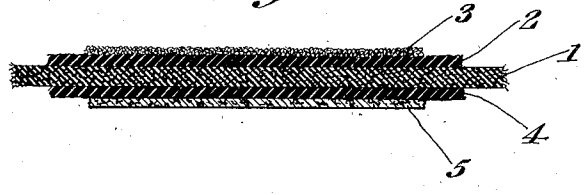


Fig. 2.



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UNITED STATES PATENT OFFICE

1,932,144

BUILDING MATERIAL

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3 Claims. (Cl. 154—51)

My invention relates to roofing material. It provides a roofing material which while giving the protection against the elements of wind, rain, snow, etc., also affords insulation retarding passage of heat or cold into, or from, the interior of the structure to which it is applied. My invention may be made in the form of shingles, either individual or what are commonly known as strip shingles, made from prepared roofing, asbestos cement roofing, or any other material, prepared roll roofing, prepared roofing material for built-up roofs, etc.

In the drawing Fig. 1 is a cross section of one form of my invention and Fig. 2 is a modification thereof. In the drawing 1 is a foundation of rag felt, asbestos felt or other similar material saturated with a suitable bituminous material such as asphalt, etc., upon the upper surface of which is applied a coating 2 into which is embedded soapstone, mica, slate granules, crushed rock, crushed shells or any suitable fire or weather resisting material. On the underside of the foundation 1 is applied a coating 4, preferably of similar material to coating 2, into which is embedded or to which is applied a suitable insulating material 5, such as cork granules, which is a nonconductor of heat, does not radiate heat, is waterproof, light, and a highly efficient insulating material. Where my roofing material is to be put up in rolls a granular cork is preferable because of its permitting rolling of the product. If it is to be in shingles, either individual or strip, whether flexible or rigid, the insulation 5 may be of either granular cork or of sheet cork and of any desired thickness.

My invention is particularly effective and advantageous where the roof is made from shingles laid according to what is termed the American method, or where the roof is of the built up type, in both of which forms a plurality of layers of my material are applied so as to give a plurality of independent layers of insulating material between layers of protective material.

While I have shown and described my invention in the form commonly known as prepared or composition roofing it is also adapted to other roofing materials such as wood shingles, cement asbestos roofing materials in which approximately 85% cement and 15% asbestos is used, or slate shingles etc. As will be readily understood when such materials as wood, cement-asbestos or slate roofings and other types of roofing are used the cork insulating material 5 may be a sheet material of the desired thickness to give the insulating qualities desired cemented to the under side of the wood, cement asbestos, slate and other roofing materials by a suitable adhesive coating 4 of bituminous material or other suitable adhesive although I prefer one of a waterproof character so as to obviate the possibility of the insulating material becoming loosened from the foundation material by the action of the rain or snow.

My invention is adapted for use as an insulation material for houses, cars, etc., can be used as a lining adapted to provide both insulating and protective qualities.

I claim—

1. A roofing material composed of a foundation portion, a layer of granular mineral material on the exposable surface thereof, and a layer of cork on the opposite surface thereof.

2. A shingle composed of a flexible foundation material, a layer of mineral material on the exposable surface thereof, and a layer of granular cork on the opposite surface thereof.

3. A roofing material having a foundation portion, an exposable surface of weather resistant material, and a layer formed of cellular heat-insulating material on the opposite surface thereof.

CARL J. PATER.

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