

Title (en)

A THERMOSET COMPOSITE MATERIAL AND STRUCTURAL COMPONENT AND THE METHOD OF MAKING FROM ENGINEERED RECYCLED RUBBER POWDER

Title (de)

WÄRMEHÄRTENDER VERBUNDSTOFF UND STRUKTURBAUTEIL SOWIE VERFAHREN ZUR HERSTELLUNG VON TECHNISCH MANIPULIERTEM RECYCELTEM KAUSCHUKPULVER

Title (fr)

MATÉRIAU COMPOSITE THERMODURCI ET COMPOSANT STRUCTUREL AINSI QUE PROCÉDÉ DE FABRICATION À PARTIR D'UNE POUDRE DE CAOUTCHOUC RECYCLÉ RÉALISÉE SUR PLANS D'INGÉNIEURS

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Application

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Abstract (en)

[origin: WO2017014718A1] A thermoset composite material and composite railroad crosstie fabricated from the thermoset composite material that comprises a substantially homogeneous blend of an amount of vulcanized rubber particles, polyurea binding agent and urea melamine. The thermoset composite material may also contain a granulated silica material. The thermoset composite material may comprise about 30% to about 50% by weight of the vulcanized rubber particles, and it is subjected to compression molding at a predetermined temperature and pressure for a resident time period forming the composite railroad crosstie. The thermoset composite material and railroad crosstie may further comprise a fibrous glass material in the form of unbundled fibers and/or one more glass mats encapsulated within the thermoset composite material. In addition or alternatively, an elongated core insert may be encapsulated in the thermoset composite material.

IPC 8 full level

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- See references of WO 2017014718A1

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