

Title (en)
METHOD FOR MANUFACTURING AN ELECTRICALLY CONDUCTIVE MATERIAL, ELECTRICALLY CONDUCTIVE MATERIAL, AND RADIATOR WITH ELECTRICALLY CONDUCTIVE MATERIAL

Title (de)
VERFAHREN ZUR HERSTELLUNG EINES ELEKTRISCH LEITENDEN MATERIALS, ELEKTRISCH LEITENDES MATERIAL SOWIE STRAHLER MIT ELEKTRISCH LEITENDEM MATERIAL

Title (fr)
PROCEDE DE FABRICATION DE MATERIAU CONDUCTEUR D'ELECTRICITE, MATERIAU CONDUCTEUR D'ELECTRICITE, ET RADIATEUR AVEC UN TEL MATERIAU CONDUCTEUR D'ELECTRICITE

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Application
EP 12734807 A 20120704

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Abstract (en)
[origin: WO2013020620A2] A process for producing an electrically conductive material (5) is proposed, wherein the process comprises the steps: a. provision of a carbon fibre (3), b. provision of a polymer fibre (4) which is different from the carbon fibre (3), c. provision of a mixture in the form of a sheet-like lay-up (2) of the carbon fibre (3) and the polymer fibre (4), d. optionally drying of the mixture (1), e. consolidation of the mixture (1), f. optionally cutting-to-size of the mixture (1), g. carbonization of the mixture (1), where the carbonized polymer fibres (4) form a carbon-based, electrically conductive matrix (6) which at least partly surrounds the carbon fibres (3). Furthermore, electrically conductive materials (5) which can be obtained in a corresponding manner are proposed. Finally, a radiator (12) which contains a transparent or translucent housing (13) and an electrically conductive material (5) according to the invention is provided. The invention makes it possible to provide electrically conductive materials (5) having an increased electrical resistance. In this way, radiators (12), in particular, having virtually any length can now be operated at conventional grid voltages.

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Citation (examination)
• JAN HAUSDING: "Multiaxiale Gelege auf Basis der Kettenwirktechnik-Technologie für Mehrschichtverbunde mit variabler Lagenanordnung", DISSERTATION, 17 December 2010 (2010-12-17), Technische Universität Dresden, XP055432685, Retrieved from the Internet <URL:http://www.qucosa.de/fileadmin/data/qucosa/documents/2771/Dissertation_Hausding.pdf> [retrieved on 20171206]
• ANONYMOUS: "Gelege (Textiltechnik) - Wikipedia", 27 June 2016 (2016-06-27), XP055432244, Retrieved from the Internet <URL:https://de.wikipedia.org/wiki/Gelege_(Textiltechnik)> [retrieved on 20171205]

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