

Title (en)  
THERMALLY CONDUCTIVE, FIBRE-REINFORCED PLASTIC FOR ELECTRIC MOTOR HOUSINGS, AND METHOD FOR THE PRODUCTION AND USE THEREOF

Title (de)  
WÄRMELEITFÄHIGER, FASERVERSTÄRKTER KUNSTSTOFF FÜR ELEKTROMOTORENGEHÄUSE SOWIE VERFAHREN ZUR HERSTELLUNG UND VERWENDUNG DAZU

Title (fr)  
MATIÈRE PLASTIQUE RENFORCÉE PAR FIBRES À CONDUCTIVITÉ THERMIQUE POUR CARTERS DE MOTEURS ÉLECTRIQUES ET PROCÉDÉ DE PRODUCTION ET D'UTILISATION DE LADITE MATIÈRE PLASTIQUE

Publication  
**EP 3001840 A2 20160406 (DE)**

Application  
**EP 14752808 A 20140808**

Priority  
• DE 102013219765 A 20130930  
• EP 2014067084 W 20140808

Abstract (en)  
[origin: WO2015043814A2] The invention relates to a thermally conductive, fibre-reinforced plastic for electric motor housings, in particular a low-weight housing, of light-weight construction. According to the invention, a new housing structure for electric motors is provided, said housing structure having material modifications by fibre-reinforced plastic such as carbon-fibre-reinforced plastic for increasing the thermal conductivity in the thickness direction by introducing materials of higher thermal conductivity, such as metal pins, in combination with the housing cooling via a cooling jacket through which fluid flows. This represents novel technology for producing a heat-dissipating housing using fibre composite technology.

IPC 8 full level  
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CPC (source: EP US)  
**B32B 5/08** (2013.01 - EP); **B32B 5/12** (2013.01 - EP); **B32B 5/22** (2013.01 - EP); **B32B 5/24** (2013.01 - EP); **B32B 5/26** (2013.01 - EP); **B32B 25/04** (2013.01 - EP); **B32B 25/10** (2013.01 - EP); **B32B 27/08** (2013.01 - EP); **B32B 27/12** (2013.01 - EP); **C08J 5/243** (2021.05 - EP US); **C08J 5/249** (2021.05 - EP US); **H02K 5/08** (2013.01 - EP); **H02K 5/203** (2021.01 - EP US); **H02K 9/223** (2021.01 - EP US); **B32B 2250/05** (2013.01 - EP); **B32B 2260/00** (2013.01 - EP); **B32B 2260/021** (2013.01 - EP); **B32B 2260/046** (2013.01 - EP); **B32B 2262/02** (2013.01 - EP); **B32B 2262/0269** (2013.01 - EP); **B32B 2262/10** (2013.01 - EP); **B32B 2262/103** (2013.01 - EP); **B32B 2262/105** (2013.01 - EP); **B32B 2262/106** (2013.01 - EP); **B32B 2262/108** (2013.01 - EP); **B32B 2262/14** (2013.01 - EP); **B32B 2307/202** (2013.01 - EP); **B32B 2307/302** (2013.01 - EP); **B32B 2457/00** (2013.01 - EP); **B32B 2457/04** (2013.01 - EP); **H02K 9/227** (2021.01 - EP US)

Citation (search report)  
See references of WO 2015043814A2

Citation (examination)  
• DE 10319852 B3 20041209 - DAIMLER CHRYSLER AG [DE]  
• US 2004127600 A1 20040701 - BAUER MORITZ [DE], et al

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