

Title (en)
CARBON FIBER SURFACE OILING AGENT CHANGING METHOD AND CARBON FIBER SURFACE OILING AGENT CHANGING APPARATUS

Title (de)
KOHLENSTOFFFASEROBERFLÄCHEN-ÖLUNGSMITTELÄNDERUNGSVERFAHREN UND KOHLENSTOFFFASEROBERFLÄCHEN-
ÖLUNGSMITTELÄNDERUNGSVORRICHTUNG

Title (fr)
PROCÉDÉ DE MODIFICATION D'UN AGENT D'ENSIMAGE DE SURFACE DE FIBRES DE CARBONE ET APPAREIL DE MODIFICATION D'UN
AGENT D'ENSIMAGE DE SURFACE DE FIBRES DE CARBONE

Publication
EP 3348685 A1 20180718 (EN)

Application
EP 17000055 A 20170112

Priority
EP 17000055 A 20170112

Abstract (en)
A carbon fiber surface oiling agent changing method and a carbon fiber surface oiling agent changing apparatus are provided. The carbon fiber surface oiling agent changing method includes providing a raw material step; performing a desizing step; performing a plasma surface treatment step; and performing a sizing step. In the plasma surface treatment step, the impurities that originally adhere to the surface of the carbon fiber (71) can be broken to form small molecules and blown away through the physical and chemical reaction of the plasma gas flow, enabling the surface of the carbon fiber (71) to be roughened and provided with functional groups, which is beneficial to achieve high-quality interface bonding of the carbon fiber (71) and the matrix resin in the subsequent sizing step, thereby enhancing the characteristics of carbon fiber composite materials.

IPC 8 full level
D01F 11/14 (2006.01); **D01F 11/16** (2006.01); **D06M 10/02** (2006.01); **D06M 101/40** (2006.01)

CPC (source: EP)
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Citation (search report)
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Cited by
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AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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