

Title (en)

Procedure for the fabrication of a fibrous preform made of fire-resistant fibres in order to produce a composite material.

Title (de)

Verfahren zur Fabrikation einer faserigen Rohrform gebildet aus feuerfesten Fasern zur Herstellung eines Verbundwerkstoffes.

Title (fr)

Procédé de fabrication d'une préforme fibreuse formée de fibres réfractaires pour la réalisation d'une pièce en matériau composite.

Publication

EP 0489637 A1 19920610 (FR)

Application

EP 91403260 A 19911202

Priority

FR 9015128 A 19901203

Abstract (en)

[origin: JPH0586534A] PURPOSE: To obtain a densified fibrous preform easily by forming a fibrous preform with a parallel and specific discontinuous fiber and a covering yarn, and then releasing a binding of the discontinuous fiber in a preform volume by eliminating the covering yarn. CONSTITUTION: A preform is obtained by uniting a discontinuous fiber group disposed parallel to one another without twist and made of carbon fibers, refractory fibers of ceramic fibers or its precursor with a covering yarn made of a soluble polymer of the discontinuous fiber group having denier less than 1/10, forming thus obtained yarn into a two dimensional fiber structure by weaving, eliminating the covering yarn in a bath of for example 80 deg.C, and treating several layers by needle punching.

Abstract (fr)

Une préforme fibreuse est fabriquée au moyen d'un fil formé de fibres longues discontinues en matière réfractaire ou en un précurseur de celle-ci, les fibres étant arrangées parallèlement les unes aux autres, en étant non retordues, et l'intégrité du fil est assurée par guipage au moyen d'un fil en matière fugitive. Une pièce en matériau composite est réalisée par densification de la préforme fibreuse après élimination du fil de guipage.

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CPC (source: EP US)

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Citation (search report)

- [A] GB 2021660 A 19791205 - TBA INDUSTRIAL PRODUCTS LTD
- [AD] FR 2608641 A1 19880624 - SCHAPPE SA [FR]
- [A] PATENT ABSTRACTS OF JAPAN vol. 014, no. 509 (C-0776)7 Novembre 1990 & JP-A-02 210 036 (SATO AKIHIRO) 21 Août 1990
- [A] JAPANESE PATENTS GAZETTE SECTION CH, WEEK 8329,11 JUNE 1983 DERWENT PUBLICATIONS LIMITED.,LONDON GB

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