

Title (en)

METHOD FOR MAKING A THERMALLY PROTECTIVE COATING FOR A PROPULSIVE UNIT STRUCTURE

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES WÄRMESCHUTZÜBERZUGS FÜR EINE ANTRIEBSAGGREGATSTRUKTUR

Title (fr)

PROCEDE DE REALISATION D'UN REVETEMENT DE PROTECTION THERMIQUE D'UNE STRUCTURE DE PROPULSEUR

Publication

EP 1587665 A1 20051026 (FR)

Application

EP 03815419 A 20031217

Priority

- FR 0303763 W 20031217
- FR 0216905 A 20021231

Abstract (en)

[origin: FR2849404A1] Production of a thermal protection coating on a propulsion structure involves: (a) continuously dosing and mixing (14) polyurethane(s) (I) with a mixture of polymerizable agents (II) containing predispersed fillers; (b) coating the surface of a rotating cylindrical support (2) by continuously casting a contacting spiral ribbon (18) of the mixture; and (c) prepolymerizing the mixture under ambient pressure so that (I) becomes sufficiently polymerized to be mechanically worked. Independent claims are included for: (1) the production of a propulsion structure consisting of a resistant casing with an internal and/or external thermal protection coating, where the coating is produced by the above method; and (2) a solid fuelled propulsion structure obtained by this method.

IPC 1-7

B29C 53/60; **F02K 9/34**; **F16L 59/02**

IPC 8 full level

B29C 53/60 (2006.01); **F02K 9/32** (2006.01); **F02K 9/34** (2006.01)

CPC (source: EP US)

B29C 53/602 (2013.01 - EP US); **F02K 9/32** (2013.01 - EP US); **F02K 9/346** (2013.01 - EP US); **B29L 2031/712** (2013.01 - EP US); **F05D 2300/611** (2013.01 - EP US)

Citation (search report)

See references of WO 2004065106A1

Designated contracting state (EPC)

DE FR GB IT SE

DOCDB simple family (publication)

FR 2849404 A1 20040702; **FR 2849404 B1 20050325**; AU 2003300645 A1 20040813; BR 0317821 A 20051129; CA 2512105 A1 20040805; CN 100346959 C 20071107; CN 1744984 A 20060308; EP 1587665 A1 20051026; JP 2006512202 A 20060413; RU 2005121496 A 20060120; RU 2330981 C2 20080810; UA 80739 C2 20071025; US 2006073282 A1 20060406; US 7368025 B2 20080506; WO 2004065106 A1 20040805

DOCDB simple family (application)

FR 0216905 A 20021231; AU 2003300645 A 20031217; BR 0317821 A 20031217; CA 2512105 A 20031217; CN 200380109435 A 20031217; EP 03815419 A 20031217; FR 0303763 W 20031217; JP 2004567017 A 20031217; RU 2005121496 A 20031217; UA 2005007487 A 20031217; US 54079005 A 20050627