

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