

Title (en)
SLEEVE, PRODUCTION METHOD THEREOF AND MIXTURE FOR PRODUCTION OF SAME

Title (de)
HÜLSE, HERSTELLUNGSVERFAHREN DERSELBEN UND GEMISCH ZUR HERSTELLUNG DERSELBEN

Title (fr)
MANCHON, SON PROCEDE DE FABRICATION ET MELANGE POUR LA PRODUCTION DUDIT MANCHON

Publication
EP 1543897 B1 20070620 (EN)

Application
EP 02770003 A 20020909

Priority
ES 0200422 W 20020909

Abstract (en)
[origin: EP1543897A1] Procedure for the production of sleeves for mini-deadheads, in which a fluoride-free mixture, consisting of microspheres of aluminium silicate, an oxidizable metal, such as powdered aluminium, an oxidizable agent, magnesium as initiator element of the exothermic reaction, are introduced by blowing in a mould fitted with two cores to produce a sleeve provided with two openings, one of which is closed with a plug before being used.

IPC 8 full level
B22C 1/00 (2006.01); **B22D 7/10** (2006.01); **B22C 1/22** (2006.01); **B22C 9/08** (2006.01); **B22C 9/12** (2006.01)

CPC (source: EP US)
B22C 9/084 (2013.01 - EP US); **B22C 9/088** (2013.01 - EP US); **B22D 7/104** (2013.01 - EP US); **B22D 27/04** (2013.01 - EP US)

Cited by
WO2011154561A1; WO2022219156A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

Designated extension state (EPC)
SI

DOCDB simple family (publication)
EP 1543897 A1 20050622; EP 1543897 B1 20070620; AT E365086 T1 20070715; AU 2002336110 A1 20040329; AU 2002336110 B2 20090903; BR 0215879 A 20050802; BR 0215879 B1 20140121; CA 2498240 A1 20040318; CA 2498240 C 20090519; CN 1305601 C 20070321; CN 1668402 A 20050914; DE 60220841 D1 20070802; DE 60220841 T2 20080228; DK 1543897 T3 20070924; ES 2288560 T3 20080116; HK 1078288 A1 20060609; JP 2005537935 A 20051215; JP 4413780 B2 20100210; MX PA05002612 A 20050505; PT 1543897 E 20070912; SI 1543897 T1 20071231; US 2005247424 A1 20051110; US 2008121363 A1 20080529; WO 2004022262 A1 20040318

DOCDB simple family (application)
EP 02770003 A 20020909; AT 02770003 T 20020909; AU 2002336110 A 20020909; BR 0215879 A 20020909; CA 2498240 A 20020909; CN 02829589 A 20020909; DE 60220841 T 20020909; DK 02770003 T 20020909; ES 0200422 W 20020909; ES 02770003 T 20020909; HK 05110239 A 20051116; JP 2004533521 A 20020909; MX PA05002612 A 20020909; PT 02770003 T 20020909; SI 200230596 T 20020909; US 2669708 A 20080206; US 52685605 A 20050303