

Title (en)
Thermal barrier for rotating shaft

Title (de)
Wellenwärmedämmhülse

Title (fr)
Ecran de protection thermique pour un arbre tournant

Publication
EP 1314895 B1 20100106 (FR)

Application
EP 02292872 A 20021119

Priority
FR 0115076 A 20011121

Abstract (en)
[origin: EP1314895A1] The protective thermal screen comprises a ring (11) of a nickel alloy fretted to the shaft (1) in the thermal transition zone between hot and cold fluids, fastened to the shaft by a transverse nickel alloy peg (12). The nickel alloy ring can be surrounded by an outer ring of austenitic stainless steel fretted at its two ends, with a cylindrical cavity forming a clearance between the two ends, the outer ring having a series of inner annular projections forming zones where the clearance is reduced.

IPC 8 full level
F04D 29/04 (2006.01); **F04D 7/06** (2006.01); **F04D 7/08** (2006.01); **F04D 29/043** (2006.01); **F04D 29/58** (2006.01)

CPC (source: EP US)
F04D 7/06 (2013.01 - EP US); **F04D 7/08** (2013.01 - EP US); **F04D 29/043** (2013.01 - EP US); **F04D 29/588** (2013.01 - EP US)

Cited by
FR3002295A1; WO2014128028A1

Designated contracting state (EPC)
BE ES FR GB SE

Designated extension state (EPC)
SI

DOCDB simple family (publication)
EP 1314895 A1 20030528; EP 1314895 B1 20100106; ES 2338991 T3 20100514; FR 2832543 A1 20030523; FR 2832543 B1 20060414; SI 1314895 T1 20100531; US 2003136553 A1 20030724; US 7021908 B2 20060404

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EP 02292872 A 20021119; ES 02292872 T 20021119; FR 0115076 A 20011121; SI 200230888 T 20021119; US 30076802 A 20021121