

Title (en)

PROCESS FOR PRODUCING AN INTERMETALLIC JOIN

Title (de)

VERFAHREN ZUR HERSTELLUNG EINER INTERMETALLISCHEN VERBINDUNG

Title (fr)

PROCEDE DE PRODUCTION D'UNE LIAISON INTERMETALLIQUE

Publication

EP 0854763 B1 19990901 (DE)

Application

EP 96945136 A 19960920

Priority

- DE 9601808 W 19960920
- DE 19537847 A 19951011

Abstract (en)

[origin: DE19537847A1] The aim is to improve the strength of an intermetallic bond between engine component made from an aluminium alloy and a reinforcing element made from austenitic cast iron. For that purpose, the reinforcing element is annealed in a decarbonising atmosphere before the known prior art alfin process is carried out, in order to obtain an alfin layer largely free of graphite scales.

IPC 1-7

B22D 19/08; **B22D 19/00**

IPC 8 full level

F02F 5/00 (2006.01); **B22D 19/00** (2006.01); **B22D 19/04** (2006.01); **B22D 19/08** (2006.01); **B22D 19/16** (2006.01); **B22D 21/04** (2006.01); **F02F 7/00** (2006.01); **F16J 1/01** (2006.01)

CPC (source: EP US)

B22D 19/00 (2013.01 - EP US); **F02F 7/0085** (2013.01 - EP US); **F05C 2201/021** (2013.01 - EP US)

Citation (examination)

Technische Mitteilungen, Heft 8, 49. Jahrgang, aug. 1956, Seiten 381-384: Über das al-Fin-Verfahren Erfahrungen und Verwendungen, von Dipl. Phys. W. Thiele, Frankfurt a.M.

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

DE 19537847 A1 19970417; BR 9610925 A 19990629; DE 59602965 D1 19991007; EP 0854763 A2 19980729; EP 0854763 B1 19990901; JP H11514931 A 19991221; US 6112802 A 20000905; WO 9713597 A2 19970417; WO 9713597 A3 19970605

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