

Title (en)
Welded LP-turbine shaft

Title (de)
Geschweisste ND-Turbinenwelle

Title (fr)
Arbre soudé de turbine basse pression

Publication
EP 1860279 A1 20071128 (DE)

Application
EP 06010925 A 20060526

Priority
EP 06010925 A 20060526

Abstract (en)
The machine has a shaft (1) formed from an inflow part (6) and an outflow part (7), where the parts are firmly bonded with one another by a welded joint (8). The inflow part is manufactured as a disk body. The shaft is provided in a low-pressure zone, which includes an inflow zone (2), where a medium e.g. vapor, flows in the low-pressure zone. The shaft includes a heat-resistant material e.g. chromium, molybdenum, nickel, tungsten and vanadium composition, at the inflow part which is arranged in the inflow zone.

Abstract (de)
Die Erfindung betrifft eine Strömungsmaschine, die einen Niederdruckbereich aufweist, mit zumindest einer Welle (1), wobei der Niederdruckbereich einen Einströmbereich (2) aufweist. Die Welle (1) weist zumindest an ihrem, im Einströmbereich (2) angeordneten Einströmrteil (6) einen warmfesten Werkstoff, vorzugsweise den Werkstoff 22CrMoNiWV8-8 auf.

IPC 8 full level
F01D 5/06 (2006.01); **F01D 5/02** (2006.01)

CPC (source: EP US)
C22C 38/04 (2013.01 - EP US); **C22C 38/44** (2013.01 - EP US); **C22C 38/46** (2013.01 - EP US); **F01D 5/063** (2013.01 - EP US); **F01D 5/28** (2013.01 - EP US); **F05C 2201/0466** (2013.01 - EP US); **F05D 2300/131** (2013.01 - EP US); **F05D 2300/132** (2013.01 - EP US); **Y10S 464/902** (2013.01 - EP US)

Citation (search report)
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Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
EP 1860279 A1 20071128; CN 101454541 A 20090610; CN 101454541 B 20110907; EP 2024605 A1 20090218; JP 2009538397 A 20091105; JP 5036811 B2 20120926; US 2009263249 A1 20091022; US 8083492 B2 20111227; WO 2007137884 A1 20071206

DOCDB simple family (application)
EP 06010925 A 20060526; CN 200780019467 A 20070223; EP 07712292 A 20070223; EP 2007051743 W 20070223; JP 2009511422 A 20070223; US 22746807 A 20070223