

Title (en)

WELDED STEAM TURBINE SHAFT AND ITS METHOD OF MANUFACTURE

Title (de)

GESCHWEISSTE TURBINENWELLE UND VERFAHREN ZUR DEREN HERSTELLUNG

Title (fr)

ARBRE SOUDÉ DE TURBINE À VAPEUR ET PROCÉDÉ DE FABRICATION

Publication

EP 1733123 A1 20061220 (DE)

Application

EP 05715934 A 20050310

Priority

- EP 2005002558 W 20050310
- EP 04006394 A 20040317
- EP 05715934 A 20050310

Abstract (en)

[origin: EP1577494A1] The welded turbine shaft (3) which is orientated in a longitudinal direction (4) has a center section (20) and two outer sections (21,22) fastened on the center section in the longitudinal direction. The center section is manufactured from a material which is more resistant to high heat than the two outer sections. The two outer sections are each connected to the center section through a weld (24,25). Independent claims are also included for the following: (A) a method for the manufacture of a turbine shaft in which the center section of the shaft consists of a material with resistance to high heat; and (B) a steam turbine equipped with the shaft as specified in the invention.

IPC 8 full level

F01D 5/02 (2006.01); **F01D 5/06** (2006.01); **F01D 5/28** (2006.01)

CPC (source: EP US)

F01D 5/026 (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 2220/72** (2013.01 - EP US); **F05D 2300/132** (2013.01 - EP US); **F05D 2300/171** (2013.01 - EP US); **Y10T 29/4932** (2015.01 - EP US)

Citation (search report)

See references of WO 2005093218A1

Citation (examination)

DE 10052176 A1 20010621 - TOSHIBA KAWASAKI KK [JP]

Designated contracting state (EPC)

CH DE ES GB IT LI PL

DOCDB simple family (publication)

EP 1577494 A1 20050921; CN 100420825 C 20080924; CN 1954133 A 20070425; EP 1733123 A1 20061220; US 2008159849 A1 20080703; US 7771166 B2 20100810; WO 2005093218 A1 20051006

DOCDB simple family (application)

EP 04006394 A 20040317; CN 200580015757 A 20050310; EP 05715934 A 20050310; EP 2005002558 W 20050310; US 59304305 A 20050310