

Title (en)

METHOD FOR PRODUCING A HOUSING OF A TURBO ENGINE

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES GEHÄUSES EINER TURBOMASCHINE

Title (fr)

PROCEDE DE FABRICATION D'UN BOITIER D'UNE TURBOMACHINE

Publication

**EP 3319751 A1 20180516 (DE)**

Application

**EP 16760057 A 20160901**

Priority

- EP 15187542 A 20150930
- EP 2016070575 W 20160901

Abstract (en)

[origin: WO2017055006A1] The invention relates to a method for manufacturing a housing (C) of a turbomachine, in particular a housing (C) of a radial turbo compressor. In order that the housing is less expensive, more precise and particularly reliable, the method comprises the following steps: a) providing a hollow body (CY) that is closed in a circumferential direction and extends along an axis (X); b) coating the inner side of the hollow body (CY) with a corrosion-resistant layer (LY) that is more resistant to corrosion than the material of the hollow body (CY); c) dividing the hollow body (CY) into two half-shells (HCY) along the axis (X) in a separation joint plane (SSP); d) assembling the housing (C) by joining both half-shells (HCY) and fastening both half-shells (HCY) in the region of the separation joints (SP), which were created by separation, by means of detachable fastening elements (FE).

IPC 8 full level

**B23K 5/18** (2006.01); **B23K 10/02** (2006.01); **B23K 26/00** (2014.01); **B23K 26/342** (2014.01); **F01D 25/24** (2006.01)

CPC (source: EP RU US)

**B23K 5/18** (2013.01 - EP RU US); **B23K 9/048** (2013.01 - EP US); **B23K 10/027** (2013.01 - EP US); **B23K 26/34** (2013.01 - EP US); **B23K 26/342** (2015.10 - US); **B23K 26/38** (2013.01 - EP US); **F01D 25/007** (2013.01 - EP US); **F01D 25/243** (2013.01 - EP US); **B23K 2101/001** (2018.08 - EP US); **B23K 2101/04** (2018.08 - EP US); **B23K 2101/06** (2018.08 - EP US); **B23P 15/008** (2013.01 - US); **F05D 2220/40** (2013.01 - EP US); **F05D 2230/50** (2013.01 - US); **F05D 2230/90** (2013.01 - EP US); **F05D 2260/95** (2013.01 - EP US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 3150321 A1 20170405**; CN 108235693 A 20180629; EP 3319751 A1 20180516; RU 2682739 C1 20190321; US 10213875 B2 20190226; US 2018272470 A1 20180927; WO 2017055006 A1 20170406

DOCDB simple family (application)

**EP 15187542 A 20150930**; CN 201680057160 A 20160901; EP 16760057 A 20160901; EP 2016070575 W 20160901; RU 2018113766 A 20160901; US 201615762694 A 20160901