

Title (en)

Charging device, in particular exhaust gas turbocharger for a motor vehicle

Title (de)

Ladevorrichtung, insbesondere Abgasturbolader für ein Kraftfahrzeug

Title (fr)

Dispositif de chargement, notamment turbosoufflante de gaz d'échappement pour un véhicule automobile

Publication

**EP 2280177 B1 20160330 (DE)**

Application

**EP 10169668 A 20100715**

Priority

DE 102009035629 A 20090731

Abstract (en)

[origin: EP2280177A2] The charging device (1) has a shaft (3) carrying a compressor wheel (2), and a fixing device (4) for fixing the compressor wheel on the shaft. A sealing bush (5), a partition (6) of the bush and a spacer disk (7) are fixed on the shaft and fixed together with the compressor wheel by the fixing device. Expansion coefficient of the bush, partition and the disk is smaller than expansion coefficient of the compressor wheel at a predetermined temperature range. The shaft is made of steel or steel alloy.

IPC 8 full level

**F04D 29/02** (2006.01); **F01D 5/02** (2006.01); **F04D 29/26** (2006.01); **F04D 29/28** (2006.01)

CPC (source: EP US)

**F01D 5/025** (2013.01 - EP US); **F04D 29/023** (2013.01 - EP US); **F04D 29/266** (2013.01 - EP US); **F04D 29/284** (2013.01 - EP US); **F05D 2220/40** (2013.01 - EP US); **F05D 2300/121** (2013.01 - EP US); **F05D 2300/133** (2013.01 - EP US); **F05D 2300/50212** (2013.01 - EP US)

Citation (examination)

US 6171009 B1 20010109 - WRIGHT RICHARD JOSEPH [US]

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DOCDB simple family (publication)

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US 2011033282 A1 20110210

DOCDB simple family (application)

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