

Title (en)
RADIAL COMPRESSOR ROTOR

Title (de)
RADIALVERDICHTER-LAUFRAD

Title (fr)
ROUE MOBILE DE COMPRESSEUR RADIAL

Publication
EP 1948939 B1 20091202 (DE)

Application
EP 06807648 A 20061030

Priority
• EP 2006067919 W 20061030
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• EP 06807648 A 20061030

Abstract (en)
[origin: EP1788255A1] The impeller has a wheel disc (12) and blades (14) with a leading edge (16) and a trailing edge (18) that are arranged in a circumferential direction. A partial area of a surface of the blades is a dual-curved partial area (26), whose generatrix (24a) is formed as curved lines, where the partial area is curved perpendicular to the generatrix. A transfer of the dual curved partial area is continuous to a standard surface partial area (28). The blades have a hub edge (20) and an outer edge (22), where the partial areas (26, 28) abut at the outer edge and the hub edge, respectively. An independent claim is also included for a method for manufacturing a radial compressor impeller.

IPC 8 full level
F04D 29/30 (2006.01); **F04D 29/28** (2006.01)

CPC (source: EP NO US)
F04D 29/284 (2013.01 - EP NO US); **F04D 29/30** (2013.01 - EP NO US); **Y10T 29/49321** (2015.01 - EP NO US)

Cited by
DE102022203619A1; DE102022127147B4

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NO 338811 B1 20161024; US 2009220346 A1 20090903; US 8277187 B2 20121002; WO 2007057292 A1 20070524

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