

Title (en)
SIDE CHANNEL COMPRESSOR

Title (de)
SEITENKANALKOMPRESSOR

Title (fr)
COMPRESSEUR À CANAL LATÉRAL

Publication
EP 2207967 A1 20100721 (EN)

Application
EP 08847294 A 20081029

Priority
• EP 2008009119 W 20081029
• DE 102007053017 A 20071105

Abstract (en)
[origin: US2010221097A1] The invention concerns a side channel compressor for compressing a gas, the side channel compressor comprising a housing (3), a side channel (30) located in the housing (3) for compressing a gas, a gas inlet opening which is formed in the housing (3) and is in flow connection with the side channel (30) for introducing a gas to be compressed, a gas outlet opening (32) formed in the housing (3) for discharging the gas to be compressed from the side channel (30), the gas outlet opening (32) being in flow connection with the gas inlet opening (31) by way of the side channel (30), and a impeller (2) mounted for rotary drive in the housing (3), the impeller (2) having at least two impeller blades (1) disposed in the side channel, wherein at least one impeller blade (1) has a flow recess in its free edge region (47).

IPC 8 full level
F04D 23/00 (2006.01); **F04D 29/28** (2006.01); **F04D 29/66** (2006.01)

CPC (source: EP US)
F04D 23/008 (2013.01 - EP US); **F04D 29/284** (2013.01 - EP US); **F04D 29/666** (2013.01 - EP US); **F05D 2240/307** (2013.01 - EP); **F05D 2250/182** (2013.01 - EP)

Citation (search report)
See references of WO 2009059718A1

Cited by
DE102012023347B3; WO2014082892A1; US10532169B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
US 2010221097 A1 20100902; AT E509203 T1 20110515; CN 101849110 A 20100929; CN 101849110 B 20121107; DE 102007053017 A1 20090507; DK 2207967 T3 20110815; EP 2207967 A1 20100721; EP 2207967 B1 20110511; ES 2365479 T3 20111006; KR 101485622 B1 20150122; KR 20100091961 A 20100819; TW 200936887 A 20090901; WO 2009059718 A1 20090514

DOCDB simple family (application)
US 68152308 A 20081029; AT 08847294 T 20081029; CN 200880114661 A 20081029; DE 102007053017 A 20071105; DK 08847294 T 20081029; EP 08847294 A 20081029; EP 2008009119 W 20081029; ES 08847294 T 20081029; KR 20107010043 A 20081029; TW 97142715 A 20081105