

Title (en)
Lateral channel compressor

Title (de)
Seitenkanalverdichter

Title (fr)
Compresseur à canal latéral

Publication
EP 1672222 B1 20090909 (EN)

Application
EP 05027844 A 20051219

Priority
DE 202004019506 U 20041217

Abstract (en)
[origin: EP1672222A2] In order to guarantee a high degree of efficiency, even with different speeds, a lateral channel (2, 2A, 2B) with an elliptical cross-sectional surface is provided, which tapers from an aspiration side through to a pressure side. Here, the elliptical cross-sectional geometry is formed by a supporting ring (18) of an impeller (12) and by an inside wall area (28) of a casing (6, 8). The supporting ring (18) and the inside wall area (28) enclose the lateral channel (2) almost fully, the elliptically curved wall areas passing homogeneously into each other.

IPC 8 full level
F04D 23/00 (2006.01)

CPC (source: EP)
F04D 23/008 (2013.01); **F04D 17/168** (2013.01)

Cited by
CN107110169A; US10443606B2; US10605270B2; CN110023630A; EP3660320A1; EP3660321A1; EP3199816A1; US2017218971A1; WO2018091397A1; US11353037B2; US11859630B2; EP3542065B1; EP3660320B1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1672222 A2 20060621; EP 1672222 A3 20070404; EP 1672222 B1 20090909; AT E442527 T1 20090915; DE 202004019506 U1 20060420; DE 602005016515 D1 20091022

DOCDB simple family (application)
EP 05027844 A 20051219; AT 05027844 T 20051219; DE 202004019506 U 20041217; DE 602005016515 T 20051219