

Title (en)  
CENTRIFUGAL COMPRESSOR

Title (de)  
ZENTRIFUGALVERDICHTER

Title (fr)  
COMPRESSEUR CENTRIFUGE

Publication  
**EP 2572108 A1 20130327 (DE)**

Application  
**EP 11721272 A 20110512**

Priority  
• DE 102010020891 A 20100518  
• EP 2011057660 W 20110512

Abstract (en)  
[origin: WO2011144515A1] The invention relates to a centrifugal compressor (CO) for compressing a fluid (F), comprising: a housing (C) comprising a partial joint plane (SP) extending parallel to or along a machine axis (AX), a shaft (SH) extending along the machine axis (AX) and having a first shaft end (SE1) and a second shaft end (SE2), at least one impeller (IM) mounted on the shaft (SH), a collector helix (CC) disposed downstream of the at least one impeller (IM) and collecting the compressed fluid (F) prior to outflow into a downstream machine module, wherein the collector helix (CC) is disposed at the first shaft end (SE1), and a drive (D) disposed on the first shaft end (SE1), wherein an axial intake is provided on the shaft (SH) at the second shaft end (SE2) at an overhang stage (ST) of the centrifugal compressor (CO). In order to improve the centrifugal compressor defined above, such that the production effort is reduced and no great pressure losses are produced in the collector helix, the collector helix (CC) is formed seamlessly in the circumferential direction and is flange mounted on the housing (C) of the centrifugal compressor (CO).

IPC 8 full level  
**F04D 17/12** (2006.01); **F01D 25/24** (2006.01); **F04D 29/08** (2006.01); **F04D 29/42** (2006.01); **F04D 29/44** (2006.01)

CPC (source: EP US)  
**F04D 17/122** (2013.01 - EP US); **F04D 29/083** (2013.01 - EP US); **F04D 29/4206** (2013.01 - EP US); **F04D 29/441** (2013.01 - EP US)

Citation (search report)  
See references of WO 2011144515A1

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

DOCDB simple family (publication)  
**WO 2011144515 A1 20111124**; CN 102893033 A 20130123; CN 102893033 B 20150603; EP 2572108 A1 20130327; EP 2572108 B1 20150826; US 2013064659 A1 20130314

DOCDB simple family (application)  
**EP 2011057660 W 20110512**; CN 201180024259 A 20110512; EP 11721272 A 20110512; US 201113698317 A 20110512