

Title (en)  
CONVEYING UNIT

Title (de)  
FÖRDERAGGREGAT

Title (fr)  
DISPOSITIF DE TRANSPORT

Publication  
**EP 2148990 B1 20110831 (DE)**

Application  
**EP 08735656 A 20080401**

Priority  
• EP 2008053884 W 20080401  
• DE 102007018820 A 20070420

Abstract (en)  
[origin: WO2008128858A1] Already known are conveying units with a pump chamber in which an impeller is rotatably mounted which has conveying blades which interact with at least one conveying channel which is provided in the pump chamber and which starts out from a suction end and extends up to a pressure end and which is disposed in circular fashion, wherein the pressure end is at a distance from the suction end in the circumferential direction with respect to the conveying channel, with the result that an interruption region is formed between the suction end and the pressure end. The pump chamber is bounded in the axial direction, with respect to a pump axis, by two end walls at each of which a conveying channel is formed. At one of the end walls, radially within the conveying channel thereof, a plurality of elevations is provided which set a specified axial gap between the end wall and the impeller and which act as a support for the impeller. The impeller is aligned parallel to the end walls. By means of the conveying unit according to the invention, a simplified hydrodynamic mounting is achieved. According to the invention, at least one elevation (35) is provided in the interruption region (34).

IPC 8 full level  
**F04D 5/00** (2006.01)

CPC (source: EP)  
**F04D 5/002** (2013.01); **F04D 29/0413** (2013.01)

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

DOCDB simple family (publication)  
**DE 102007018820 A1 20081023**; AT E522724 T1 20110915; BR PI0806102 A2 20110830; CN 101668952 A 20100310; CN 101668952 B 20121128; EP 2148990 A1 20100203; EP 2148990 B1 20110831; RU 2009142691 A 20110610; RU 2458252 C2 20120810; WO 2008128858 A1 20081030

DOCDB simple family (application)  
**DE 102007018820 A 20070420**; AT 08735656 T 20080401; BR PI0806102 A 20080401; CN 200880012754 A 20080401; EP 08735656 A 20080401; EP 2008053884 W 20080401; RU 2009142691 A 20080401