

Title (en)  
Coolant pump system

Title (de)  
Kältemittelpumpenaggregat

Title (fr)  
Pompe de liquide de refroidissement

Publication  
**EP 2348219 A1 20110727 (DE)**

Application  
**EP 10000704 A 20100125**

Priority  
EP 10000704 A 20100125

Abstract (en)  
The assembly has a centrifugal pump (4) surrounded by a tubular container (18). An axial end of the container is sealingly connected to a motor housing of a drive motor (2) e.g. canned motor and electric drive motor. Another axial end (20) of the container is connected to the former axial end in a closed manner. The container comprises a closed wall and suction and pressure openings (24, 26) that extend away from the container in a radial direction. The openings are provided with connection flanges (30). The openings are directly welded to a connection line.

Abstract (de)  
Die Erfindung betrifft ein Kreiselumpenaggregat mit zumindest einem Laufrad (8) und einem Axiallager (44) welches rotierenden (50) und einen feststehenden (48) Lagerteil aufweist, wobei sowohl der rotierende (50) als auch der feststehende (48) Lagerteil selbstausrichtend ausgebildet sind.

IPC 8 full level  
**F04D 29/08** (2006.01)

CPC (source: EP US)  
**F04D 1/06** (2013.01 - EP US); **F04D 13/0606** (2013.01 - EP US); **F04D 29/0413** (2013.01 - EP US); **F04D 29/086** (2013.01 - EP US); **F04D 29/426** (2013.01 - EP US); **F04D 29/445** (2013.01 - EP US)

Citation (search report)

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- [X] DE 4011475 A1 19911010 - KLEIN SCHANZLIN & BECKER AG [DE]
- [X] US 5692886 A 19971202 - KOBAYASHI MAKOTO [JP], et al
- [X] FR 1091514 A 19550413 - VOGEL PUMPEN
- [A] US 2450137 A 19480928 - HARLAMOFF ANATOL J
- [A] DE 4415157 A1 19951109 - KLEIN SCHANZLIN & BECKER AG [DE]

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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 MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)  
AL BA RS

DOCDB simple family (publication)  
**EP 2348219 A1 20110727**; **EP 2348219 B1 20160629**; CN 102135103 A 20110727; CN 102135103 B 20150819; US 2011182725 A1 20110728

DOCDB simple family (application)  
**EP 10000704 A 20100125**; CN 201110031160 A 20110125; US 201113012287 A 20110124