

Title (en)  
Centrifugal pump impeller

Title (de)  
LaufRad einer Kreiselpumpe

Title (fr)  
Roue d'une pompe centrifuge

Publication  
**EP 2405143 A3 20150114 (DE)**

Application  
**EP 11005625 A 20110708**

Priority  
DE 102010026756 A 20100709

Abstract (en)  
[origin: EP2405143A2] The impeller (1) has a cup-shaped outer wall (2) arranged coaxial to an impeller axis. A front side part (3) is closed, and another front side part (4) is opened by the outer wall for forming a suction port. Two passage openings are arranged in the outer wall. The openings are covered by a discharge duct (8), which includes a curved duct outer wall (9). The duct outer wall forms a discharge opening (12) together with side walls (10) at an end of the duct outer wall. The side walls expand in an escape direction. Inclined supply ducts and/or grooves are arranged in the port.

IPC 8 full level  
**F04D 29/22** (2006.01)

CPC (source: EP)  
**F04D 29/2238** (2013.01); **F04D 29/225** (2013.01)

Citation (search report)

- [XA] US 2010047094 A1 20100225 - GEREMIA SILVINO [BR]
- [XI] DE 2844990 A1 19800417 - WOJEWODZKIE PRZED GOSPODARKI K
- [X] US 3134331 A 19640526 - HUBER CHARLES F
- [X] FR 742839 A 19330317
- [X] US 2432247 A 19471209 - MCANALLEN LEE V

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

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 2405143 A2 20120111; EP 2405143 A3 20150114; EP 2405143 B1 20190828**; DE 102010026756 A1 20120112;  
DE 102010026756 B4 20121025

DOCDB simple family (application)  
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