

Title (en)  
Pump

Title (de)  
Pumpe

Title (fr)  
Pompe

Publication  
**EP 2143954 B1 20120502 (DE)**

Application  
**EP 08012460 A 20080710**

Priority  
EP 08012460 A 20080710

Abstract (en)  
[origin: EP2143954A1] The pump has a flow guiding part e.g. impeller, diffuser and sealing element, with a sectional surface layer (50) made of elastomer, where the flow guiding part is formed as a multi component-injection molding part. The injection molding part has a base structure (55) that is made of plastic, which is formed as a component, and the elastomer of the surface layer is formed as another component. The elastomer is a synthetic rubber e.g. silicone rubber. The sealing element is inserted between the diffuser and the impeller for guiding the flow.

IPC 8 full level  
**F04D 7/04** (2006.01); **F01D 5/28** (2006.01); **F04D 29/02** (2006.01); **F04D 29/08** (2006.01); **F04D 29/22** (2006.01); **F04D 29/42** (2006.01); **F04D 29/44** (2006.01)

CPC (source: EP US)  
**F04D 7/04** (2013.01 - EP US); **F04D 29/026** (2013.01 - EP US); **F04D 29/086** (2013.01 - EP US); **F04D 29/227** (2013.01 - EP US); **F04D 29/2294** (2013.01 - EP US); **F04D 29/4286** (2013.01 - EP US); **F04D 29/448** (2013.01 - EP US); **F05B 2230/30** (2013.01 - EP US); **F05B 2230/90** (2013.01 - EP US); **F05C 2225/00** (2013.01 - EP US); **F05D 2230/20** (2013.01 - EP US); **F05D 2230/53** (2013.01 - EP US); **F05D 2300/43** (2013.01 - EP US)

Cited by  
DE102011081333A1; CN102852805A; WO2013026733A2; WO2014139578A1

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)  
**EP 2143954 A1 20100113**; **EP 2143954 B1 20120502**; AT E556224 T1 20120515; CN 101624989 A 20100113; CN 101624989 B 20120530; US 2010008768 A1 20100114; US 8403639 B2 20130326

DOCDB simple family (application)  
**EP 08012460 A 20080710**; AT 08012460 T 20080710; CN 200910140251 A 20090709; US 50063409 A 20090710