

Title (en)
Pump

Title (de)
Pumpe

Title (fr)
Pompe

Publication
EP 2143954 A1 20100113 (DE)

Application
EP 08012460 A 20080710

Priority
EP 08012460 A 20080710

Abstract (en)
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.

Abstract (de)
Die Erfindung betrifft ein Pumpe, insbesondere eine Kreiselpumpe, wobei sie zumindest einen strömungsführenden Teil mit einer zumindest bereichsweisen Oberflächenschicht (50) aus einem Elastomer aufweist und wobei der strömungsführende Teil mit der Oberflächenschicht (50) als ein Mehrkomponenten-Spritzgussteil ausgebildet ist, mit einer Grundstruktur (55) aus Kunststoff als einer ersten Komponente und dem Elastomer als einer zweiten Komponente.

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)
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Citation (applicant)
• US 5219461 A 19930615 - HYLL JOHN [US], et al
• US 5344515 A 19940906 - CHENOCK JR THOMAS A [US]
• US 4776760 A 19881011 - GRISZ EUGENE J [US]

Citation (search report)
• [XA] US 5219461 A 19930615 - HYLL JOHN [US], et al
• [XA] US 5344515 A 19940906 - CHENOCK JR THOMAS A [US]
• [A] US 4776760 A 19881011 - GRISZ EUGENE J [US]
• [A] US 3979549 A 19760907 - WILKINSON ROBERT E
• [A] EP 0376225 A2 19900704 - NIPPON ZEON CO [JP], et al

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DE102011081333A1; CN102852805A; WO2013026733A2; WO2014139578A1

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Designated extension state (EPC)
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DOCDB simple family (application)
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