

Title (en)
SLURRY PUMP IMPELLER

Title (de)
SCHLAMMPUMPENLAUFRADE

Title (fr)
TURBINE DE POMPE À BOUE

Publication
EP 2978975 B1 20190102 (EN)

Application
EP 14774127 A 20140328

Priority
• AU 2013901086 A 20130328
• AU 2014000337 W 20140328

Abstract (en)
[origin: WO2014153616A1] A pump impeller which includes: a back shroud having an inner main face with an outer peripheral edge and a central axis, the impeller in use being rotatable about the central axis in a direction of rotation, a plurality of pumping vanes extending from the inner main face of the back shroud, the pumping vanes being disposed in spaced apart relation, and each pumping vane including: opposed first and second side faces, a leading edge in the region of the central axis and a trailing edge in the region of the outer peripheral edge of the back shroud, and with a passageway between adjacent pumping vanes, wherein the first side face at the leading edge is in a plane which is at an acute angle with respect to a plane of the inner main face of the back shroud, and the first side face at the trailing edge is in a plane which is at an obtuse angle with respect to the plane of the inner main face of the back shroud.

IPC 8 full level
F04D 29/24 (2006.01); **F04D 7/04** (2006.01); **F04D 29/22** (2006.01)

CPC (source: EP US)
F04D 7/04 (2013.01 - EP US); **F04D 29/2294** (2013.01 - US); **F04D 29/24** (2013.01 - EP US); **F04D 29/242** (2013.01 - US)

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US 2010284812 A1 20101111 - ZAHDEH AKRAM R [US]

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Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2014153616 A1 20141002; AP 2015008763 A0 20150930; AU 2014245856 A1 20150917; AU 2014245856 B2 20180215; BR 112015024718 A2 20170718; CA 2902759 A1 20141002; CL 2015002887 A1 20160520; CN 105074225 A 20151118; CN 105074225 B 20170215; EA 031306 B1 20181228; EA 201591520 A1 20160129; EP 2978975 A1 20160203; EP 2978975 A4 20161109; EP 2978975 B1 20190102; ES 2709199 T3 20190415; MX 2015013549 A 20160407; MX 365143 B 20190524; PE 20151584 A1 20151118; PH 12015501912 A1 20160111; PH 12015501912 B1 20160111; PL 2978975 T3 20190628; PT 2978975 T 20190208; TR 201901181 T4 20190221; US 2016040682 A1 20160211

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AU 2014000337 W 20140328; AP 2015008763 A 20140328; AU 2014245856 A 20140328; BR 112015024718 A 20140328; CA 2902759 A 20140328; CL 2015002887 A 20150928; CN 201480017925 A 20140328; EA 201591520 A 20140328; EP 14774127 A 20140328; ES 14774127 T 20140328; MX 2015013549 A 20140328; PE 2015002072 A 20140328; PH 12015501912 A 20150828; PL 14774127 T 20140328; PT 14774127 T 20140328; TR 201901181 T 20140328; US 201414780700 A 20140328