Title (en)
  SLURRY PUMP IMPELLER

Title (de)
  SCHLAMMPUMPENLAUFRAD

Title (fr)
  TURBINE DE POMPE À BOUE

Publication
  EP 2978975 A4 20161109 (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)

Citation (search report)
  • [Y] EP 2570674 A1 20130320 - SANDVIK INTELLECTUAL PROPERTY [SE]
  • [XYI] FR 2640328 A1 19900615 - SCHLUMBERGER CIE DOWELL [FR]
  • See references of WO 2014153616A1

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)
  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

DOCDB simple family (application)
  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