

Title (en)

MIXING IMPELLER HAVING CHANNEL-SHAPED VANES

Title (de)

MISCHIMPELLER MIT RINNENFÖRMIGEN SCHAUFELN

Title (fr)

ROTOR DE MÉLANGE AYANT DES AUBES EN FORME DE CANAL

Publication

EP 2782664 A4 20150715 (EN)

Application

EP 12850888 A 20121120

Priority

- US 201113304368 A 20111124
- CA 2762040 A 20111215
- CA 2012050832 W 20121120

Abstract (en)

[origin: WO2013075236A1] The present invention relates to a mixing impeller for an agitator. The impeller has a body that may be disc-shape. The impeller has a plurality of radially spaced-apart, longitudinally curved, channel-shaped outer vanes connected to and extending outwards from the body in a plurality of different directions. A first one of the outer vanes has a distal end at least partially facing above the body. A second one of the outer vanes has a distal end at least partially facing below the body. A third one of the outer vanes has a distal end at least partially facing tangential to the body.

IPC 8 full level

B01F 27/91 (2022.01); **C12M 1/06** (2006.01)

CPC (source: EP)

B01F 27/1111 (2022.01); **B01F 27/1123** (2022.01); **B01F 27/117** (2022.01); **C12M 27/02** (2013.01)

Citation (search report)

- [XY] US 5791780 A 19980811 - BAKKER ANDRIES [US]
- [XY] GB 190816592 A 19090805 - VOJACEK LADISLAV [GB]
- [XY] US 2007172407 A1 20070726 - LOBEL WOLFGANG [DE], et al
- [X] US 407672 A 18890723
- [XY] US 4193702 A 19800318 - DAVIS PHILIP E [US]
- [Y] US 2978233 A 19610404 - KINGSLEY DAVEY
- [A] DE 202005008676 U1 20051006 - WP ARO GMBH [DE]
- [A] GB 749327 A 19560523 - OSBORNE ENGINEERS LTD
- See references of WO 2013075236A1

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

DOCDB simple family (publication)

WO 2013075236 A1 20130530; CN 103958041 A 20140730; CN 103958041 B 20161019; EP 2782664 A1 20141001; EP 2782664 A4 20150715; JP 2015502846 A 20150129

DOCDB simple family (application)

CA 2012050832 W 20121120; CN 201280058068 A 20121120; EP 12850888 A 20121120; JP 2014542655 A 20121120