

Title (en)
FROTH HANDLING PUMP

Title (de)
SCHAUMPUMPE

Title (fr)
POMPE PRENANT EN CHARGE L'ÉCUME

Publication
EP 2331227 A4 20120425 (EN)

Application
EP 09813648 A 20090911

Priority

- US 2009056603 W 20090911
- US 20874708 A 20080911
- US 54330309 A 20090818

Abstract (en)
[origin: US2010061841A1] A froth handling pump includes a pump casing, an impeller mounted within the casing, and a de-aeration chamber mounted to the rear side of the pump casing. The impeller comprises multiple pumping vanes, each of the vanes having an inlet angle and an outlet angle, wherein the outlet angle is greater than the inlet angle, the outlet angles terminating at a rear shroud. The rear shroud includes multiple vent holes for the passage of gases therethrough. The de-aeration chamber, which comprises an inner volume, includes an inlet formed on the inner side for receiving gases passing through the plurality of vent holes. At least one vent outlet is provided for the discharge of gases from the de-aeration chamber.

IPC 8 full level
B01D 19/00 (2006.01); **F04D 9/00** (2006.01)

CPC (source: EP US)
F04D 9/003 (2013.01 - EP US); **F04D 29/2261** (2013.01 - EP US); **F04D 29/2277** (2013.01 - EP US)

Citation (search report)

- [X] US 5039320 A 19910813 - HOEGLUND RONNY [SE], et al
- [X] US 5167678 A 19921201 - ELONEN JORMA [FI], et al
- [X] GB 1445356 A 19760811 - LEIPZIG CHEMIEANLAGEN
- See references of WO 2010030841A1

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 MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)
US 2010061841 A1 20100311; AU 2009291679 A1 20100318; BR PI0918015 A2 20151117; CA 2732683 A1 20100318; CL 2011000316 A1 20110603; EP 2331227 A1 20110615; EP 2331227 A4 20120425; MX 2011002615 A 20110407; PE 20110790 A1 20111123; RU 2011113962 A 20121020; WO 2010030841 A1 20100318; ZA 201101013 B 20120725

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