

Title (en)
Motor pump

Title (de)
Motorpumpe

Title (fr)
Motopompe

Publication
EP 2236835 A1 20101006 (EN)

Application
EP 10155912 A 20100309

Priority
JP 2009074012 A 20090325

Abstract (en)
A motor pump includes : a case having a cavity; a suction pipe; an ejection pipe; a drive motor; and an impeller fixed to a drive shaft of the drive motor, wherein the impeller includes a bearing portion configured to be fixed to the drive shaft and blade portions protruding in radial direction from the bearing portion, wherein each of the blade portions includes a base portion formed to continue from the bearing portion and a tip portion formed to continue from the base portion, wherein the base portion of each of the blade portions is formed to be convexly curved toward a rotational direction of the impeller, and wherein the tip portion of each of the blade portions is formed to be convexly curved toward a backward direction opposite the rotational direction.

IPC 8 full level
F04D 13/06 (2006.01); **F04D 29/24** (2006.01)

CPC (source: EP)
F04D 13/06 (2013.01); **F04D 29/242** (2013.01); **F04D 29/245** (2013.01)

Citation (applicant)
• US 2005191176 A1 20050901 - KOEPPLER PETER [DE]
• DE 9206053 U1 19920702
• WO 2004046558 A1 20040603 - VOLVO LASTVAGNAR AB [SE], et al

Citation (search report)
• [X] US 2005191176 A1 20050901 - KOEPPLER PETER [DE]
• [X] DE 9206053 U1 19920702
• [X] WO 2004046558 A1 20040603 - VOLVO LASTVAGNAR AB [SE], et al
• [A] WO 2007123406 A1 20071101 - IHC HOLLAND NV [NL], et al

Cited by
CN106194823A; EP3088738A1; CN106194756A; US10584705B2

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

Designated extension state (EPC)
AL BA ME RS

DOCDB simple family (publication)
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DOCDB simple family (application)
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