

Title (en)
Motor pump

Title (de)
Motorpumpe

Title (fr)
Pompe de moteur

Publication
EP 2236835 B1 20130807 (EN)

Application
EP 10155912 A 20100309

Priority
JP 2009074012 A 20090325

Abstract (en)
[origin: EP2236835A1] 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)

Cited by
CN106194823A; US10584705B2; EP3088738A1; CN106194756A

Designated contracting state (EPC)
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DOCDB simple family (publication)
EP 2236835 A1 20101006; EP 2236835 B1 20130807; CN 101846084 A 20100929; CN 101846084 B 20140716; JP 2010223168 A 20101007; JP 5393217 B2 20140122

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