

Title (en)  
Battery drive circulation pump

Title (de)  
Pumpe mit Batterie

Title (fr)  
Pompe entraînée par batterie

Publication  
**EP 1308627 A3 20040114 (DE)**

Application  
**EP 02022090 A 20021002**

Priority  
DE 10153068 A 20011030

Abstract (en)  
[origin: EP1308627A2] The unit includes a casing and battery (11) supplying the motor (8) and control electronics.

IPC 1-7  
**F04D 13/06**

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

CPC (source: EP)  
**F04D 13/06** (2013.01); **F04D 13/068** (2013.01)

Citation (search report)  
• [A] US 4021150 A 19770503 - MABUCHI KENICHI  
• [A] US 6162194 A 20001219 - SHIPP JOHN I [US]  
• [A] US 3910725 A 19751007 - RULE CLINTON

Cited by  
CN110101927A; WO2019149391A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)  
**EP 1308627 A2 20030507; EP 1308627 A3 20040114; EP 1308627 B1 20110323**; DE 10153068 A1 20030515; DE 50214973 D1 20110505

DOCDB simple family (application)  
**EP 02022090 A 20021002**; DE 10153068 A 20011030; DE 50214973 T 20021002