

Title (en)

ELECTRIC MOTOR PUMP FOR SWIMMING POOL MAINTENANCE

Title (de)

SYNCHRONMOTORPUMPE ZUR WARTUNG EINES SCHWIMMBADES

Title (fr)

POMPE MOTEUR ELECTRIQUE POUR L'ENTRETIEN DES PISCINES

Publication

EP 1588055 A1 20051026 (FR)

Application

EP 03785995 A 20031024

Priority

- FR 0303171 W 20031024
- FR 0213384 A 20021025

Abstract (en)

[origin: US2006104840A1] The invention concerns a dual pump, comprising an electric motor (18) including a drive shaft, the shaft including, at each of its axial ends, a shaft output (21, 22), and two pump impellers, each shaft output driving a respective pump impeller, one first of the pump impellers (23) operating at low pressure and high flow rate, and the second of the pump impellers (30) operating at higher pressure and lower flow rate. The water pumped by the second pump impeller (30) is drawn proximate the outlet of the first pump impeller (23) and returns to the inlet of the second pump impeller. The drawing point is situated in a low pressure pump chamber, upstream of the low pressure outlet (16). The invention is applicable to swimming pool maintenance.

IPC 1-7

F04D 13/14; **F04D 13/06**; **F04D 29/58**; **E04H 4/12**; **A01K 61/00**

IPC 8 full level

E04H 4/12 (2006.01); **F04D 1/06** (2006.01); **F04D 13/14** (2006.01); **F04D 29/58** (2006.01)

CPC (source: EP US)

E04H 4/1245 (2013.01 - EP US); **F04D 1/06** (2013.01 - EP US); **F04D 13/06** (2013.01 - EP US); **F04D 13/14** (2013.01 - EP US); **F04D 29/5806** (2013.01 - EP US)

Citation (search report)

See references of WO 2004040144A1

Cited by

CN105275829A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

US 2006104840 A1 20060518; **US 7828530 B2 20101109**; AT E488699 T1 20101215; AU 2003295004 A1 20040525; CA 2502838 A1 20040513; CA 2502838 C 20120522; DE 60335030 D1 20101230; EP 1588055 A1 20051026; EP 1588055 B1 20101117; ES 2357829 T3 20110503; FR 2846383 A1 20040430; FR 2846383 B1 20050708; WO 2004040144 A1 20040513

DOCDB simple family (application)

US 53265305 A 20051031; AT 03785995 T 20031024; AU 2003295004 A 20031024; CA 2502838 A 20031024; DE 60335030 T 20031024; EP 03785995 A 20031024; ES 03785995 T 20031024; FR 0213384 A 20021025; FR 0303171 W 20031024