

Title (en)
WATER CIRCULATION UNIT WITH INCREASED THROUGHPUT FOR SWIMMING POOLS, AND FILTER UNIT COMPRISING THE SAME

Title (de)
WASSERZIRKULATIONSEINHEIT MIT ERHÖHTEM DURCHSATZ FÜR SCHWIMMBECKEN UND DIESE ENTHALTENDE FILTEREINHEIT

Title (fr)
ENSEMBLE DE CIRCULATION D'EAU A MULTIPLICATION DE DEBIT POUR PISCINE, ET GROUPE DE FILTRATION LE COMPORTANT

Publication
EP 1629163 A2 20060301 (FR)

Application
EP 04742586 A 20040427

Priority

- FR 2004001019 W 20040427
- FR 0306532 A 20030528
- FR 0313553 A 20031119

Abstract (en)
[origin: WO2004109042A2] The invention relates to a water circulation unit comprising an ejector (142), a convergent, and a pipe (146) which is arranged in the extension of the convergent. According to the invention, the ejection axis practically merges with the symmetry axis of the convergent, said two axes forming a common axis of the unit, and the distance between the water outlet of the ejector (142) and the downstream section of the convergent is between 0.4 and 1.6 times the length of the convergent. A guiding region is located just upstream of the upstream section of the convergent following the common axis, at least up to the water outlet of the ejector (142) when said outlet is located outside the convergent, said region ensuring that the water is essentially symmetrically guided around the common axis during the operation of the ejector. In a filter unit, a cartridge (154) is arranged around the water circulation unit.

IPC 1-7
E04H 4/12; **E04H 4/16**

IPC 8 full level
E04H 4/12 (2006.01); **E04H 4/16** (2006.01)

CPC (source: EP US)
E04H 4/1272 (2013.01 - EP US); **E04H 4/169** (2013.01 - EP US)

Citation (search report)
See references of WO 2004109042A2

Cited by
CN106193675A

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 PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2004109042 A2 20041216; **WO 2004109042 A3 20050217**; AT E340906 T1 20061015; DE 602004002593 D1 20061109; DE 602004002593 T2 20070906; EP 1629163 A2 20060301; EP 1629163 B1 20060927; ES 2273275 T3 20070501; US 2006289344 A1 20061228; US 7311821 B2 20071225

DOCDB simple family (application)
FR 2004001019 W 20040427; AT 04742586 T 20040427; DE 602004002593 T 20040427; EP 04742586 A 20040427; ES 04742586 T 20040427; US 55839204 A 20040427