

Title (en)
TURBINE-DRIVEN AUTOMATIC SWIMMING POOL CLEANERS

Title (de)
TURBINENGETRIEBENE AUTOMATISCHE SCHWIMMBECKENREINIGER

Title (fr)
SYSTEME DE NETTOYAGE AUTOMATIQUE DE PISCINE A TURBINE

Publication
EP 1232314 A4 20050202 (EN)

Application
EP 00937905 A 20000526

Priority

- US 0014772 W 20000526
- US 15888499 P 19991012
- US 57599300 A 20000523

Abstract (en)
[origin: CA2387419A1] An automatic pool cleaner having a turbine (10) which includes a housing (12) having a flow chamber (14) and chamber wall (16) with inlet and outlet ports (18, 20), a rotatably-mounted turbine rotor (22), and turbine vanes (28) each having a proximal end connected to the rotor and a distal end movable with respect to the rotor between extended positions adjacent to the wall and retracted positions spaced from the wall and closer to the rotor to allow passage of debris pieces of substantial size through the turbine. Some preferred embodiments are: curved vanes (28); vanes pivotably mounted to the rotor; and an eccentric rotor mount in the turbine chamber. Pivotably-mounted vanes (28) preferably have enlargements (30) at their proximal ends which are freely insertable into cavities (116) in the rotor; most preferably, each vane is symmetrical about a center line such that either end is able to serve as the proximal end in engagement with the rotor.

IPC 1-7
E04H 4/16

IPC 8 full level
E04H 4/16 (2006.01)

CPC (source: EP)
E04H 4/1654 (2013.01)

Citation (search report)

- [X] US 847060 A 19070312 - GAMACHE CLEOPHAS [US]
- [A] US 3626265 A 19711207 - KRAAKMAN HILLEBRAND JOHANNES J
- See references of WO 0127415A1

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AT E397702 T1 20080615; AU 5301900 A 20010423; AU 778515 B2 20041209; BR 0014686 A 20020611; CA 2387419 A1 20010419; CA 2387419 C 20061128; DE 60039121 D1 20080717; EP 1232314 A1 20020821; EP 1232314 A4 20050202; EP 1232314 B1 20080604; EP 1232314 B8 20090107; ES 2310995 T3 20090201

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