

Title (en)

FOUR-WHEEL-DRIVE AUTOMATIC SWIMMING POOL CLEANER

Title (de)

AUTOMATISCHER SCHWIMMBECKENREINIGER MIT VIERRADANTRIEB

Title (fr)

DISPOSITIF AUTOMATIQUE DE NETTOYAGE DE PISCINE A QUATRE ROUES MOTRICES

Publication

**EP 1290298 B1 20051102 (EN)**

Application

**EP 00941156 A 20000526**

Priority

US 0014771 W 20000526

Abstract (en)

[origin: WO0192664A1] A four-wheel pool cleaner (20) motivated by water flow to move along a pool surface, and having: a body (24); the four wheels rotatably mounted thereon and including two sets of two wheels (22) each, one wheel of each set on each side; a drive mechanism (36) in position to be moved by water flow and having a rotatable drive member (76); a drive train extending to the first wheel set (22a, b) and to the second wheel set (22c, d), to drive all four wheels. Preferred embodiments include: wheel-to-wheel drive links (88) along the side; a turbine (36) as drive mechanism; a pair of spaced wheelgears (32, 34), preferably integrally formed with the wheel, facilitating drive linkages and steering; a pair of end-to-end drive shafts (80, 82) joined by a coupler (84c), one shaft end (80a) being a ball joint allowing fore-and-aft movement of a drive-shaft distal end; a spring (102) and cam (100) for alternately moving that distal end between a driving position engaging one of the spaced wheelgears (32), and a steering position engaging the other of the spaced wheelgears (34); wheel treads (108) with radial fingers (110), some (110a-c) of longer length; and a segmented articulated skirt (56) to help enclose a plenum beneath the pool cleaner.

IPC 1-7

**E04H 4/16**

IPC 8 full level

**E04H 4/16 (2006.01)**

CPC (source: EP)

**E04H 4/1654 (2013.01)**

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**WO 0192664 A1 20011206;** AT E308652 T1 20051115; AU 2000255905 A1 20020228; AU 2000255905 B2 20060727; AU 5590500 A 20011211; CA 2414117 A1 20011206; CA 2414117 C 20071030; DE 60023756 D1 20051208; DE 60023756 T2 20060427; EP 1290298 A1 20030312; EP 1290298 A4 20040407; EP 1290298 B1 20051102; ES 2250146 T3 20060416

DOCDB simple family (application)

**US 0014771 W 20000526;** AT 00941156 T 20000526; AU 2000255905 A 20000526; AU 5590500 A 20000526; CA 2414117 A 20000526; DE 60023756 T 20000526; EP 00941156 A 20000526; ES 00941156 T 20000526