

Title (en)  
SWIMMING POOL CLEANER WITH VIBRATORY POWER

Title (de)  
SCHWIMMBADREINIGER MIT VIBRATORENENERGIE

Title (fr)  
NETTOYEUR A ENERGIE VIBRATOIRE POUR PISCINES

Publication  
**EP 0726998 B1 20020313 (EN)**

Application  
**EP 94932040 A 19941024**

Priority  
• US 9412253 W 19941024  
• US 14799393 A 19931103

Abstract (en)  
[origin: WO9512730A1] A pool cleaner having an improved self-starting vibratory power source including a power-source chamber (24a) laterally defined by a pair of sealing walls (30f), a vibrator (30) which pivots in the chamber and has two wall-facing edges (30w) adjacent to the sealing walls and a pair of upstream flow-facing edges (30ue) positioned to be alternately reactive to fluid dynamic forces, and a seal (30d) along each wall-facing edge (30w) in sealing relationship with the sealing wall (30f) adjacent thereto and freely movable with respect to the sealing wall to accommodate passage of dirt and debris. Preferred embodiments include seals that have upstream arcuate surfaces (30us) which by virtue of wide notches (30i) in the vibrator, are substantially free of contact with the vibrator, and back edges (30h) substantially exposed to flow upstream of the vibrator, such that the seal is freely driven against the sealing wall by pressure differentials, freely self-adjusts to allow passage of dirt, and prevents accumulation of dirt.

IPC 1-7  
**E04H 4/16**; F01C 19/08

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

CPC (source: EP)  
**E04H 4/1636** (2013.01); **E04H 4/1663** (2013.01)

Designated contracting state (EPC)  
DE ES FR GB IT SE

DOCDB simple family (publication)  
**WO 9512730 A1 19950511**; AU 685529 B2 19980122; AU 8090994 A 19950523; BR 9407983 A 19961203; CA 2175364 A1 19950511; CA 2175364 C 20020430; DE 69430135 D1 20020418; DE 69430135 T2 20021128; EP 0726998 A1 19960821; EP 0726998 A4 19970709; EP 0726998 B1 20020313; ES 2179852 T3 20030201; ZA 948388 B 19960725

DOCDB simple family (application)  
**US 9412253 W 19941024**; AU 8090994 A 19941024; BR 9407983 A 19941024; CA 2175364 A 19941024; DE 69430135 T 19941024; EP 94932040 A 19941024; ES 94932040 T 19941024; ZA 948388 A 19941025