

Title (en)  
SUCTION HEAD FOR CLEANING IMMERSED SURFACES

Publication  
**EP 0356577 B1 19910327 (DE)**

Application  
**EP 88117338 A 19881018**

Priority  
EP 88113599 A 19880820

Abstract (en)  
[origin: US4920599A] A suction head for the cleaning of submerged surfaces, in particular the bottoms of swimming pools, comprises a drive mechanism which is driven by a water-driven turbine in turn driven by a stream of water drawn through the suction head by an external suction pump via a tube connected to the suction head for removing debris from the surface to be cleaned. The suction head is provided with a self-steering mechanism connected to the drive mechanism to be driven thereby and adapted to change the direction of movement of said suction head upon striking an obstacle, e.g. a swimming pool wall. The turbine comprises a turbine wheel located at the separation line of and within a two-part turbine housing held closed by releasable elastic locking means and which may be easily opened for maintenance, making the turbine wheel readily accessible. Inlet and outlet of the turbine housing are situated in a line defining a chord with respect to the rotary circle of the turbine wheel.

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

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

CPC (source: EP US)  
**E04H 4/1636** (2013.01 - EP); **E04H 4/1654** (2013.01 - EP US)

Cited by  
EP2900888A4; EP1980687A3; EP0565226A1; EP2275626A3; EP1980687A2; WO9922100A1

Designated contracting state (EPC)  
AT BE CH DE ES FR GB GR IT LI NL

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**EP 0356577 A1 19900307**; **EP 0356577 B1 19910327**; DE 3862192 D1 19910502; ES 2021813 B3 19911116; US 4920599 A 19900501; ZA 895548 B 19900725

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