

Title (en)

An automatic swimming pool cleaner

Title (de)

Automatische Vorrichtung für die Reinigung eines Schwimmbeckens

Title (fr)

Appareil automatique pour nettoyage de piscines

Publication

**EP 0476413 B1 19961211 (EN)**

Application

**EP 91114781 A 19910902**

Priority

US 58642590 A 19900921

Abstract (en)

[origin: EP0476413A2] A suction head (1) for a swimming pool cleaner comprising a housing (2) which is open at its lower side and has inclined bristles (9) attached to its lower edge for supporting on a surface to be cleaned. The housing (2) has a rotary sleeve (4) mounted to its top for connection of a suction hose in turn to be connected to a water suction pump. Said sleeve opens (4) in a chamber (32) within the housing (2) in which a vibratory element (11) is pivotally mounted, said element (11) having a crescent or air-foil shape. By a flow of water sucked through said chamber (32), the vibratory element (11) is automatically brought into a vibrating movement which imparts pulsations on the suction head (1). Thereby, the inclined bristles (9) are bent and straightened repetitively, resulting in a forward thrust moving the suction head over the surface to be cleaned. At least one foot is disposed in the housing (2) which is cyclically displaced vertically by a driving mechanism driven by the movement of the vibratory element (11) and returned by return springs (29). Said foot cyclically lifts off the suction head (1) at one side, resulting in a rotational movement of the suction head (1) about a vertical axis so as to change the direction of forward movement of the suction head. <IMAGE>

IPC 1-7

**E04H 4/16**

IPC 8 full level

**E04H 4/16** (2006.01)

CPC (source: EP)

**E04H 4/1654** (2013.01); **E04H 4/1663** (2013.01)

Cited by

EP0558337A1; EP0726999A4; EP0565226A1; US6292969B1; EP0559477A1; CN111820814A; US5386607A; AU663921B2; US5974647A; US5664275A; US5404607A

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