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(71) Applicant: **Maytronics Ltd.**
19350 D.N. Kibbutz (IL)

(72) Inventor: **GARTI, Efraim**
30900, Zichron Yaakov (IL)

(74) Representative: **Minoja, Fabrizio**
Bianchetti Bracco Minoja S.r.l.
Via Plinio, 63
20129 Milano (IT)

(54) **Pool cleaning robot**

(57) A pool cleaning robot (10) having an axis of symmetry (96) and a weight imbalance across the axis of symmetry. The robot is adapted to propel itself along a trajectory in the direction of the axis of symmetry (96) by

generating a first suction, and alter its trajectory as a result of the imbalance by generating a second suction which is of a lower power than the first suction.

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EUROPEAN SEARCH REPORT

Application Number
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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	US 4 168 557 A (RASCH WILHELM ET AL) 25 September 1979 (1979-09-25) * column 1, line 50 - column 2, line 66; figures 1-3 *	1-4	INV. E04H4/16
X	US 2004/025268 A1 (PORAT JOSEPH [US] ET AL) 12 February 2004 (2004-02-12) * figure 6 *	5	
			TECHNICAL FIELDS SEARCHED (IPC)
			E04H
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 11 June 2008	Examiner Zuurveld, Gerben
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
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