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(54) **Pool cleaner with contoured base**

(57) Disclosed herein is a swimming pool cleaner vehicle. The pool cleaner includes a body, which defines a hollow interior. The body has at least one intake port. The body has at least one outlet port. The pool cleaner includes various wheels and rollers and various combinations of wheels and rollers for moving the vehicle. The vehicle includes a bottom and the bottom is concave inwards. This invention describes a swimming pool cleaner with bottom concave inwards towards the hollow interior

for overcoming swimming pool floor obstacles when it runs in a swimming pool. The pool cleaning vehicle improves cleaning efficiency without affecting swimming pool cleaner reliability and cost of maintenance, or affecting the required partial vacuum and water flow rate. Additionally, having the intake port(s) at appropriate location(s) such as at close proximity to the wheels and/or rollers or combinations ensures water containing dirt and debris is sucked into the pool cleaner.

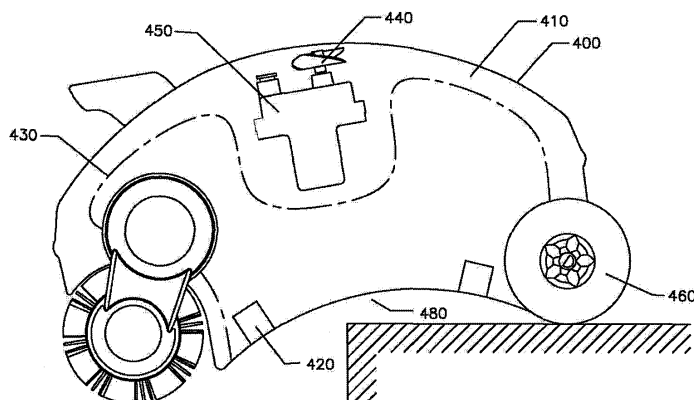


FIG 4



## EUROPEAN SEARCH REPORT

Application Number  
EP 08 15 3859

| DOCUMENTS CONSIDERED TO BE RELEVANT  |   |   |   |
|--|---|---|---|
| Category   | Citation of document with indication, where appropriate, of relevant passages   | Relevant to claim   | CLASSIFICATION OF THE APPLICATION (IPC) |
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| The present search report has been drawn up for all claims   |   |   |   |
| Place of search<br>Munich  |   | Date of completion of the search<br>21 October 2008   | Examiner<br>Decker, Robert              |
| CATEGORY OF CITED DOCUMENTS<br>X : particularly relevant if taken alone<br>Y : particularly relevant if combined with another document of the same category<br>A : technological background<br>O : non-written disclosure<br>P : intermediate document |   | T : theory or principle underlying the invention<br>E : earlier patent document, but published on, or after the filing date<br>D : document cited in the application<br>L : document cited for other reasons<br>.....<br>& : member of the same patent family, corresponding document |   |

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EPO FORM 1503 03.82 (P04C01)

**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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21-10-2008

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