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(54) Title: NOZZLE ASSEMBLY OF TOILET BIDET AND CONTROL METHOD THEREOF

[Fig- 3]

(57) Abstract: A nozzle assembly of a toilet bidet and its control method are disclosed. The nozzle assembly includes: a cleansing nozzle with a cleansing water flow path; a dispensing tube connected with the cleansing water flow path to dispense cleansing water; an actuator including a connector coupled to the dispensing tube and a plurality of polymer driving bodies coupled to the connector, wherein an electroactive polymer is housed within the polymer driving bodies, a pair of electrodes are formed on an outer surface of the polymer driving bodies, and when voltage is selectively applied to the electrodes of each polymer driving body, the electroactive polymer moves toward one electrode to force a corresponding polymer driving body to be bent to thereby adjust a dispensing angle of the dispensing tube; and a voltage supply unit that applies voltage to the electrode of the polymer driving body.
INTERNATIONAL SEARCH REPORT

PCT/KR2009/005606

A. CLASSIFICATION OF SUBJECT MATTER

E03D 9/08(2006.01)i

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

E03D 9/08, A47K 3/28, B05B 1/18, B05B 3/04, B05B 3/06

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

(Chinese Patents and application for patent)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords toilet, nozzle, polymer, angle

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
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<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No</th>
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<tbody>
<tr>
<td>A</td>
<td>JP 2003-275627 A (TOTO LTD.) 30 September 2003 See claims 1-4 and fig. 3.</td>
<td>1-18</td>
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<td>A</td>
<td>KR 10-0525837 BI (WOONGJIN COWAY CO., LTD.) 03 November 2005 See claim 1 and fig. 2</td>
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<td>A</td>
<td>JP 2007-054737 A (TOTO LTD.) 08 March 2007 See claim 1 and fig. 4</td>
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<td>A</td>
<td>JP 2005-118761 A (TOTO LTD.) 12 May 2005 See claims 1-2 and fig. 1.</td>
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* Special categories of cited documents

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Further documents are listed in the continuation of Box C

See patent family annex

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Name and mailing address of the ISA/KR

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