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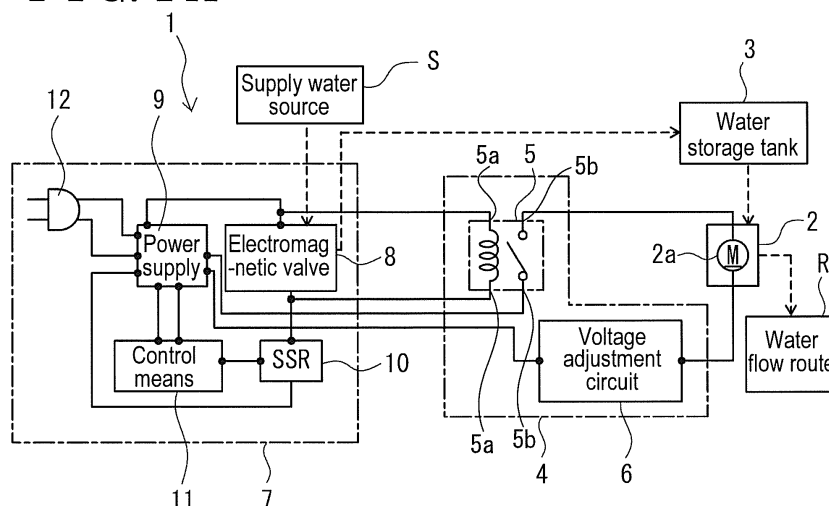
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(54) **Sanitary washing apparatus**

(57) A sanitary washing apparatus (1, 21) includes a pump (2) for delivering a washing water to a water flow route (R) to which the washing water flows, an electromagnetic valve (8) interposed between a supply water source (S) and the pump, and allowing the washing water to be supplied from the supply water source, a control means (11) for controlling the electromagnetic valve to open/close, and a switching circuit provided with a switching element (5), the switching circuit links an open-

ing/closing operation of the electromagnetic valve and an operation/operation stop of the pump to each other without an interposition of the control means, the switching circuit operates the pump when the electromagnetic valve is in an open state where the electromagnetic valve supplies the washing water and stops the pump when the electromagnetic valve is in a closed state where the electromagnetic valve blocks supply of the washing water.

FIG. 1 A





EUROPEAN SEARCH REPORT

Application Number
EP 13 16 4993

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	JP H11 303182 A (MATSUSHITA ELECTRIC IND CO LTD) 2 November 1999 (1999-11-02) * paragraphs [0003], [0004], [0016] - paragraph [0019]; figures 1,3,4 *	1-6	INV. E03D9/08
A	JP 2002 085290 A (TOTO LTD) 26 March 2002 (2002-03-26) * paragraphs [0003], [0019] - paragraph [0025]; figures 1,4,5 *	1-6	ADD. E03C1/05 E03B7/07
			TECHNICAL FIELDS SEARCHED (IPC)
			E03D E03C E03B
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 27 October 2015	Examiner Van Bost, Sonia
CATEGORY OF CITED DOCUMENTS 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 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			

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP H11303182 A	02-11-1999	JP 4174848 B2 JP H11303182 A	05-11-2008 02-11-1999
JP 2002085290 A	26-03-2002	NONE	

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