(11) **EP 1 760 184 A3**

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3: 18.03.2009 Bulletin 2009/12

(51) Int Cl.: **D06F 37/30** (2006.01)

(43) Date of publication A2: **07.03.2007 Bulletin 2007/10**

(21) Application number: 06016670.9

(22) Date of filing: 09.08.2006

(84) Designated Contracting States:

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated Extension States:

AL BA HR MK RS

(30) Priority: 05.09.2005 KR 20050082061

(71) Applicant: LG Electronics Inc. Youngdungpo-Gu Seoul (KR) (72) Inventors:

 Kim, Deok Kyu Incheon-si, Kyeonggi-do (KR)

 Jun, Cha Seung Seocho-gu, Seoul (KR)

 Min, Byoung Wook Dongjak-gu, Seoul (KR)

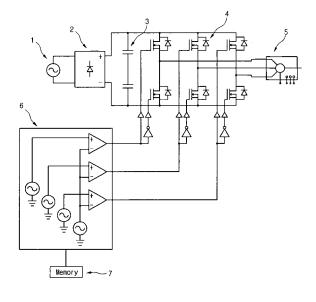
(74) Representative: Vossius & Partner Siebertstraße 4 81675 München (DE)

(54) Operating apparatus and method of a washing machine

(57) The operating apparatuses of a washing machine and the methods on that are renovated. The aforementioned washing machine is including: a memory (7) that the reference signals are saved in order to operate a motor (5) in a best condition according to each of the condition of the torque and noise; a control unit (6) which generates the switching signals as calling the reference

signals which are different each other according to the strokes of a washing machine, and comparing with the carrier signals; an inverter (4) which generates a motor operating signal as an external power is switched by a switching signal; a motor which is rotated by a motor operating signal; and a revolving screen of a washing machine which is operated by a motor.

FIG.1





EUROPEAN SEARCH REPORT

Application Number EP 06 01 6670

		RED TO BE RELEVANT				
Category	Citation of document with in- of relevant passa		Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)		
Х	US 2003/182975 A1 (ET AL) 2 October 200 * the whole documen		1-20	INV. D06F37/30		
А			1-20			
A	WO 92/07130 A (ICOT 30 April 1992 (1992 * the whole documen	-04-30)	1-20			
A			1-20			
A	EP 0 903 845 A (MATS LTD [JP]) 24 March : * the whole documen	1-20	TECHNICAL FIELDS SEARCHED (IPC)			
A	EP 0 489 970 A (BSG 17 June 1992 (1992- * the whole documen		1-20	D06F H02P		
А	GB 947 802 A (CONST 29 January 1964 (190 * the whole documen	54-01-29)	1-20			
	The present search report has b	een drawn up for all claims Date of completion of the search		Examiner		
	Munich	5 February 2009	Spi	itzer, Bettina		
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		T : theory or principle E : earlier patent doc after the filing date er D : document cited in L : document oited fo	underlying the i ument, but publi the application r other reasons	invention		
O : non	-written disclosure rmediate document	& : member of the sa document				

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 06 01 6670

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 The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

05-02-2009

Patent docu cited in searcl		Publication date		Patent family member(s)		Publication date
US 200318	32975 A1	02-10-2003	CN JP JP	1449106 3789843 2003289690	B2	15-10-200 28-06-200 10-10-200
WO 975017	'1 A	31-12-1997	AU DE DE EP JP	3183897 69732701 69732701 0908002 2000513196	D1 T2 A1	14-01-19 14-04-20 04-08-20 14-04-19 03-10-20
WO 920713	80 A	30-04-1992	AU DE DE EP ES TR	8623791 69112413 69112413 0552184 2080337 26731	D1 T2 A1 T3	20-05-19 28-09-19 18-04-19 28-07-19 01-02-19 15-05-19
EP 146474	.9 A	06-10-2004	CN WO JP JP TW US	1604976 03050341 3651595 2003181187 254756 2005160771	A1 B2 A B	06-04-200 19-06-200 25-05-200 02-07-200 11-05-200 28-07-200
EP 090384	l5 A	24-03-1999	CN CN CN US	1333398 1333399 1212305 6163912	A A	30-01-200 30-01-200 31-03-199 26-12-200
EP 048997	'0 A	17-06-1992	US	5146146	Α	08-09-199
GB 947802	? A	29-01-1964	FR	1284979	Α	16-02-196
	dia anno	fficial Journal of the Eurc	5	ALLE OFFICE NO. 40.70	•	