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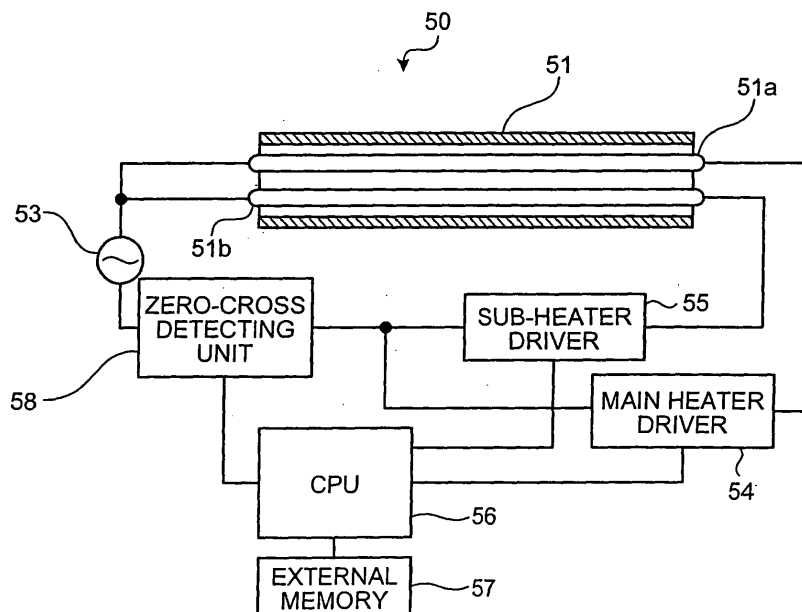
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(54) **Fixing device, image forming apparatus, and heating control method**

(57) A heating unit (51) is heated by supply of an alternate-current power. A heating control unit (54, 56) executes a phase control to supply the alternate-current power to the heating unit (51) for an ON-width in at least a half-wave period of the alternate-current power. A stor-

ing unit (57) stores therein parameters for calculating the ON width. The heating control unit (54, 56) calculates the ON width based on the parameters stored in the storing unit (57) and executes the phase control using a calculated ON width.

FIG.2





EUROPEAN SEARCH REPORT

Application Number
EP 08 25 1417

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 6 034 790 A (KAMEI NAOYUKI [JP] ET AL) 7 March 2000 (2000-03-07)	1,11-14	INV. G03G15/20
Y	* columns 1,2,20 *	2,3,6,8	
A	* columns 10-13; figures * * column 3, line 15 - line 19 * * column 24, line 30 - line 36 * * column 27, line 60 - column 4^28, line 4 * * column 31, lines 60-65 * -----	4,5,7,9, 10	
Y	JP 62 014215 A (RICOH KK) 22 January 1987 (1987-01-22)	2,3,6,8	TECHNICAL FIELDS SEARCHED (IPC) G03G H05B
A	* figures * * abstract *	1,5,7, 9-14	
A	US 5 907 743 A (TAKAHASHI MASAKO [JP]) 25 May 1999 (1999-05-25) * the whole document * -----	1-14	
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 12 October 2010	Examiner Lipp, Günter
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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**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 08 25 1417

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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12-10-2010

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 6034790 A	07-03-2000	JP 10133504 A	22-05-1998
JP 62014215 A	22-01-1987	NONE	
US 5907743 A	25-05-1999	DE 69719277 D1	03-04-2003
		DE 69719277 T2	11-09-2003
		EP 0836123 A1	15-04-1998
		HK 1009526 A1	04-07-2003
		IT 1295419 B1	12-05-1999
		JP 10115997 A	06-05-1998

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82