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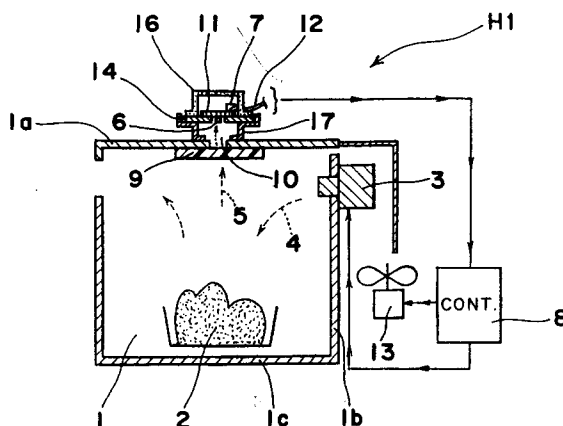
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(54) **High frequency heating apparatus and electromagnetic wave detector for use in high frequency heating apparatus.**

(57) A high frequency heating apparatus and an electromagnetic wave detector for use in the high frequency heating apparatus, which are so arranged to estimate the state of a food article placed in a heating chamber through detection of microwaves within the heating chamber. By devising a position of an antenna and a method of processing signals of the microwaves as detected, it becomes possible to effect detection of microwaves extremely stably and at high reliability.

Fig. 2



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EUROPEAN SEARCH REPORT

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
A	US-A-4 211 911 (RUDOLPH A. DEHN) * column 2, line 36 - line 51; figures 1-3 * ---	1,3,6, 8-10,12	H05B6/80 H05B6/68
A	US-A-4 853 703 (MURAKAMI ET AL.) * column 2, line 42 - column 3, line 54; figures 1A-1D * ---	1,3,4,6, 9,10	
E	EP-A-0 461 269 (MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.) * the whole document * ---	1-3,5-13	
A	US-A-3 778 717 (OKOSHI ET AL.) ---		
A	US-A-4 442 590 (STOCKTON ET AL.) ---		
A	PATENT ABSTRACTS OF JAPAN vol. 014, no. 102 (E-894)23 February 1990 & JP-A-01 304 688 (MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.) 8 December 1989 * abstract * -----		
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			H05B H01Q
Place of search THE HAGUE		Date of completion of the search 07 MAY 1992	Examiner RAUSCH R.G.
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	