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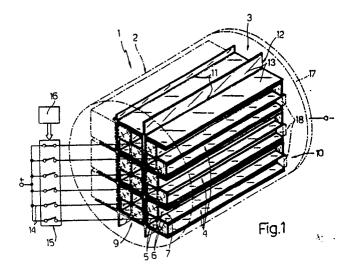
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- (SI) Regenerable filter in exhaust gases of an internal-combustion engine.
- The filter is formed by a plurality of elongated honey-comb cells (4), each one including at least a pair of cavities (7) having walls (5,6) made of electrically conductive porous material, which are power supplied for raising the temperature of the residual combustion products of the exhaust gases. Each cavity (7) is provided with an open end and a closed

end (8), the open end of the cavities of each pair communicating with an inlet duct, and the other with an outlet duct of the filter, thus intercepting said residual combustion products. The cells (4) are arranged in a reticulate structure (12) defined by insulating intersecting flat walls (13) to insulate the cells (4) from each other.







EUROPEAN SEARCH REPORT

EP 90 11 0810

Category	Citation of document with indi of relevant passa		Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)	
A,D	US-A-4276066 (BLY)		1	F01N3/02	
,5	* the whole document *				
A	PATENT ABSTRACTS OF JAPAN vol. 7, no. 252 (C-194)() & JP-A-58 137423 (NIPPON	09 November 1983,	1		
	August 1983, * the whole document *				
A	US-A-4503672 (STARK) * column 2, lines 20 - 53 * column 3, line 29 - col 1, 2 *		1, 4		
A	US-A-4427418 (KOGISO) * column 2, line 38 - col 1-4 *	umn 4, line 68; figures	1		
A	US-A-4516993 (TAKEUCHI) * column 2, line 61 - col 1, 2 *	umn 4, line 64; figures	1	TECHNICAL FIELDS SEARCHED (Int. Cl.4)	
A	US-A-4505726 (TAKEUCHI) * abstract * * column 4, lines 55 - 68	3; figure 9 *	1	F01N	
A	US-A-4505107 (YAMAGUCHI) * column 5, lines 4 - 29;	figures 5, 6 *	1		
Α	EP-A-0112634 (GENERAL MOT	TORS CORPORATION) 			
	The present search report has been			Fyomine	
		Date of completion of the search 13 SEPTEMBER 1990	FRI	Examiner FRIDEN C.M.	
X : par Y : par doc	CATEGORY OF CITED DOCUMENT ticularly relevant if taken alone ticularly relevant if combined with anoth ument of the same category hnological background	E : earlier patent do after the filing d er D : document cited L : document cited	cument, but publate in the application for other reasons	lished on, or	
O: noi	n-written disclosure ermediate document	&: member of the s document	same patent fami	ly, corresponding	

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