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(54) Zoning system

A zoning system (10) for use with a HVAC system (35) wherein the HVAC system (35) supplies conditioned air through a common duct to a plurality of zones, a zone damper means is disposed at each zone outlet such that the zone damper means controls air flow from the common duct to the respective zones. A user interface (15) is employed which provides a command signal (65) to the zone damper means. A temperature sensor (20) which provides a temperature signal to the zone damper means (25) is disposed in the zones. In response to the command signal and the temperature signal, the zone damper means (25) controls the air flow from the common duct to the respective zone and provides an operation mode signal and a temperature related control signal to a main control (30). The main control (30) provides a system mode signal and a system capacity signal to a means for conditioning air for controlling a system mode and a system capacity based on the mode and temperature related control signals received from said zone dampers.

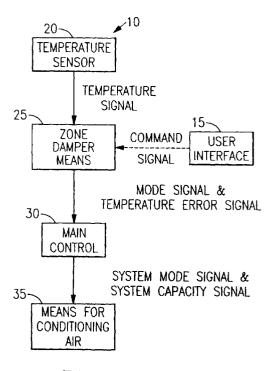


FIG.1



EUROPEAN SEARCH REPORT

Application Number EP 94 63 0073

Category	Citation of document with in of relevant pa	ndication, where appropriate, ssages		elevant claim		ATION OF THE ON (Int.Cl.6)
X Y	US 4 931 948 A (PAR June 1990 * abstract *		2	1,5,8 5,7	F24F11/6 G05D23/	
A	* column 10, line 6 * column 16, line 1 * figures 1,2 *		ne 63 3,0	0,/		
х	GB 2 227 335 A (TOS 25 July 1990	HIBA KABUSHIKI KA	ISHA) 1,4	1,5,8		
A	* page 5, line 26 - figures 1-3 *	page 12, line 5;	2,3	3,6,7		
Х	EP 0 520 827 A (HON 1992	EYWELL INC) 30 De	cember 1,4	1,5,8		
A	* column 4, line 6			3,6,7		
Υ .	US 5 224 648 A (SIM July 1993					
Α	* column 1, line 19 * claims *	- line 32 *	1,3	3-8	TECHNICA SEARCHE	AL FIELDS D (Int.Cl.6)
					F24F G05D	
	The present search report has b	een drawn up for all claims Date of completion of th	e search		Examiner	
	THE HAGUE	10 April 19	997	Van	Dooren,	M
X : par Y : par doc	CATEGORY OF CITED DOCUMEN icularly relevant if taken alone icularly relevant if combined with and ument of the same category inological background	E : earlie after other D : docur L : docur	y or principle und er patent documen the filing date ment cited in the nent cited for othe	t, but publi application er reasons	shed on, or	

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