

12 EUROPEAN PATENT APPLICATION

21 Application number: 85301636.8

51 Int. Cl.⁴: F 24 F 1/02
 F 24 F 11/02

22 Date of filing: 08.03.85

30 Priority: 28.03.84 GB 8407992

43 Date of publication of application:
 09.10.85 Bulletin 85/41

88 Date of deferred publication of search report: 05.02.86

84 Designated Contracting States:
 AT BE CH DE FR GB IT LI LU NL SE

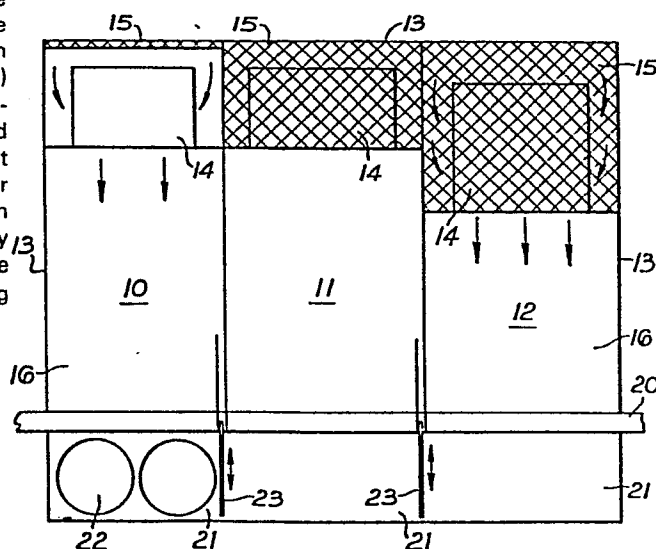
71 Applicant: HOWORTH AIR ENGINEERING LIMITED
 Victoria Works Lorne Street
 Farnworth Bolton BL1 7LZ Lancashire(GB)

72 Inventor: Howorth, Frederick Hugh
 Ollerton Hall
 Ollerton Near Chorley Lancashire(GB)

74 Representative: Daunton, Derek
 Barlow, Gillett & Percival 94, Market Street
 Manchester M1 1PJ(GB)

54 Air conditioning system.

57 An economical and efficient air conditioning system for supplying clean air to equipment, such as a main frame computer, comprises a row of units (10, 11, 12) arranged side by side. Each unit 1 has an impeller (14) which draws air in through a filter (15) and forces it through cooling means (16) to underfloor ducts which supply the equipment. Temperature sensors, e.g. under the floor, control the impeller speed and the cooling means temperature so that the equipment temperature is maintained in the narrow range required for optimum functioning. If one unit should fail or be shut down for servicing the adjacent units can provide temporary back-up by opening of dampers (23) at each side of the affected unit and increased impeller speed in the remaining units.





European Patent
Office

EUROPEAN SEARCH REPORT

01 57507
Application number

EP 85 30 1636

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. 4)
A	REVUE PRATIQUE DU FROID ET DU CONDITIONNEMENT D'AIR, vol. 26, 15th November 1973, pages 69-73, Paris, FR; CH. FONTANEL: "Les ordinateurs: comment bien concevoir leur climatisation" * Page 71; figures *	1	F 24 F 1/02 F 24 F 11/02 // H 05 K 7/20 G 06 F 1/00
A	IBM TECHNICAL DISCLOSURE BULLETIN, vol. 16, no. 1, June 1973, pages 296-297, Armonk, New York, US; R.C. CHU et al.: "Air cooling scheme" * Page 297, lines 1-9 *	1	
A	US-A-3 865 182 (BLOSSOM) * Column 4, lines 23-34; figures 1,3 *	1	
A	FR-A-2 442 407 (BURGARELLA) * Page 4, lines 15-22 *	1	
A	IBM TECHNICAL DISCLOSURE BULLETIN, vol. 25, no. 5, October 1982, pages 2557-2558, Armonk, New York, US; J.V. MIZZI: "Adjustable fan plenum" * Page 2558, lines 4-11; figures *	2	
			TECHNICAL FIELDS SEARCHED (Int. Cl. 4)
			F 24 F F 24 D H 05 K G 06 F
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 21-10-1985	Examiner BORRELLI R.M.G.A.
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	





DOCUMENTS CONSIDERED TO BE RELEVANT			Page 2
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)
A	IBM TECHNICAL DISCLOSURE BULLETIN, vol. 15, no. 12, May 1973, pages 3654-3655, Armonk, New York, US; R.C. CHU et al.: "Uninterruptible modular air-cooled system" * Page 3654, last paragraph; page 3655, paragraph 1 *	4	
A	--- REVUE PRATIQUE DU FROID ET DU CONDITIONNEMENT D'AIR, vol. 27, 15th May 1974, pages 77-88, Paris, FR; G. VANDERBORRE: "Traitement de "l'environnement" d'une salle d'ordinateur" * Page 78, column 2, paragraph 3; page 83, column 2, paragraph 4; figures * -----	7	
			TECHNICAL FIELDS SEARCHED (Int. Cl. 4)
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 21-10-1985	Examiner BORRELLI R.M.G.A.
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	