

(19)



Europäisches Patentamt
European Patent Office
Office européen des brevets

(11) Publication number:

0 186 268
A3

(12)

EUROPEAN PATENT APPLICATION

(21) Application number: 85307142.1

(51) Int. Cl.4: **F16K 47/04**

(22) Date of filing: 04.10.85

(30) Priority: 11.10.84 GB 8425671
25.04.85 GB 8510583

(43) Date of publication of application:
02.07.86 Bulletin 86/27

(64) Designated Contracting States:
BE DE FR GB IT LU NL SE

(86) Date of deferred publication of the search report:
08.07.87 Bulletin 87/28

(71) Applicant: **RADIALTEMP LIMITED**
P.O. Box 176
Harrow Middlesex HA1 4PS(GB)

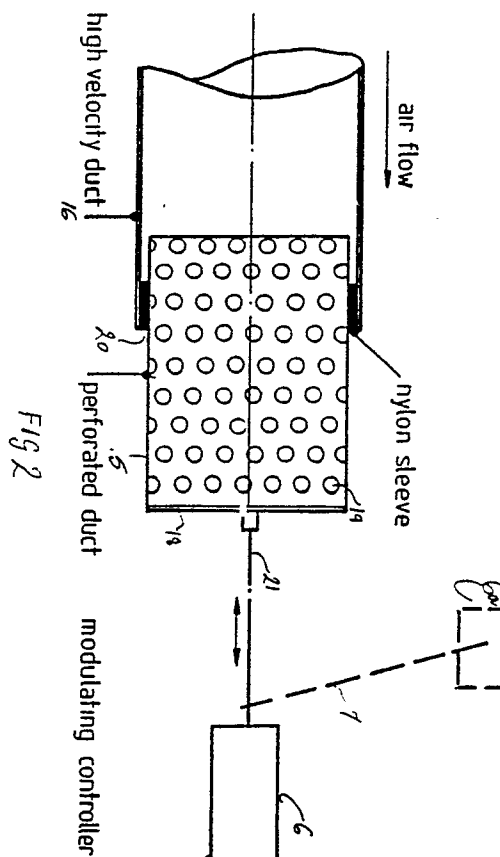
(72) Inventor: **Giles, James M.**
P.O. Box 176 Harrow
Middlesex HA1 4PS(GB)

(74) Representative: **Smart, Peter John et al**
W.H. BECK, GREENER & CO 7 Stone
Buildings Lincoln's Inn
London WC2A 3SZ(GB)

(54) **Fluid control valves and air treatment systems.**

(57) A fluid control valve comprising means defining a flow path for fluid (16), a variable flow restrictor in said flow path comprising a wall member (5) bounding a portion of said flowpath, and having flow passages (19) therethrough, means (20) for at least substantially closing a portion of said wall member against fluid flow therethrough, means (6) for producing relative movement between said wall member and said closure means to vary the area of said wall member exposed for fluid flow therethrough, the size of the flow passages through said wall member being such that there is at least one inlet pressure at which the valve with at least a substantial portion of the wall member exposed for fluid flow will produce a pressure drop substantially equivalent to the inlet pressure.

Preferably, said valve will produce said pressure drop at inlet pressures above 498 Pa (2 inches water gauge).



EP 0 186 268 A3



EP 85 30 7142

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)
X	US-A-3 821 968 (BARB) * column 2, lines 54-57; figure 1 *	1,3,4,8	F 16 K 47/04
A	US-A-3 605 787 (KROGFOSS et al.) * column 4, line 59 - column 5, line 6; column 3, line 27; figure 4 *	1,3,4,8	
A	GB-A-1 226 089 (TITUS) * claim 1; figure 5 *	1,4,8,9,10	
A	DE-A-2 410 231 (MAX-PLANCK-GESELLSCHAFT) * figure 14 *	1,4,8	
A	FR-A- 619 503 (PASCALE) * figure 1 *	1,4,8	TECHNICAL FIELDS SEARCHED (Int. Cl. 4)
A	DE-A-2 654 769 (HELBLING) * figure 1 *	5-7	F 16 K 47/00
A	US-A-3 880 191 (BAUMANN) * figures 1-4 *	5-7	
The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 18-03-1987	Examiner SCHLABBACH M

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



EP 85 30 7142

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	US-A-3 127 909 (ALAMPRESE) * figures 1-3 *	5-7	
D,A	--- US-A-3 929 285 (DAUGHERTY) * figure 2 *	9,10	
D,A	--- GB-A-2 069 127 (SIMMONS) * figure 1 *	9,10	
D,A	--- GB-A-1 316 887 (CONSTANT AIR SYSTEMS)		
D,A	--- US-A-3 669 349 (HALL) -----		
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
Place of search BERLIN		Date of completion of the search 18-03-1987	Examiner SCHLABBACH M
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	