

(19)



Europäisches Patentamt
European Patent Office
Office européen des brevets



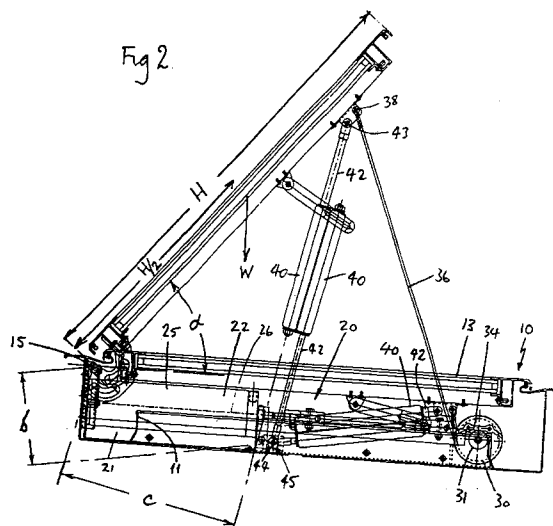
(11) Publication number:

0 430 720 A3

(12)

EUROPEAN PATENT APPLICATION(21) Application number: **90313118.3**(51) Int. Cl.⁵: **F24F 7/00, F24F 13/14,
E05F 1/10**(22) Date of filing: **03.12.90**(30) Priority: **01.12.89 GB 8927216**(43) Date of publication of application:
05.06.91 Bulletin 91/23(84) Designated Contracting States:
AT BE CH DE DK FR GB IT LI LU NL SE(88) Date of deferred publication of the search report:
02.09.92 Bulletin 92/36(71) Applicant: **COLT INTERNATIONAL LIMITED**
New Lane
Havant Hampshire PO9 2LY(GB)(72) Inventor: **Pothecary, David Richard****Sunnyview, Forestside**
Rowlands Castle, Hampshire PO9 6EO(GB)Inventor: **Cawte, Trevor Leonard****12 Park Farm Avenue****Fareham, Hampshire PO15 6LO(GB)**Inventor: **Hinks, David****15 Gladstone Gardens, Portchester****Fareham, Hampshire PO16 9RZ(GB)**Inventor: **Warnes, Terrence Raymond****67 Stansted Crescent, West Leigh****Havant, Hampshire PO9 5NL(GB)**(74) Representative: **Hughes, Brian Patrick et al**
Graham Watt & Co. Riverhead
Sevenoaks, Kent TN13 2BN(GB)(54) **Improvements relating to ventilators.**

(57) A sprung to open hinged flap ventilator having an opening spring (40) in the form of a linearly extendible strut the effective radius of action of which increases as the flap is moved from its closed to its fully open position, the strut being composed of a series of springs (40) of different linear spring rates.

**EP 0 430 720 A3**



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number

EP 90 31 3118

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	EP-A-0 314 201 (COLT INTERNATIONAL) * abstract; figure 1 * ---	1,2	F24F7/00 F24F13/14 E05F1/10
A	FR-A-2 578 017 (FICHTEL & SACHS INDUSTRIES) * abstract * * page 5, lines 19 - 30 * * figures 1,2 * ---	1	
A	GB-A-1 423 832 (THE BLOXWICH LOCK AND STAMPING COMPANY) * page 1, lines 23 - 47 * * page 2, lines 22 - 35 * * figure 1 * ---	1	
A	FR-A-2 542 360 (ALCAUD) * page 4, line 4 - page 5, line 7; figures 1,2 * ---	1	
A	DE-A-2 633 123 (COLT INTERNATIONAL) * page 8, line 22 - page 9, line 3 * * page 11, line 25 - page 12, line 6 * * page 12, line 21 - page 13, line 12 * * figures 1,4 * -----	1	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			F24F A62C E05F
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 26 JUNE 1992	Examiner VRUGT S. C.
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			