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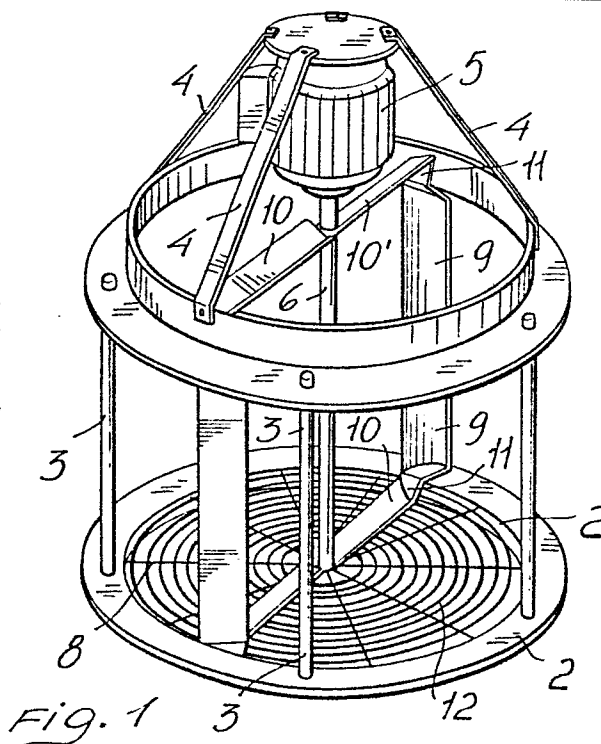
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54 Axial and centrifugal fan.

57 Electromechanical fan apparatus operable to provide a new type of ventilation comprises a rotor constituted by a rectangular frame (9, 10, 11) mounted to turn about an axis (6) lying in the plane of the frame and parallel to two opposite sides (9) thereof. These sides (9) of the frame, parallel to the axis of rotation (6), are constituted by blades having cylindrical surfaces, with the concavity directed towards the direction of movement, whilst the other two sides of the frame, orthogonal to the axis of rotation (6) are each constituted by two pairs of oppositely inclined blades (10, 10') also having cylindrical curved surfaces and a concavity facing in the direction of movement or in the opposite direction from this.

The rotation of rotor (9, 10, 11) consequently causes axial displacement of air from both ends of the rotor, preferably drawing such air streams in and causing an intimate mixing thereof before the mixed air is expelled radially.





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)
Y	US-A-2 333 673 (POFF) * Figures 1,2,4,6; page 1, column 1, lines 1-8; line 27 - column 2, line 19 *	1,5,6,8	F 04 D 25/08 F 04 D 17/16
A	---	3	
Y	US-A-2 104 233 (LEINWEBER) * Figures 1-3; page 1, column 1, lines 32-58 *	1,5,6,8	
A,P	SOVIET INVENTIONS ILLUSTRATED, Derwent Publications, London, Section Mechanical, Week 8532, abstract no. 85-195479/32, P12, 19th September 1985; & SU-A-1 134 798 (KIROV AGRI INST) 15th January 1985	5,6,7	TECHNICAL FIELDS SEARCHED (Int. Cl. 4) F 04 D
A	DE-A-2 456 521 (OPEL) * Figure 6; page 12, first paragraph; page 1, first paragraph *	3,5,8	
A	US-A-1 568 946 (GENERICH) * Whole document *	1	
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The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 17-06-1987	Examiner TEERLING J.H.
CATEGORY OF CITED DOCUMENTS		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	
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			



DOCUMENTS CONSIDERED TO BE RELEVANT

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)
A	DE-A-2 151 609 (VEB KOMBINAT LUFT- UND KÄLTETECHNIK) * Figure 5; page 1, first paragraph; page 8, paragraph 3; claim 6 * -----	1,5,8	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int. Cl. 4)
Place of search THE HAGUE	Date of completion of the search 17-06-1987	Examiner TEERLING J.H.	
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			