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(54) Title: SOLAR AIR SYSTEM

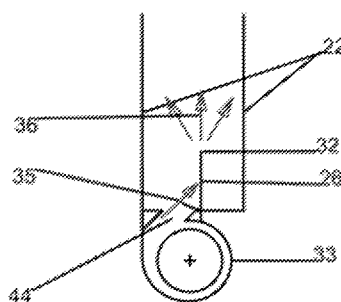


Fig. 4

(57) Abstract: The present invention relates to a solar air system comprising: • - at least one air duct (A, B, C) for heat transfer, having a cross- sectional area of the air duct, wherein the air duct has a fixed cross- section along its entire length, • - air inlet duct in fluid connection with air duct to supply air to it for heat transfer purposes, having a cross-section of the inlet duct, and • - fan system in fluid connection with the inlet duct to supply air to it for heat transfer purposes, wherein the fan system is configured to supply air flow stream having static pressure higher than the static pressure of the axial fan, and the system additionally comprises at least one resonator (26) installed in the air duct to change air flow from laminar to turbulent, the inlet duct is configured to supply air flow stream to the resonator (26) at an angle, to the resonator (26) surface, wherein the cross-section of the inlet duct (44) is less than the cross-section of the air duct of the air system.



INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 F24J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 266 531 A (BEHRENDT BRUCE O ET AL) 12 May 1981 (1981-05-12)	1-10,12, 14-16
Y	column 3, line 16 - column 4, line 28; figures 2-6	11
X	US 4 154 222 A (YU YING-NIEN [US]) 15 May 1979 (1979-05-15)	1,3-5, 12,16
Y	column 2, line 45 - column 3, line 56; figures	11
X	US 4 282 856 A (STEHL OTTO ET AL) 11 August 1981 (1981-08-11)	1,2,5-7, 9,10,16
A	US 2013/118479 A1 (FOURMIGUE JEAN-FRANCOIS [FR] ET AL) 16 May 2013 (2013-05-16) abstract; figures	1-16



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See patent family annex.

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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