(54) Title of the invention : ADAPTIVE AIR CIRCULATION DEVICE

(22) Date of filing of Application :15/10/2024

(43) Publication Date : 25/10/2024

 (51) International classification (86) International Application No Filing Date (87) International Publication No (61) Patent of Addition to Application Number Filing Date (62) Divisional to Application Number 	:NA	 (71)Name of Applicant : 1)Chitkara University Address of Applicant : Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Rajpura
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(57) Abstract :

An adaptive air circulation device, comprising a cuboidal body 101 placed over a stand that provides stability to body 101 on a ground surface and having three sides crafted with grill 113 for allowing surrounding air to be withdrawn within body 101, plurality of motorized fans 102 rotate for blowing withdrawn air in surroundings, an infrared sensor 109 detects exact location of user(s) in surroundings, plurality of louvers 103 installed front side in vertical and horizontal orientation, a stepper motor coupled with louvers 103 for tilting louvers 103 towards user(s) for providing maximum cooling effect to user(s), a humidity sensor 110 detects humidity level in surroundings, a cooling coil 113 cools air withdrawn in body 101, a temperature sensor 111 detects temperature of surroundings, and a tip-off sensor detects tipped over conditions of fans 102.

No. of Pages : 19 No. of Claims : 7