

(54) Title of the invention : AUTOMATED ENERGY SAVING EXHAUST FAN ASSEMBLY

<p>(51) International classification :F24C0015200000, F24F0011560000, F24F0007013000, F04D0027000000, A61L0009120000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Chitkara University Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----</p> <p>2)Chitkara Innovation Incubator Foundation Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)AGGARWAL, Rashmi Address of Applicant :Chitkara Business School, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala ----- --</p> <p>2)VERMA, Vishal Address of Applicant :Chitkara College of Hospitality Management, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----</p> <p>3)KUMAR, Kuldeep Address of Applicant :Chitkara College of Hospitality Management, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----</p> <p>4)AHUJA, Sachin Address of Applicant :CURIN, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----</p>
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(57) Abstract :

The present disclosure discloses an exhaust fan assembly (100) that operates automatically upon detection of odour to save energy and also dispenses fragrance. The assembly (100) includes an exhaust fan (102) to discharge indoor air outdoor, at least one sensor (104) configured to detect odour in a pre-defined area, and correspondingly the exhaust fan (102) is activated. Additionally, a reservoir (106) attached to the exhaust fan (102) accommodates an air freshness substance, and upon receiving an activation signal from a controller (108), the air freshness substance is discharged that diffused in the air. Moreover, the exhaust fan (102) is automatically turned off, when no odour is detected.

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