

(54) Title of the invention : TREATMENT OF VEHICULAR EXHAUST WITH TIN OXIDE FILTER

<p>(51) International classification :B01D004600000, A62B0007100000, G01N0027120000, B01D0053040000, A61B0005053000</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)KUMAR, Aashish Address of Applicant :Chitkara University Institute of Engineering & Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----</p> <p>2)CHITKARA, Mansi Address of Applicant :Chitkara University Institute of Engineering & Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----</p> <p>3)DHILLON, Gulshan Address of Applicant :Chitkara University School of Maritime Studies, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----</p> <p>4)SINGH, Adhish Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----</p>
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(57) Abstract :

The present invention relates to a device (300) to treat harmful gases introduced into the environment by vehicles. The device comprises a filtration module (204), an impedance unit (208), and a processing unit (310). A tin oxide (SnO₂) based filtration module (204) is configured to absorb harmful gases emitted from the engine (304) of the vehicle and release filtered air. The filtration module (204) is installed in the catalytic converter (106). An impedance unit (208) is attached to the filtration module (204) to determine the impedance of the filtration module (204).

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