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(57) Abstract :

The present invention relates to the multi-walled carbon nanotubes (MWCNTs) membrane-based air filter, with an effective and long-lasting FPMs, PAHs- BAP, and HM filters using a high surface area, nano porous, thermally stable MWCNTs membrane. The said nanomembranes are made up of randomly distributed MWCNTs, resulting in large surface areas and better filtration performance for a wide range of particle sizes (FPMs0.3), PAHs, and HM (Ni and Cd), within pressure differentials, light weight, thin, high thermal stable, nanopore size, packing density, porosity.

No. of Pages : 60 No. of Claims : 5



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प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित *MULTIWALLED CARBON NANOTUBE MEMBRANE BASED AIR FILTER* नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख अक्टूबर 2022 के पच्चीसवें दिन से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled *MULTIWALLED CARBON NANOTUBE MEMBRANE BASED AIR FILTER* as disclosed in the above mentioned application for the term of 20 years from the 25th day of October 2022 in accordance with the provisions of the Patents Act, 1970.



पेटेंट नियंत्रक
Controller of Patents

अनुदान की तारीख : 23/10/2023
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टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, अक्टूबर 2024 के पच्चीसवें दिन को और उसके पश्चात प्रत्येक वर्ष में उसी दिन देय होगी।

Note. - The fees for renewal of this patent, if it is to be maintained, will fall / has fallen due on 25th day of October 2024 and on the same day in every year thereafter.