

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311048195 A

(19) INDIA

(22) Date of filing of Application :18/07/2023

(43) Publication Date : 11/08/2023

(54) Title of the invention : EFFICIENT FLUORIDE SORPTION FROM WASTEWATER ON BRYOPHYLLUM PINNATUM ACTIVATED BIOCHAR EMBEDDED IN FUNNEL FOR EARTHEN POTS

(51) International classification	:A61K 364100, B01J 202000, C02F 012000, C02F 012800, E02D 290200	(71)Name of Applicant : <b>1)Chitkara University</b> Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India Rajpura -----
(86) International Application No	:NA	<b>2)Chitkara Innovation Incubator Foundation</b>
Filing Date	:NA	<b>Name of Applicant : NA</b>
(87) International Publication No	: NA	<b>Address of Applicant : NA</b>
(61) Patent of Addition to Application Number	:NA	(72)Name of Inventor :
Filing Date	:NA	<b>1)Dr. Jyotsna Kaushal</b>
(62) Divisional to Application Number	:NA	Address of Applicant :Centre for Water Sciences, CURIN, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India Rajpura -----
Filing Date	:NA	-----
		<b>2)Ms. Pooja Kashyap</b>
		Address of Applicant :Centre for Water Sciences, CURIN, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India Rajpura -----
		-----

(57) Abstract :

ABSTRACT EFFICIENT FLUORIDE SORPTION FROM WASTEWATER ON BRYOPHYLLUM PINNATUM ACTIVATED BIOCHAR EMBEDDED IN FUNNEL FOR EARTHEN POTS The present invention provides a method for treatment of water to produce recycled water by using biochar sorbent made by drying leaves of Bryophyllum pinnatum at a temperature of 60 -80°C for 24 hours and then pyrolyzing at temperature of 400° C. to 600° C for 2-4 hours to obtain a biochar which is doped with 0.1M aluminium sulphate solution while stirring for 4-6 hours and drying at a temperature of 95° C. to 105° C to obtain biochar sorbent. Fig. 1

No. of Pages : 14 No. of Claims : 5