(19) INDIA

(22) Date of filing of Application :01/06/2021 (43) Publication Date : 10/03/2023

(54) Title of the invention : PROCESS AND SYSTEM FOR SILICA SEPARATION FROM BIOMASS USING CONTROLLED MICROWAVE

(51) International classification	:C08G0018100000, C01B0003040000, B32B0027300000, A61K0009510000, C09D0005000000	(71)Name of Applicant: 1)Chitkara Innovation Incubator Foundation Address of Applicant: SCO: 160-161, Sector - 9c, Madhya Marg, Chandigarh- 160009, India. Chandigarh India (72)Name of Inventor:
(31) Priority Document No	:NA	1)SALUJA, Nitin Kumar
(32) Priority Date	:NA	2)SINGH, Gurjinder
(33) Name of priority country	:NA	3)SINGH, Varinder
(86) International Application No	:NA	4)DHULL, Nikhil
Filing Date	:NA	5)KANT, Deepender
(87) International Publication No	: NA	•
(61) Patent of Addition to Application Number:NA		
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract:

The present disclosure relates generally to the field of chemical engineering. More specifically, the disclosure is directed to a process for silica separation from biomass using controlled microwave wherein the controlled microwave has electric field (E) to magnetic field (H) ratio of about 17:1 to about 10:1. The present disclosure also provides a system for silica separation from biomass using the controlled microwave.

No. of Pages: 17 No. of Claims: 9