

(54) Title of the invention : ULTRAFAST SILICA GEL SYNTHESIS PROCESS USING CROP WASTE

(51) International classification	:B01J 201000, C01B 331540, C08L 970200, G01S 075200, H01M 100400
(86) International Application No	:NA
Filing Date	:NA
(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

(71)**Name of Applicant :**
1)Chitkara University
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India Rajpura -----
2)Chitkara Innovation Incubator Foundation
Name of Applicant : NA
Address of Applicant : NA
 (72)**Name of Inventor :**
1)Mr. Maninderjeet Singh
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India Rajpura -----
2)Mr. Nitin Kumar Saluja
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India Rajpura -----
3)Mr. Varinder Singh
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India Rajpura -----
4)Dr. Rajesh Kumar
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India Rajpura -----
5)Mr. Chanpreet Singh
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India Rajpura -----

(57) Abstract :
 ABSTRACT ULTRAFAST SILICA GEL SYNTHESIS PROCESS USING CROP WASTE A method for synthesizing crop waste is disclosed. The method comprises shredding crop waste into small pieces, adding potassium hydroxide (KOH) solution to the shredded crop waste, heating the potassium hydroxide solution in a microwave oven, performing filtration process on the heated solution, treating the filtered solution with hydrochloric acid (HCL) acid, and carrying out the centrifugation process to separate silica gel particles from the treated mixture. [Figure 1]

No. of Pages : 14 No. of Claims : 10