(12) PATENT APPLICATION PUBLICATION

(22) Date of filing of Application :05/12/2022

(54) Title of the invention : SYSTEM FOR HYDROPONIC CULTIVATION OF SAFFRON

 (51) International classification (86) International Application No Filing Date (87) International Publication No (61) Patent of Addition to Application Number Filing Date (62) Divisional to Application Number Filing Date 	:A01G0007040000, A01G0031020000, A61K0036880000, A01G0009240000, H01L0021670000 :NA :NA : NA : NA m:NA :NA :NA :NA	 (71)Name of Applicant : 1)Chitkara University Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala
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(57) Abstract :

Embodiments of the present disclosure may include a system 100 for hydroponic cultivation of saffron, the system including one or more chambers 102 configured to grow a plurality of corms. Embodiments may also include a set of sensors 104 attached to each of the one or more chambers to detect a plurality of parameters of the grown plurality of corms and the associated chamber. Embodiments may also include one or more sources of artificial light 106 attached to each of the one or more chambers 102 to produce photosynthetically active radiation in the associated chamber. Embodiments may also include a control unit 112 to analyse the plurality of parameters, and correspondingly supplies nutrient solution to the one or more chambers 102 from a tank 202. Additionally, water remnants may be supplied to the tank 202 to prevent water wastage.

No. of Pages : 24 No. of Claims : 10