

(54) Title of the invention : SYSTEM AND METHOD FOR RECOGNIZING PLANT DISEASES

(51) International classification :G01J0005000000, G06T0007000000, G08B0013196000, G06N0003040000, A61B0003000000

(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. Patiala -----

2)Chitkara Innovation Incubator Foundation
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)SHARMA, Preeti
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

2)SETIA, Devender
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

3)JASROTIA, Anikait
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

4)SINGH, Varinder
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

(57) Abstract :
 Embodiments of the present disclosure may include a system 100 for recognizing one or more plant diseases, the system may include an image capturing unit 102 to acquire one or more images of a plurality of plants in a pre-defined area. Embodiments may also include a set of sensors 104 configured to detect one or more attributes of the plurality of plants. Embodiments may also include a database, for storing a plurality of disease characteristic images corresponding to the one or more plant diseases of the plurality of plants. Embodiments may also include a processor 108 configured to analyse the received one or more images and classify into healthy leaves and diseased leaves. Furthermore, the processor may be configured to determine whether water is required or not, and when the water is required, triggering a driving unit to supply water to the healthy leaves through a sprayer 124.

No. of Pages : 30 No. of Claims : 10