

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141060170 A

(19) INDIA

(22) Date of filing of Application :23/12/2021

(43) Publication Date : 31/12/2021

(54) Title of the invention : AN INDOOR VERTICAL FARMING SYSTEM

(51) International classification :A01G0009240000, E02F0009080000, A01G0009260000, G09F0015000000, A01B0051020000
(86) International Application No :PCT///
Filing Date :01/01/1900
(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)Malla Reddy Engineering College (Autonomous)

Address of Applicant :Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)DR P SARALA

Address of Applicant :Associate Professor Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 -----

2)DR P MARIMUTHU

Address of Applicant :Professor Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 -----

3)DR M KONDALU

Address of Applicant :Professor Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 -----

4)DR RAJA REDDY DUVVURU

Address of Applicant :Associate Professor Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 -----

5)T PRIYATHM RAJU

Address of Applicant :Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 -----

6)SK BAJI BABA

Address of Applicant :Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 -----

7)T AKHIL SAI

Address of Applicant :Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 -----

8)K GOWTHAM

Address of Applicant :Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 -----

9)G PATHANJALI

Address of Applicant :Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 -----

10)D HARSHAVARDAN REDDY

Address of Applicant :Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 -----

11)E RATHNAKAR

Address of Applicant :Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 -----

12)R AKASH

Address of Applicant :Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 -----

(57) Abstract :

7. ABSTRACT A system (11) for indoor vertical farming is disclosed. The said system (11) comprises of a plurality of batteries (1) for providing a power source to the said system (11). A plurality of sensors with wires (2) for detecting the rainfall, a relay arrangement along the roof (5) was also installed inside the said system (11). The system further comprising of a UV ray source bulb arrangement (3) along with said power source (1), a motor (4) for the blower arrangement is installed for providing atmospheric conditions supporting for said farming. The indoor vertical farming system is a simple and highly efficient, could be supportive for domestic purposes in small scale with less power consumption and maintenance to yield higher than conventional farming methods. The Figure associated with Abstract is Fig 1.

No. of Pages : 15 No. of Claims : 10