

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/03/2022

(21) Application No.202211015535 A

(43) Publication Date : 20/05/2022

(54) Title of the invention : A SYSTEM OF IOT ENABLED HISTAMINE CHAMBER FOR ASSESSMENT OF ALLERGIC ACTIVITY IN EXPERIMENTAL ANIMALS

(51) International classification :A01K0001030000, H04L0029080000, A01K0001000000, A61D0003000000, G06Q0050220000

(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)UTTARANCHAL UNIVERSITY

Address of Applicant :ARCADIA GRANT, P.O. CHANDANWARI, PREMNAGAR, DEHRADUN - 248007, UTTARAKHAND, INDIA -----

2)ANURADHA JOSHI

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)MS. PALLAVI GHILDYAL

Address of Applicant :UTTARANCHAL UNIVERSITY, ARCADIA GRANT, P.O. CHANDANWARI, PREMNAGAR, DEHRADUN - 248007, UTTARAKHAND, INDIA -----

2)MR. ALOK BHATT

Address of Applicant :ASST. PROF. HIMGIRI ZEE UNIVERSITY, DEHRADUN, UTTARAKHAND, INDIA -----

3)MS. KIRAN DOBHAL

Address of Applicant :UTTARANCHAL UNIVERSITY, ARCADIA GRANT, P.O. CHANDANWARI, PREMNAGAR, DEHRADUN - 248007, UTTARAKHAND, INDIA -----

4)PROF. (DR) VIKASH JAKHMOLA

Address of Applicant :UTTARANCHAL UNIVERSITY, ARCADIA GRANT, P.O. CHANDANWARI, PREMNAGAR, DEHRADUN - 248007, UTTARAKHAND, INDIA -----

5)RAJESH SINGH

Address of Applicant :UTTARANCHAL UNIVERSITY, ARCADIA GRANT, P.O. CHANDANWARI, PREMNAGAR, DEHRADUN - 248007, UTTARAKHAND, INDIA -----

(57) Abstract :

IOT ENABLED HISTAMINE CHAMBER FOR ASSESSMENT OF ALLERGIC ACTIVITY IN EXPERIMENTAL ANIMALS The histamine chamber is used to determine the allergic activities in experimental animals. Histamine chamber (10) have two compartments, animal activity area (11) and the aerosol (13) attached with computing unit (12). The pressure is exerted to the aerosol (13) with the help of rubber bulb (14) and the pressure will be reflected to the pressure reflector (15). Nozzle (250) is attached with an actuator (200) with is supported by computing unit. The flow motor (450) is attached which will be responsible be maintain the flow rate (300), a pressure input (350) is also attached with computing unit. The battery is attached for power supply (600) throughout the system. The concentration of flow rate will be reflected in OLED display (500). The data through computing unit will be collected to the APP (550) through Wi-fi Modem (400).

No. of Pages : 9 No. of Claims : 7