

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441008747 A

(19) INDIA

(22) Date of filing of Application :09/02/2024

(43) Publication Date : 08/03/2024

(54) Title of the invention : A PORTABLE AND AUTOMATED CHICK EMBRYO CHORIOALLANTOICMEMBRANE (CAM) ASSAY INSTRUMENT

(51) International classification :G01N0033080000, A61B0017000000, A61B0018140000, G01R0031110000, C12M0003000000

(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)JSS Academy of Higher Education & Research (Deemed to be university)**  
 Address of Applicant :Sri Shivarathreeshwara Nagara, Mysuru, Karnataka, India- 570015 Mysore -----  
**Name of Applicant : NA**  
**Address of Applicant : NA**

(72)Name of Inventor :  
**1)Chandan S**  
 Address of Applicant :JSS Academy of Higher Education & Research, Mysuru Mysore -----  
**2)Chandan Dharmashekar**  
 Address of Applicant :JSS Academy of Higher Education & Research, Mysuru Mysore -----  
**3)Prashant M Vishwanath**  
 Address of Applicant :JSS Academy of Higher Education & Research, Mysuru Mysore -----  
**4)Shiva Prasad Kollur**  
 Address of Applicant :Amrita Vishwa Vidyapeetham, Mysuru Branch, Mysuru Mysore -----  
**5)Bhargav Shreevatsa K S**  
 Address of Applicant :JSS Academy of Higher Education & Research, Mysuru Mysore -----  
**6)Anisha Jain**  
 Address of Applicant :JSS Academy of Higher Education & Research, Mysuru Mysore -----  
**7)Bhavana H H**  
 Address of Applicant :JSS Academy of Higher Education & Research, Mysuru Mysore -----  
**8)Balamuralidhara V**  
 Address of Applicant :JSS College of Pharmacy, Mysuru, JSS Academy of Higher Education & Research, Mysuru Mysore -----  
 -----

(57) Abstract :  
 A portable automated Chick Embryo Chorioallantoic Membrane 5 (CAM) assay instrument (202) is provided. The portable automated CAM assay instrument (202) includes an egg incubator (214) for regulating humidity and temperature control features. The portable automated CAM assay instrument (202) further includes one or more automated injectors (217) for providing precision in delivering substances to the CAM to 10 ensure targeted areas are reached with pinpoint accuracy. The portable automated CAM assay instrument (202) further includes a rotary angle candling (216) for rotating the automated injectors by 360 degrees (360°) for thorough coverage of the CAM assay instrument (202) ensuring no area is missed during injections. The portable automated CAM instrument (202) further includes the one or more automated injectors (217) 15 which are designed to precisely and specifically target blood vessels within the CAM. The portable automated CAM assay instrument (202) further includes one or more egg trays (212) for storing and protecting eggs.

No. of Pages : 32 No. of Claims : 7