

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202511068987 A

(19) INDIA

(22) Date of filing of Application :19/07/2025

(43) Publication Date : 08/08/2025

(54) Title of the invention : A DIGITAL GEOMETRY COMPASS WITH ANGULAR AND CURVATURE MEASUREMENT OUTPUT

(51) International classification	:G01C17/38, B43L13/00
(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)NOIDA INSTITUTE OF ENGINEERING & TECHNOLOGY
 Address of Applicant :19, Knowledge Park-II, Institutional Area, Greater Noida – 201306, Uttar Pradesh, India. -----
Name of Applicant : NA
Address of Applicant : NA
 (72)**Name of Inventor :**
1)AJAY KUMAR
 Address of Applicant :Department of Computer Science, Noida Institute of Engineering & Technology, Greater Noida. Greater Noida -----

(57) Abstract :

The present invention relates to a digital geometry compass comprising a center arm (1), drawing arm (2), angular sensor (3), processor (5), OLED screen (6), Bluetooth module (7), and power unit (8). It enables real-time measurement and display of angular displacement and curvature while drawing. The device supports wireless data transfer, enhancing educational and professional drafting tasks. The integrated system provides a tactile-digital interface, improving precision and mathematical comprehension.

No. of Pages : 15 No. of Claims : 5