

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202511061221 A

(19) INDIA

(22) Date of filing of Application :26/06/2025

(43) Publication Date : 11/07/2025

(54) Title of the invention : AN IMPROVED TOUCHSCREEN DISPLAY PANEL WITH GLARE-REDUCTION AND FINGERPRINT ISOLATION

(51) International classification :G06F0003041000, G06F0003044000, G02B0005020000, G06V0040130000, G06F0003048800

(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)VIVEK RANJAN

Address of Applicant :Department of Computer Science, Noida Institute of Engineering & Technology, Greater Noida. Greater Noida -----

(57) Abstract :

An improved touchscreen display panel (12) is disclosed, comprising a cover layer (14), a micro-structured anti-glare layer (16), a nano-engineered oleophobic coating (18), and a touch-sensitive layer (20). The invention ensures high outdoor visibility and fingerprint isolation without compromising touch response or clarity. Integrated lamination enhances durability and maintains high transmittance. The touchscreen is suitable for smartphones, automotive, industrial, and public devices requiring clean, glare-free, responsive surfaces over extended use.

No. of Pages : 14 No. of Claims : 5