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| (51) International classification             | :B24B0013000000,<br>A61B0001310000,<br>C08J0005000000,<br>H04N0005770000,<br>H04N0023610000 | (71) <b>Name of Applicant :</b><br><b>1)Chitkara University</b><br>Address of Applicant :Chandigarh-Patiala National Highway, Village Jhansla,<br>Rajpura, Punjab - 140401, India. Rajpura Punjab India<br><b>2)Chitkara Innovation Incubator Foundation</b> |
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(57) Abstract :

A corneal layer evaluation system, comprising a vertically oriented high definition organic light emitting diode (HD-OLED) based touch-enabled display 102 configured for presenting the diagnosed report of a patient, a horizontally oriented console 103 that includes a detachable high resolution lens 104 in conjunction with optical sensors, the lens 104 being supported with a rotatable adjustment arrangement to optimize its focal resolution, a plurality of tactile buttons 105 is disposed on the console 103 to manipulate the lens 104, thereby enabling capture of detailed corneal images and generation of the captured image on the HD-OLED display 102, a tapered focusing pen 106 is provided to guide the patient's eyes in a desired direction, a universal serial bus (USB) port 107 for report transfer and a small sterile pure saline unit 108 for ocular surface irrigation and soothing application.

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