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(57) Abstract :

A handheld retinoscopy device, comprises of a vertical hollow member 101 and a light source 102 that is integrated at the bottom of the member 101, a rotatable tray 103 of multiple lenses 104 is adapted in middle portion of the member 101 that eliminates the need of varying the distance of the patient from the device for determining corrective refractive index of the eyes, an inclined reflector 105 is integrated at the top periphery of the member 101, an AI-powered camera 106 observes and captures minute movement and direction of the movement of the patient's eye, a display 107 shows a magnified view of the reflex movement of the eye, a laser 108 determines the distance that a patient needs to maintain from the vertical hollow member 101 for conducting retinoscopy, an angularly inclined fixation stick 109 includes three fixation points where patient need to look during eye examination.

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