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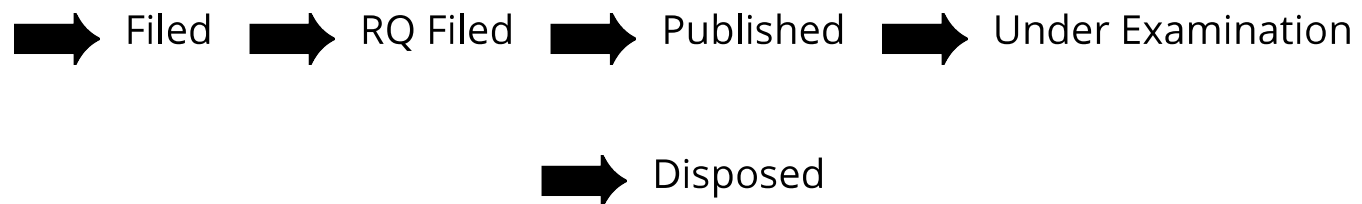
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TITLE OF INVENTION	AI BASED BINOCULAR WEARABLE POTENTIAL ACUITY TESTER
FIELD OF INVENTION	PHYSICS
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<div>(51) International classification :G02B0027010000, G02B0023180000, A61B0003120000, G02B0007120000, A61P0027120000</div> <div>(86) International Application No :NA</div> <div>(86) International Filing Date :NA</div> <div>(87) International Publication No : NA</div> <div>(61) Patent of Addition to Application Number :NA</div> <div>(61) Patent of Addition to Filing Date :NA</div> <div>(62) Divisional to Application Number :NA</div> <div>(62) Divisional to Filing Date :NA</div>		<div>(71)Name of Applicant : 1)AVINASHILINGAM INSTITUTE FOR HOME SCIENCE AND HIGHER EDUCATION FOR WOMEN Address of Applicant :BHARATHI PARK ROAD TATABAD, NEAR FOREST COLLEGE CAMPUS, SAIBABA COLONY, COIMBATORE COIMBATORE TAMIL NADU INDIA 641043 Coimbatore ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)MS. SWARNALAKSHMI MAHALAKSHMI RAMANATHAN Address of Applicant :AVINASHILINGAM INSTITUTE FOR HOME SCIENCE AND HIGHER EDUCATION FOR WOMEN, BHARATHI PARK ROAD TATABAD, NEAR FOREST COLLEGE CAMPUS, SAIBABA COLONY, COIMBATORE COIMBATORE TAMIL NADU INDIA 641043 Coimbatore ----- 2)MS. NANDHINI ELANGO Address of Applicant :AVINASHILINGAM INSTITUTE FOR HOME SCIENCE AND HIGHER EDUCATION FOR WOMEN, BHARATHI PARK ROAD TATABAD, NEAR FOREST COLLEGE CAMPUS, SAIBABA COLONY, COIMBATORE COIMBATORE TAMIL NADU INDIA 641043 Coimbatore ----- 3)DR. KRISHNAVENI MARIMUTHU Address of Applicant :AVINASHILINGAM INSTITUTE FOR HOME SCIENCE AND HIGHER EDUCATION FOR WOMEN, BHARATHI PARK ROAD TATABAD, NEAR FOREST COLLEGE CAMPUS, SAIBABA COLONY, COIMBATORE COIMBATORE TAMIL NADU INDIA 641043 Coimbatore ----- 4)DR. SUBASHINI PARTHASARATHY Address of Applicant :AVINASHILINGAM INSTITUTE FOR HOME SCIENCE AND HIGHER EDUCATION FOR WOMEN, BHARATHI PARK ROAD TATABAD, NEAR FOREST COLLEGE CAMPUS, SAIBABA COLONY, COIMBATORE COIMBATORE TAMIL NADU INDIA 641043 Coimbatore -----</div>
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(57) Abstract :

TITLE: AI BASED BINOCULAR WEARABLE POTENTIAL ACUITY TESTER APPLICANT: AVINASHILINGAM INSTITUTE FOR HOME SCIENCE AND HIGHER EDUCATION FOR WOMEN ABSTRACT The present invention discloses a binocular head-mounted potential acuity tester device [1] to evaluate visual acuity from mild to severe opacities binocularly thereby achieving early detection of cataracts. The device [1] of the present invention comprises of a cuboidal structure viewing box [2] coupled to a head band [3] and integrated to an output device [4] through wireless communication, characterized in that • the cuboidal structure viewing box[2] comprising of two cameras[5] housed inside the cuboidal structure viewing box[2] with two view finders[6], two LED lights strips[7], an illumination control knob[8], an interpupillary distance adjustment knob[9], a larger diopter scale[10]; • the output device[4] inbuilt with algorithm to process the captured images by image processing employing deep learning model; • an ON/OFF switch[11] to activate the LED light strips[7] and the cameras[5]; • a power source[12] to supply power.

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