

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202541104724 A

(19) INDIA

(22) Date of filing of Application :30/10/2025

(43) Publication Date : 28/11/2025

(54) Title of the invention : Smart Automated Glass System for Precision Light Control in Agricultural Applications

(51) International classification	:F22D 5/26, A01G 9/14, G05B 24/00, H03K 19/17748, H04W 12/33	(71)Name of Applicant : 1)New Horizon College of Engineering, Address of Applicant :New Horizon Knowledge Park, Marathahalli, outer ring road, Bengaluru – 560103 Bangalore Karnataka India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Uma Reddy N.V.
(32) Priority Date	:NA	2)Revathi V
(33) Name of priority country	:NA	3)Arangan Shankar
(86) International Application No	:	4)Deepak G K
Filing Date	:01/01/1900	
(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	

(57) Abstract :

A design of Smart Automated Glass System (100) consists of an innovative solution mimicking the greenhouse structure, configured to automatically control the physical parameters of a plant's environment to meet the ideal conditions. The system is designed to vary the glass opacity to vary the sunlight entering inside it by leveraging the Polymer Dispersed Liquid Crystal (PDLC) glass (401) panel. Using the data collected from the advanced sensors (303, 304 & 305), the system integrates irrigation (403) and ventilation (402) systems that cooperate with the micro controller unit (302).

No. of Pages : 18 No. of Claims : 6

(54) Title of the invention : Message and Voice Integrated Offline Emergency SOS Alert System

(51) International classification	:H04M 1/72516, E01F 9/535, H04W 68/00, G10L 25/87, G10L 25/78	(71)Name of Applicant : 1)New Horizon College of Engineering, Address of Applicant :New Horizon Knowledge Park Outer Ring Road, Near Marathalli Bellandur (P), Bangalore-560103 Bangalore Karnataka India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Dr. Divya K V
(33) Name of priority country	:NA	2)Dr. R J Anadhi
(86) International Application No	:	3)Mr.Chandresh D
Filing Date	:01/01/1900	4)Mr. Darshan D Madiwalar
(87) International Publication No	: NA	5)Mr. DineshP
(61) Patent of Addition to Application Number	:NA	6)Ms. Shreya R Varur
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An offline emergency alert system is disclosed, integrating an SOS alert feature, voice transcription, phone lost tracking, and fall detection into a single mobile device platform. Upon a single user activation, the system can simultaneously and offline trigger a siren, determine GPS location, record audio, transcribe the audio to text, and transmit notifications including the location and transcribed message to pre-defined contacts, enhancing rapid emergency response without internet connectivity. Additionally, the system provides offline phone lost tracking by receiving SMS commands from any mobile device and, in response, securely transmitting the mobile device's current location solely to user-selected, pre-defined contacts, maintaining user privacy and security. The fall detection feature automatically activates the emergency protocol in the event of a detected fall, ensuring timely alerts even when the user is incapacitated. The invention offers comprehensive, offline emergency assistance and device recovery, addressing safety and security needs in areas with limited network access.

No. of Pages : 17 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202541104728 A

(19) INDIA

(22) Date of filing of Application :30/10/2025

(43) Publication Date : 28/11/2025

(54) Title of the invention : AI-Assisted System for Non-Invasive Diagnosis of Dental Disorders

(51) International classification	:A61C 1/02, A61C 1/00, A61C 3/00, A61C 13/00, A61C 19/00	(71)Name of Applicant : 1)New Horizon College of Engineering, Address of Applicant :New Horizon Park, Marathahalli outer ring road, Bengaluru-560103 Bangalore Karnataka India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)K.S. Shashikala, 2)S. Umamaheswaran 3)Kaviya R,
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:	
Filing Date	:01/01/1900	
(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	

(57) Abstract :

A deep learning-based dental disease detection system (105) for determining oral illnesses like gingivitis, dental caries, and periodontitis from panoramic dental radiographs is the primary objective of the current invention, which is associated with the field of computer-assisted medical diagnostics. An image preprocessing module (101), deep learning classification model (102), a probability prediction and decision logic unit (103), a diagnosis output module (104) constitute the system. By enabling automated, precise, and real-time dental disease detection, the invention minimizes the necessity for manual diagnosis and fosters early treatment planning in dental clinics.

No. of Pages : 14 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202541104730 A

(19) INDIA

(22) Date of filing of Application :30/10/2025

(43) Publication Date : 28/11/2025

(54) Title of the invention : A Priority-Aware and Order-Sensitive MQTT Messaging System with Emergency Handling

(51) International classification	:F24S 25/00, F24S 30/00, H02S 20/00, B65B 9/067, B65B 9/087	(71) Name of Applicant : 1)New Horizon College of Engineering, Address of Applicant :New Horizon Knowledge Park, Marathalli, outer ring road, Bengaluru-560103. Bangalore Karnataka India (72) Name of Inventor : 1)Akshatha P S 2)Sonia Maria D'Souza 3)Sushma P 4)Swathika R 5)Dilip Kumar S M
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:	
Filing Date	:01/01/1900	
(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	

(57) Abstract :

The invention discloses an enhanced MQTT-based system that classifies messages into emergency, sequential, or normal types using an intelligent classifier module. Based on classification, messages are routed to dedicated queues for prioritized processing. Emergency messages are dispatched immediately, while sequential messages undergo order and sequence number validation before delivery. A database component ensures that missed or out-of-order messages can be retrieved upon subscriber request. This architecture enhances reliability, responsiveness, and message integrity in distributed IoT environments.

No. of Pages : 14 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202541104778 A

(19) INDIA

(22) Date of filing of Application :30/10/2025

(43) Publication Date : 28/11/2025

(54) Title of the invention : Smart Knee Diagnostic System for Real-Time Joint Health Monitoring

(51) International classification	:H04N 23/13, H10K 59/65, A43B 3/46, H04N 25/533, G07C 9/26	(71)Name of Applicant : 1)New Horizon College Address of Applicant :Outer Ring Road, East of NGEF layout Kasturi Nagar, Bangalore 56004 Bangalore Karnataka India 2)New Horizon College of Engineering
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Ms. Helaria Maria
(32) Priority Date	:NA	2)Sania N
(33) Name of priority country	:NA	3)Shalu Kumari
(86) International Application No	:	
Filing Date	:01/01/1900	
(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	

(57) Abstract :

The Smart Knee Band is a wearable sensor system designed for real-time joint health monitoring. It integrates multiple sensors, including a flex sensor (201) to measure the degree of knee bending, an EMG sensor (203) to detect the electrical signals produced by muscle activity, and a pressure sensor (204) to record the pressure on knee during movement. A smartphone application shows real-time data, while Raspberry Pi (301) processes and transmits information through a Bluetooth module (304) for real-time monitoring and feedback. This innovative system ensures early detection of abnormalities, providing essential insights to assist in early diagnosis, prevention, and effective management of knee-related conditions.

No. of Pages : 12 No. of Claims : 6

(54) Title of the invention : Reconfigurable Antenna Array System for Dynamic 5G Beam Steering

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number Filing Date</p> <p>(62) Divisional to Application Number Filing Date</p>	<p>:H04B0007060000, H04W0016140000, H04W0016280000, H04W0016180000, H04W0016220000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:</p> <p>:01/01/1900</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p>1)Malla Reddy (MR) Deemed to be University Address of Applicant :Malla Reddy (MR) Deemed to be University, Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State – 500100, phone: 9348161303, ipr@mrec.ac.in Medchal-Malkajgiri Telangana India</p> <p>2)Malla Reddy University</p> <p>3)Malla Reddy Vishwavidyapeeth Deemed To Be University</p> <p>4)Malla Reddy Engineering College</p> <p>5)Malla Reddy College Of Engineering For Women</p> <p>6)N.Manikanda Devarajan</p> <p>7)Dr.Rachapudi Prabhakar</p> <p>8)Dr. Vinay Simha Reddy Tappeta</p> <p>9)Mr. PITTA SANKARA RAO</p> <p>10)Mr. B. Vamsi Krishna</p> <p>(72)Name of Inventor :</p> <p>1)N.Manikanda Devarajan</p> <p>2)Dr.Rachapudi Prabhakar</p> <p>3)Dr. Vinay Simha Reddy Tappeta</p> <p>4)Mr. PITTA SANKARA RAO</p> <p>5)Mr. B. Vamsi Krishna</p> <p>6)Dr. C. Silpa</p> <p>7)Dr. T. Srinivas Reddy</p> <p>8)Dr.A. Pradeep Kumar</p>
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(57) Abstract :

ABSTRACT So far, in 5G beyond the millimeter wave applications, new dynamic reconfigurable antenna array architecture is discussed in the invention to support high capacity, low latency, and interference resilient wireless communication through dynamic beam steering. The existing fixed-beam antenna arrays are lessFlexible antenna arrays under dense environment which leads to poor spectrum sharing and signal attenuation. The present system will integrate the electrically tunable metamaterials, phase reconfigurable array elements, and an intelligent control algorithm which can switch between beam directions while satisfying the user mobility, network load, and environmental needs in real time. Furthermore, radiation patterns are switchable electronically without the use of mechanical refractive components changes, and thus the implementation of the reconfigurable radiation pattern provides at least a reduction of latency of the redirection of beams. The system employs the optimization in the excitation of elements, which are dynamically optimized with subsystem learning implemented in order to enhance the signal strength and decrease interference levels. Light Weight, Energy Efficient And Scalable Architecture Can Be Deployed In Small Cells, Base Stations And Vehicular 5G Communication Nodes. The invention is hence the next-generation-ready beamforming solution, which enhances the coverage, reliability and spectral efficiency of the next generation wireless networks.

No. of Pages : 10 No. of Claims : 8

(54) Title of the invention : ECHOBAND: WEARABLE COMMUNICATION DEVICE FOR DEAF-BLIND USERS VIA HIERARCHICAL HAPTIC ENCODING AND EDGE AI

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number Filing Date</p> <p>(62) Divisional to Application Number Filing Date</p>	<p>:D05B 87/04, A01K 21/00, A61M 60/117, B65G 7/00, B23C 1/16</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:</p> <p>:01/01/1900</p> <p>: NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p>1)VASAVI COLLEGE OF ENGINEERING Address of Applicant :Vasavi College of Engineering, Ibrahimbagh, Hyderabad-500031, Telangana, India. Hyderabad Telangana India</p> <p>(72)Name of Inventor :</p> <p>1)Dr.M.SUNITHA 2)Dr.T.ADILAKSHMI 3)Dr.S.KOMAL KAUR 4)T.NISHITHA</p>
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(57) Abstract :

EchoBand is an AI-powered, wrist-worn assistive device designed to empower individuals with dual sensory impairments—specifically those who are both deaf and blind. Traditional tools like Braille displays or tactile interpreters are either expensive, non-portable, or reliant on residual vision or hearing. EchoBand addresses this gap by translating spoken language into structured vibration patterns using a novel Hierarchical Haptic Encoding System (HHES). The device captures ambient speech via a MEMS microphone and processes it using lightweight, edge-deployed ASR models (Whisper Tiny, Vosk) optimized for Indian languages. NLP modules extract key phrases, which are then encoded into tactile messages using HHES. This system allows over 200 unique vibration patterns based on motor location, intensity, duration, and rhythm. EchoBand's core innovations include: • HHES: A multi-layered tactile language enabling semantic categorization and phrase-level encoding. • Edge AI: Offline, multilingual speech recognition on ESP32-S3 or Raspberry Pi Zero 2 W. • Neuroadaptive Feedback: Personalized vibration mapping based on user recognition performance, tracked via a caregiver app. The modular hardware design includes 3–5 vibro motors, a rechargeable battery, and OTA firmware updates. The companion app supports caregiver monitoring, emergency alerts, and pattern customization. The 36-month roadmap includes: • Ergonomic design and PCB integration • ASR/NLP optimization for Indian languages • HHES development and neuroadaptive calibration • Field trials with 30 users via NGO partnerships • BIS/ISO certification and productization EchoBand aligns with SDG 3 and SDG 10 by promoting independent communication, emotional well-being, and equitable access to information. With a projected unit cost of ₹3,000–₹5,000 and a total budget of ₹18 lakhs, it offers a scalable, inclusive solution for underserved communities.

No. of Pages : 46 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202541104790 A

(19) INDIA

(22) Date of filing of Application :30/10/2025

(43) Publication Date : 28/11/2025

(54) Title of the invention : DESIGN OF BLUETOOTH BASED REMOTE VOLTAGE MONITORING FOR OFF-GRID BATTERY

(51) International classification	:H02J13/00, H02J3/38, G01R19/00, G08C17/02, H04W4/80	(71) Name of Applicant : 1)New Horizon College of Engineering Address of Applicant :New Horizon Knowledge Park Outer Ring Road, Near Marathalli Bellandur(P), Bangalore-560103 Bangalore Karnataka India
(31) Priority Document No	:NA	(72) Name of Inventor : 1)Vinoth Kumar K
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:	
Filing Date	:01/01/1900	
(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	

(57) Abstract :

This Invention shows that expected and the desired output is obtained as the accurate voltage reading is projected on the Blue Serial Smartphone Application. The battery backup also works nicely with the system. The system can remotely transmit the signals and show the values as long as the smartphone is within the radius of 10 centimetres, that is the maximum range of the HC-05 Bluetooth Sensor Module. However, the advanced scaled-up Bluetooth Sensors can transmit the signals to a distance of more than 100 meters. The voltage reading is quite accurate although there is a small error of ± 0.2 Volts which is fine as the acceptable error for voltmeters is ± 0.6 Volts. Moreover, this error is very rarely observed in the Voltage Monitoring Window. This system can be custom fixed to any off-grid power system, either solar or wind or micro- hydro. The procedure just involves fixing the terminals of the instrumentation terminals of the Voltage Sensor Modules to the off-grid batteries and the input to the DC-to-DC Step Down Converter can be connected to the output of the charge controller of the off-grid system.

No. of Pages : 10 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202541104882 A

(19) INDIA

(22) Date of filing of Application :30/10/2025

(43) Publication Date : 28/11/2025

(54) Title of the invention : SYSTEM AND METHOD FOR NEAR REAL-TIME PROCESSING AND SERVING OF GEOSPATIAL RASTER DATA

(51) International classification	:G06F16/20, G06F16/29, H04L67/568	(71)Name of Applicant : 1)INDIAN SPACE RESEARCH ORGANIZATION Address of Applicant :ISRO Headquarters, Department of Space, Antariksh Bhavan, New BEL Road, Bangalore 560094, India Bangalore Karnataka India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)SHASHIKANT A SHARMA
(33) Name of priority country	:NA	2)PANKAJ BODANI
(86) International Application No	:	3)NITIN MISHRA
Filing Date	:01/01/1900	4)ARPIT AGARWAL
(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	

(57) Abstract :

ABSTRACT SYSTEM AND METHOD FOR NEAR REAL-TIME PROCESSING AND SERVING OF GEOSPATIAL RASTER DATA Systems and methods for near real-time processing and serving of geospatial raster data are provided herein. A system for serving geospatial raster data includes a smart reverse proxy (101) that selects the server node (104) with minimum latency for each data service request (102) based on parameters such as spatial extent, timeframe, dataset identifiers, data size, and compute locality. Each server node includes a service module (105) providing OGC-compliant map and spatio-temporal services, a repository of on-the-fly (OTF) processing algorithms (106), a processing module (107) for executing said algorithms, a data access module (108) for low-latency retrieval, and a storage manager (109) for replication and locality-based access. Locally attached high-speed storage devices (110) in a JBOD configuration store raster datasets. A dataset ingestion module (111) processes input datasets (112), generates optimized data structures and raster overviews, and updates metadata within a data catalogue (113), which manages dataset location, size, and server association for efficient access and management. Figure:1

No. of Pages : 25 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202541104886 A

(19) INDIA

(22) Date of filing of Application :30/10/2025

(43) Publication Date : 28/11/2025

(54) Title of the invention : Multi-functional Jewellery Measurement and Weight Detection Device

(51) International classification	:A44C 19/00, H03M 11/14, H03M 11/16, H03M 11/18, H03M 11/08	(71)Name of Applicant : 1)NEW HORIZON COLLEGE Address of Applicant :New Horizon Knowledge Park, Outer Ring Road, Near Marathalli, Bellandur(P),Bangalore-560103, Karnataka Bangalore Karnataka India 2)NEW HORIZON COLLEGE OF ENGINEERING
(31) Priority Document No	:NA	(72)Name of Inventor : 1)M.K. Divya 2)Chandresh M
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:	
Filing Date	:01/01/1900	
(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	

(57) Abstract :

The present invention relates to a portable multi-functional jewellery measurement and weight detection device (100) designed to accurately determine ring, bangle, and ear-piercing dimensions, and to estimate the safe weight capacity of an ear lobe. The device (100) comprises a display module (101) for presenting measurement results, an ear lobe measurement module (102) for positioning jewellery items on an earlobe, a sensor module (103) configured to provide sub-millimetre piercing diameter measurements and detect nerve sensitivity for weight estimation, and a hinge mechanism (104) that enables stable clamping similar to a fingertip oximeter. The integration of dimensional sensing and nerve detection in the sensor module (103) allows the device to output both accurate jewellery sizing and safe weight capacity on the display module (101). The invention provides an ergonomic, hygienic, and consumer- friendly solution for jewellers and individuals requiring precise and safe jewellery fitting.

No. of Pages : 12 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202541107120 A

(19) INDIA

(22) Date of filing of Application :05/11/2025

(43) Publication Date : 28/11/2025

(54) Title of the invention : FREQUENCY LEVEL TRACKER FOR CARNATIC MUSIC INSTRUMENTS

(51) International classification	:G01F 1/663, G01H 13/00, G01R 23/00, G06F 9/28, G01P 3/48	(71)Name of Applicant : 1)New Horizon College Address of Applicant :New Horizon Knowledge Park, Outer Ring Road, Near Marathalli, Bellandur(P),Bangalore-560103. Bangalore Karnataka India 2)New Horizon College of Engineering, (72)Name of Inventor : 1)Poornima H K 2)Srinath. M. K 3)K T Pravin 4)Veda Ramnath
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:	
Filing Date	:01/01/1900	
(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	

(57) Abstract :

A Frequency Level Tracker (10), consists of (i)A microphone (100) configured to capture the sound from (ii)an Indian classical musical instrument,(iii)A signal conditioning circuit (200) for cleaning and amplifying the captured sound,(iv)A microcontroller (300) adapted to measure the frequency of the processed sound,(v)A display unit (500) operatively connected to the microcontroller (300) for showing the detected frequency and its deviation from the reference Shruthi.

No. of Pages : 13 No. of Claims : 7

(54) Title of the invention : AUTOMATIC FILTER CHANGING MECHANISM FOR AIR QUALITY AND CLIMATE CONTROL DEVICES

(51) International classification	:E06B 1/26, F41A 3/66, A47G 1/12, B32B 23/00, B62D 33/10	(71) Name of Applicant : 1)New Horizon College of Engineering Address of Applicant :New horizon college Knowledge Park Outer Ring Road, Marathalli, Bangalore-560103 Bangalore Karnataka India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Mohan kumar G R
(33) Name of priority country	:NA	2)Chetan Pushparaj
(86) International Application No	:	3)Smitha B S
Filing Date	:01/01/1900	4)Jayasheel kumar K A
(87) International Publication No	: NA	5)Sujin Jose A
(61) Patent of Addition to Application Number	:NA	6)Rakesh.C
Filing Date	:NA	7)Manjunatha
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to an Automatic filter changing mechanism for air quality and climate control devices (100) designed to improve air filtration efficiency, extend filter life, and maintain peak system performance. The mechanism comprises a plastic frame (101) housing two filters, Filter-1 and Filter-2, with a slider (103) positioned between them. A 12V motor (102), connected to a screw mechanism, alternately moves the slider to compress one filter while expanding the other, ensuring continuous operation with only one filter active at a time. Sponge lining (104) provides air-tight sealing and vibration reduction, while limit switches (105) positioned at the ends of the slider path prevent over-travel by cutting off motor power automatically. A filter actuation control module with a built-in 2000 hours timer enables automatic switching between filters, while a manual control switch allows user-initiated changes in case of severe odour or allergic conditions. The filters incorporate locking mechanisms (106) for easy replacement during scheduled maintenance. This arrangement ensures uninterrupted air filtration, doubles filter life, and reduces inspection frequency, thereby enhancing the overall efficiency and reliability of air quality and climate control devices.

No. of Pages : 16 No. of Claims : 10

(54) Title of the invention : AUDIO ENABLED PEN STAND

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No</p> <p> Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number</p> <p> Filing Date</p> <p>(62) Divisional to Application Number</p> <p> Filing Date</p>	<p>:B60L 58/22, G03G 13/05, F42B 21/00, C10B 31/02, C10B 31/06</p> <p>(71)Name of Applicant :</p> <p>1)New Horizon College of Engineering Address of Applicant :New horizon college Knowledge Park Outer Ring Road, Marathalli, Bangalore-560103. Bangalore Karnataka India</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Dhanalakshmi R V,</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:</p> <p>:01/01/1900</p> <p>: NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>
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(57) Abstract :

The present invention relates to a portable electronic device designed for children that integrates a microcontroller-based system to provide audio storytelling and music playback functionalities. The device comprises a DC supply input with a C-type charging pin connected to a charging module and a rechargeable lithium battery for continuous operation. An ON/OFF switch enables power control of the system. A microcontroller is operatively coupled with a real-time clock module to maintain accurate date and time, which are displayed on an LED display. The microcontroller further interfaces with an SD card storing preloaded stories and music for kids, and controls audio output via a volume control and amplifier circuit connected to a speaker. The architecture allows convenient charging, low power consumption, real-time date/time display, and user-controlled volume adjustment. The invention provides an engaging, educational, and portable entertainment device for children.

No. of Pages : 15 No. of Claims : 2

(54) Title of the invention : Printer Integrated Laptop

(51) International classification	:B01D 25/02, B62D 65/04, B22F 12/84, H04N 19/46, G06F 15/78	(71)Name of Applicant : 1)New Horizon College Address of Applicant :New Horizon Knowledge Park, Outer Ring Road, Near Marathalli, Bellandur(P), Bangalore-560103 Bangalore Karnataka India 2)New Horizon College of Engineering
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Sowmya H.L
(32) Priority Date	:NA	2)Thanvitha.P.Gowda
(33) Name of priority country	:NA	3)Dr. Nagabhushana N
(86) International Application No	:	4)Chandresh M
Filing Date	:01/01/1900	
(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	

(57) Abstract :

The present invention relates to a laptop computer with an integrated printing mechanism, enabling simultaneous computing and printing operations within a single portable device. The laptop comprises a display monitor, keyboard, central processing unit, and a modular printing module embedded within the laptop base, positioned between the motherboard and the keyboard. The printing module includes a sheet tray, roller-based paper feed system, a print head mechanism (such as inkjet, solid ink, or thermal), and a side-mounted output slot for delivering printed sheets. Printing status and operational feedback are displayed directly on the laptop monitor through built-in software or a custom application with a user interface. The invention eliminates the need for external printers, offering a compact, power-efficient, and streamlined solution that enhances portability and convenience for mobile users requiring immediate and on-demand printing capabilities.

No. of Pages : 13 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202541107129 A

(19) INDIA

(22) Date of filing of Application :05/11/2025

(43) Publication Date : 28/11/2025

(54) Title of the invention : TriSmart –Multifunctional Stationery Tool

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(57) Abstract :

The present invention, TriSmart, relates to a multifunctional stationery device that integrates a scale, eraser, and pencil sharpener into a single compact unit. The device comprises an eraser (102) protected by an eraser cap (101) and operated by an eraser switch (103) for retractability and replacement. A precision sharpener (106), controlled by a sharpener switch (104), is positioned at one end of the body, optionally including a detachable shavings container. Along the elongated body, a scale (107) is embedded, accessible through a scale switch (105), and marked with metric and imperial units for accurate measurements. The body is ergonomically designed, manufactured from eco-friendly materials, and may include a magnetic base for attachment to metallic surfaces. By combining three essential stationery tools into one device, the invention reduces clutter, enhances portability, and improves efficiency, making it especially suitable for students, artists, and professionals.

No. of Pages : 10 No. of Claims : 5

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(54) Title of the invention : OCTAGONAL MULTI-CARTRIDGE LIPSTICK ASSEMBLY FOR MULTI-COLOR COSMETIC APPLICATION

(51) International classification	:H04N 21/482, H04W 72/02, H04N 21/274, G11C 8/00, G06T 15/83	(71) Name of Applicant : 1)NEW HORIZON COLLEGE, Address of Applicant :New Horizon Knowledge Park Outer Ring Road, Near Marathalli Bellandur (P), Bangalore-560103 Bangalore Karnataka India 2)NEW HORIZON COLLEGE OF ENGINEERING, (72) Name of Inventor : 1)Ms. Thanvi Kuttaiah I. 2)Mr. Poornachandra Tejaswi
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(32) Priority Date	:NA	
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(57) Abstract :

The invention discloses a lipstick assembly featuring an octagonal housing (100) designed to hold multiple lipstick cartridges (101) within a single compact unit. Each facet of the housing accommodates one cartridge, enabling users to store and select various shades conveniently. The octagonal geometry provides anti-rolling stability (103), improved ergonomic grip (103), and a distinctive appearance compared to traditional cylindrical lipsticks. Each cartridge (101) includes an extension and retraction mechanism, such as a push-slide knob (102), for controlled shade selection and precise application. The housing (100) is detachable, allowing easy cartridge replacement or refilling when depleted. Materials for construction may include plastic, metal, or biodegradable composites, with refillable cartridges (101) offered for sustainability. By integrating multi-shade portability, stability, durability, and unique aesthetics, this invention delivers a consumer-friendly cosmetic solution that merges functional convenience with ornamental innovation, redefining the design and usability of conventional lipsticks.

No. of Pages : 11 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

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(19) INDIA

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(54) Title of the invention : MULTI PURPOSE LIGHT EMITTING TROPHY IN DECORATIVE FLOWER VASE DESIGN

(51) International classification	:G01R 31/367, F21Y 101/00, G21H 5/00, A43B 3/40, B60L 53/53	(71)Name of Applicant : 1)NEW HORIZON COLLEGE Address of Applicant :New Horizon Knowledge Park Outer Ring Road, Near Marathahalli Bellandur(P), Bangalore-560103, Karnataka Bangalore Karnataka India 2)NEW HORIZON COLLEGE OF ENGINEERING
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(57) Abstract :

The present invention gives these trophies a different look, i.e., that of a flower vase. Names and events are engraved in LED mode; the wordings reflect only when it is connected to a battery or power source. Otherwise, it looks like a beautiful flower vase and in night the same vase takes the place of a night lamp. Instead of dumping excess of the trophies in the dump yard, probably this artistic trophy is finding a place in the living room, which is illuminating at night when it is switched on.

No. of Pages : 11 No. of Claims : 7