

Boletín VT

REDES DE SENSORES INALÁMBRICAS

54

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Vigilancia Tecnológica



Desde su aparición, los campos de aplicación de las redes de sensores inalámbricos se han ido ampliando de forma constante. La posibilidad de crear extensas plataformas de gestión integrada para la monitorización, captura de datos, y control remoto y en tiempo real mediante estas redes sensoriales, ha proporcionado una poderosa herramienta para el desarrollo de aplicaciones y servicios en sectores económicos tan diversos como el agrícola, el industrial o el de la administración pública.

El presente boletín, elaborado por la Unidad de Información Tecnológica de la Oficina Española de Patentes y Marcas (OEPM), pretende revisar la evolución de la innovación, en el marco de las patentes de las tecnologías TIC en relación con algunas de las aplicaciones más relevantes abordadas por las redes de sensores inalámbricos, tales como: su uso en

entornos agrícolas (gestión de cultivos, plagas, invernaderos, regadíos), su uso en entornos urbanos o públicos (seguridad ciudadana, infraestructuras, gestión de información medioambiental, polución, residuos) o su uso para la detección y gestión de incendios.

De este modo, el boletín, de periodicidad trimestral, recogerá las publicaciones más recientes de solicitudes internacionales de patente (solicitudes PCT) publicadas en el trimestre inmediatamente anterior a su elaboración. Se ha restringido el ámbito de este boletín a solicitudes PCT por considerarse que al ser estas solicitudes con las que las empresas pretenden proteger sus invenciones en distintos países, se corresponden con invenciones de una cierta relevancia tecnológica.

CONTENIDO:

- Redes de sensores para entornos agrícolas
- Redes de sensores para entornos urbanos o públicos
- Redes de sensores para detectar incendios
- Otras referencias

NIPO: 116-19-015-9

Solicitudes de Patente Publicadas

Los datos que aparecen en la tabla corresponden a una selección de las solicitudes de patentes PCT publicadas durante el trimestre analizado. Se puede acceder al documento completo haciendo clic sobre el mismo.

REDES DE SENSORES PARA ENTORNOS AGRÍCOLAS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2023094226 A1	GEA FARM TECHNOLOGIES GMBH	Robotic driver for agricultural jobs
WO 2023063866 A1	DELAVAL HOLDING AB	Milking system
WO 2023086957 A1	RUNNING TIDE TECH INC	Systems and methods for monitoring ocean-based carbon dioxide removal devices and accumulation of a target product
WO 2023062317 A1	IC GREEN	Device and method for mechanical maintenance of a lawn to limit the growth of weeds
WO 2023094139 A1	NEUROPUBLIC ANONIMI ETAREIA PLIROFORIKIS KAI EPIKOINONION	A telemeter station
WO 2023086963 A1	RAVEN IND INC	Determination of droplet characteristics
WO 2023102403 A1	MOTIVO ENG LLC	Active depth control planting mode
WO 2023094731 A1	KAAKKOIS SUOMEN AMMATTIKORKEA KOULU OY	Arrangement for classifying plant embryos
WO 2023094574 A1	BRIDGESTONE EUROPE NV/SA	Tyre analysis method and system for determining characteristic parameters of an agricultural tractor
WO 2023047240 A1	AGCO INT GMBH	Agricultural implement monitoring
WO 2023065003 A1	MOLIN GIOVANI	Animal feeding robot with reconfigurable modular structural system
WO 2023069203 A1	X DEV LLC	Marine sensor platform
WO 2023088994 A1	MAX PLANCK GESELLSCHAFT	Electronic tag
WO 2023083696 A1	SIGNIFY HOLDING BV	Monitoring cannabis plants
WO 2023086046 A1	ITECH ROBOTIK OTOMASYON YENILENEBILIR ENER EGT MED TAAH SAN VE TIC LTD STI	A feed pushing robot
WO 2023042037 A1	PREC PLANTING LLC	System for unloading a sample container
WO 2023053078 A1	SCUOLA SUPERIORE SANTANNA	Device with soluble hook-shaped micro-elements for the deployment of substances into the leaves of plants
WO 2023056119 A1	APEEL TECH INC	Controlling produce ripening during transit
WO 2023043781 A1	CNH IND AMERICA LLC	Systems and methods for automatically controlling the operation of a cotton harvester and related harvesters
WO 2023067408 A1	AGCO CORP	Control systems and methods for self-propelled windrowers
WO 2023092199 A1	DE OLIVEIRA MATHEUS SANTETTI	Control and monitoring system and method applied to weighing and feed management equipment for animal care
WO 2023041521 A1	SIGNIFY HOLDING BV	A lighting unit for an indoor animal enclosure
WO 2023086301 A1	PET METRICS INC	Deep neural network systems, devices, methods and media for animal health
WO 2023091374 A1	CNH IND AMERICA LLC	System and method for controlling unloading system position of an agricultural harvester

WO 2023102604 A1	FINSELBACH MAX	System and method for remotely monitoring a contained volume of liquid
WO 2023113009 A1	NEC COMM SYSTEMS LTD	Health state ascertaining device, health state ascertaining method, and program
WO 2023073575 A1	DESCROES BV	Method and device for pest control by means of co2
WO 2023091006 A1	BELUA BEHEER B V	Greenhouse with a variable light transmission
WO 2023105112 A1	UPM KYMMENE CORP	Weeding robot
WO 2023072980 A1	BASF AGRO TRADEMARKS GMBH	Monitoring the treatment of an agricultural field
WO 2023055226 A1	RODRIGUEZ SANCHEZ LUIS MANUEL	System for monitoring and controlling hydropinc crop production variables
WO 2023056801 A1	IBM	Enhancing spatial and temporal resolution of greenhouse gas emission estimates for agricultural fields using cohort analysis techniques
WO 2023081431 A1	CNH IND AMERICA LLC	Non-contact sensor systems for an agricultural header
WO 2023106071 A1	KUBOTA KK	Agricultural road identification system, control system, and agricultural machine
WO 2023081427 A1	CNH IND AMERICA LLC	Systems and methods for setting boundaries for a reel of an agricultural header
WO 2023096451 A1	BODIT INC	Method and system for supporting labeling of sensor data, and non-transitory computer-readable recording medium
WO 2023086669 A1	SPORTS DATA LABS INC	A system and method for intelligently selecting sensors and their associated operating parameters
WO 2023097294 A1	RAVEN IND INC	Curvature sensing and guidance control system for an agricultural vehicle
WO 2023055366 A1	ZIMENO INC DBA MONARCH TRACTOR	Obstruction avoidance
WO 2023079063 A1	BAYER AG	Method and system for collecting data on a field used for agriculture
WO 2023043420 A1	T C TRAKYA UENIVERSITESI	A planting machine
WO 2023068063 A1	SONY GROUP CORP	Program, control device and control method
WO 2023102130 A1	KARPOS CULTIVATION	Methods, systems, apparatuses and devices for facilitating cultivation of plants
WO 2023044588 A1	SILK WAY SERVICES INC	Systems and methods of livestock management
WO 2023086221 A1	KOIDRA INC	Simulation and automated control of physical systems
WO 2023085954 A1	VICTORIA LINK LTD	Biosensor, biosensor components, and use thereof
WO 2023096519 A1	PUBLICHNOE AKTSIONERNOE OBSHCHESTVO SBERBANK RUSSIA	Method and device for identifying the outlines of agricultural fields
WO 2023048323 A1	LIM JIN HYEON	Communication service provision system using smart pot
WO 2023062629 A1	THE STATE OF ISRAEL MINISTRY OF AGRICULTURE & RURAL DEVELOPMENT AGRICULTURAL RES ORGANIZATION ARO VO	Method and system for early detection of bovine mastitis using enhanced chemiluminescence
WO 2023069362 A1	BOWERY FARMING INC	System and method for real-time light mapping
WO 2023064259 A1	PUPPYWASH INC	Animal washing system
WO 2023092205 A1	CNH IND BRASIL LTDA	Agricultural method and system for removing debris from a stream of harvested crops in an agricultural harvester
WO 2023107807 A1	PIONEER HI BRED INT	Mounted fertigation device and method
WO 2023062438 A1	RYNAN TECH – VIETNAM JOINT STOCK COMPANY	Multi-function device used for intensive shrimp farming and intensive shrimp farming system using this device
WO 2023044514 A1	OPTRONIA GMBH	Method for identifying at least one object

WO 2023075720 A1	GULCAN ERDAL	The system for fighting pests in tobacco/tobacco products in post-harvest storage and processing processes
WO 2023075369 A1	LG ELECTRONICS INC	Plant cultivation device and server transmitting or receiving plant cultivation information to or from same
WO 2023052825 A1	OXZO S A	A mobile system for the in-situ generation of oxygen and compressed air with no build-up thereof, which increases the concentration of dissolved oxygen in the cages as required
WO 2023077248 A1	SOC DE INVERSIONES E INMOBILIARIA NEW KINGDOM LIMITADA	Greenhouse cultivation of avocado plants with hydroponics irrigation and branch directing
WO 2023081511 A1	LOCAL BOUNTI OPERATING COMPANY LLC	Optimizing growing process in a hybrid growing environment using computer vision and artificial intelligence
WO 2023069432 A1	NUTECH VENTURES	Method and system for active flow rate and droplet size control of variable-orifice spray nozzle
WO 2023096460 A1	LG ELECTRONICS INC	Plant cultivation apparatus and control method for same
WO 2023055175 A1	LEE BAEK SAN	Block type pcb substrate-based smart farm control system
WO 2023081696 A1	AGINNOVATION LLC	Method and system for continuous flow seed treater data acquisition, commercialization, and use
WO 2023102399 A1	FARRPRO INC	Smart tag system for livestock
WO 2023086457 A1	UNIV CALIFORNIA	Cyber-physical system for real-time daylight evaluation
WO 2023048782 A1	MINERAL EARTH SCIENCES LLC	Adaptively adjusting parameters of equipment operating in unpredictable terrain
WO 2023059461 A1	VALMONT INDUSTRIES	System, method and apparatus for filter and overhang plugging detection
WO 2023063891 A2	MASTERMARK PTE LTD	Smart cage module and cage management system
WO 2023060299 A1	AGRICULTURE VICTORIA SERV PTY	System and method/process for in-field measurements of plant crops
WO 2023081371 A1	RAVEN IND INC	Valve priming and depriming
WO 2023101218 A1	ELECTRONICS & TELECOMMUNICATIONS RES INST	Rail detection apparatus and method for autonomous driving of mobile robot in greenhouse environment
WO 2023047410 A1	PATKAR RAJUL SACHIN	Portable electrochemical nutrient testing device for soil health monitoring
WO 2023086791 A1	O2M TECH LLC	Animal temperature control apparatus, system, and methods thereof
WO 2023057786 A1	AMJADI SAEIDABAD VAHID	A beehive monitoring, controlling and feeding system
WO 2023064673 A1	KSI CONVEYOR INC	Continuously flowing seed metering and discharge system
WO 2023086315 A2	HILLS PET NUTRITION INC	Systems and methods for determining movement or location of animal
WO 2023057496 A1	YARA INT ASA	Method and system for providing a site specific fertilizer recommendation
WO 2023060240 A2	MOTIVO ENG LLC	Active node control planting mode

[...ver más](#)

REDES DE SENSORES PARA ENTORNOS URBANOS O PÚBLICOS

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

WO 2023096958 A1	SCHNEIDER ELECTRIC BUILDINGS AMERICAS INC	Distributed people counting system and methods
WO 2023101814 A1	MOTOROLA SOLUTIONS INC	System and method for adapting workflows based on commonality with others
WO 2023105104 A1	UNIV NACIONAL DE EDUCACION A DISTANCIA UNED	Portable device and method for measuring polluting gases
WO 2023039620 A1	AIT AUSTRIAN INSTITUTE TECH GMBH	Method for measuring the traffic volume using das
WO 2023107279 A1	SWAN ROBERT A	Solar board system
WO 2023107292 A1	MOTOROLA SOLUTIONS INC	System and method for converged incident management workflows between private and public safety
WO 2023101815 A1	MOTOROLA SOLUTIONS INC	System and method for adapting workflows based on time to respond
WO 2023054834 A1	CAST CO LTD	Method and device for ai cluster-controlling mobile dof robot for water purification
WO 2023078956 A1	SWISS REINSURANCE CO LTD	Automated parametric modular system or digital platform for forward-looking measurements and ratings of measurable impacts of occurring flood events and modular automated risk-transfer structure providing an adjustable flood impact cover and method thereof
WO 2023092417 A1	GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP LTD	Communication method and apparatus
WO 2023097035 A1	MARMAC WATER LLC	Methods and systems for streaming current analyzer calibration and reporting
WO 2023064748 A1	FIBER SENSE LTD	Scalable telecommunications geotechnical surveying
WO 2023078208 A1	VIVO MOBILE COMMUNICATION CO LTD	Method for implementing sensing service, and device
WO 2023080988 A1	QUALCOMM TECHNOLOGIES INC	Mobility and zone management in zone-based federated learning
WO 2023052570 A1	SWISS REINSURANCE CO LTD	Aerial and/or satellite imagery-based, optical sensory system and method for quantitative measurements and recognition of property damage after an occurred natural catastrophe event
WO 2023078662 A1	BRITISH TELECOMM	Method of operating a telecommunications network
WO 2023099487 A1	FRAUNHOFER GES FORSCHUNG	Apparatus and method for small-scale motion sensing
WO 2023042222 A1	INDIAN INST TECH MADRAS	Sensor network for ambient air quality monitoring

[...ver más](#)

REDES DE SENSORES PARA DETECTAR INCENDIOS

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

WO 2023083630 A1	STADTWERKE BONN VERKEHRS GMBH	Fire protection system and method for the operation thereof
WO 2023094596 A1	DRYAD NETWORKS GMBH	Forest fire early detection system with piezo/bimetallic sensor, and method for operating a forest fire early detection system
WO 2023085652 A1	UX FACTORY CO LTD	Automatic opening/closing safety system using tof sensor and method for controlling same
WO 2023086138 A1	SIEMENS INDUSTRY INC	Fire sprinkler system for building management
WO 2023110934 A1	DRYAD NETWORKS GMBH	Method for determining the position of a terminal of a wildfire early detection system
WO 2023056154 A1	OY HALTON GROUP LTD	Fire detection and warning systems, devices, and methods for kitchen ventilation
WO 2023064355 A1	HIGHLAND FIRE SUPPRESSION LLC	Fire detection and suppression system
WO 2023048494 A1	KIM JAE WHAN	Noise avoidance method of apparatus for spatial monitoring using sound signals
WO 2023097582 A1	SHANDONG MICRO SENSOR PHOTONICS LTD	Distributed optical fiber temperature measurement device, and photovoltaic panel temperature measurement system and method
WO 2023084544 A1	SOMVANSHI RAHUL ASHOK	System for monitoring parameters and predicting fire situations
WO 2023100160 A1	LEHAVOT PRODUCTION & PROT 1995 LTD	Fire-extinguishing system
WO 2023068717 A1	LG ENERGY SOLUTION LTD	Fire prevention device and operation method therefor
WO 2023055136 A1	UNIV KOREA IND UNIV COOP FOUND	Battery safety operating system for shared electric kickboard, and method therefor
WO 2023096937 A1	DARKSTAR VISION INC	Surveillance capsule
WO 2023101824 A1	ALARM COM INC	Intrusion detection system
WO 2023068647 A1	LG ENERGY SOLUTION LTD	Battery module having swelling detection means

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OTRAS REFERENCIAS

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2023086462 A1	SINGER SOURCING LTD LLC	Sewing machine and methods of using the same
WO 2023099819 A1	TURUN YLIOPISTO	A system for operating a food serving system
WO 2023107150 A1	ADEMCO INC	Prediction of supervision failures
WO 2023052608 A1	TRINAMIX GMBH	Multi single detector application specific spectrometer
WO 2023096566 A1	ERICSSON TELEFON AB L M	Wake-up receiver usage by a communication node
WO 2023064442 A1	WORLDWIDE SUPERABRASIVE S LLC	Cnc add-on sensor system and method for real-time detection of tool anomalies
WO 2023101559 A1	MARACQ AS	Methods for magnetic data acquisition in marine environment
WO 2023104505 A1	SIEMENS GAMESA RENEWABLE ENERGY AS	Wind turbine control arrangement
WO 2023062036 A1	ECOMESURE	Neural network-enhanced contaminant measurements
WO 2023084221 A1	PXGEO UK LTD	Pop-up seabed seismic node
WO 2023059260 A1	ERICSSON TELEFON AB L M	Minimization of drive testing configuration
WO 2023083026 A1	HUAWEI TECH CO LTD	Data acquisition method and system, and related device
WO 2023106873 A1	CHOI SEUNG KIL	System for monitoring operation characteristics of power switch
WO 2023056490 A1	FERCHER GEORG	Device and method for assessing the solar conditions affecting a real estate object
WO 2023066927 A1	CONTROLANT HF	A wireless data logger configured to monitor at least one environmental parameter of a shipment including the temperature of the shipment, and a method of operating the wireless data logger
WO 2023068959 A1	JOINT STOCK COMPANY GS NANOTECH	Modular system for collecting and analysing information in an industrial environment
WO 2023105637 A1	FANUC CORP	Device and method for verifying operation of industrial machine
WO 2023037135 A1	TOTALENERGIES ONETECH	Device and method for detecting a sub-surface btx component
WO 2023110119 A1	ERICSSON TELEFON AB L M	Systems and methods for integrated access and backhaul encapsulation in hybrid backhaul networks
WO 2023067196 A1	IGNION S L	SELF-TUNABLE IOT DEVICE AND RADIATING SYSTEM BASED ON NON-RESONANT RADIATION ELEMENTS
WO 2023086124 A1	ADEMCO INC	Prediction of supervision failures
WO 2023041154 A1	CALLIDUS GRUPA D O O	Insulator condition monitoring device and corresponding data processing system
WO 2023088650 A1	SONY SEMICONDUCTOR SOLUTIONS CORP	Circuitry for a plurality of edge devices and method
WO 2023041152 A1	ERICSSON TELEFON AB L M	Sensor grid system management
WO 2023085446 A1	LG ELECTRONICS INC	Drying machine for performing drying function on basis of external environmental information, and control method therefor
WO 2023088937 A1	HOFFMANN LA ROCHE	Method for controlling an anti droplet system of a pipettor and pipettor with anti droplet system control
WO 2023108374 A1	BEIJING XIAOMI MOBILE SOFTWARE CO LTD	Measurement method and device, user equipment, network side equipment, and storage medium
WO 2023107182 A1	MICROSOFT TECHNOLOGY LICENSING LLC	Automatically forming and using a local network of smart edge devices
WO 2023075976 A1	QUALCOMM INC	Resource pools with reference signal resources
WO 2023091084 A1	MERIDIAN INNOVATION PTE LTD	Highly sensitive thermoelectric-based infrared detector with high CMOS integration

WO 2023101580 A1	ERICSSON TELEFON AB L M	Systems and methods for user equipment assisted buffer size in multi-connectivity
WO 2023088728 A1	ENDRESS HAUSER SE CO KG	Computer-implemented method for compensating a sensor
WO 2023108645 A1	ZTE CORP	Method, device and computer program product for wireless communication
WO 2023092016 A1	HUBBELL INC	Electromechanical sensing system
WO 2023083032 A1	HUAWEI TECH CO LTD	Rectifier circuit, apparatus and method
WO 2023096497 A1	AKER CARBON CAPTURE NORWAY AS	Flue gas stack suction control
WO 2023017277 A1	THERMOMEDIA EUROPE LTD	Computer-implemented system and method for monitoring a predetermined condition, characteristic or feature
WO 2023042940 A1	LG ELECTRONICS INC	Electronic device including dew condensation sensor
WO 2023081065 A1	SONNYS HFI HOLDINGS LLC	System for monitoring and controlling dilution rates
WO 2023047939 A1	MURATA MANUFACTURING CO	Measurement device, measurement method, measurement program, and assessment system
WO 2023051279 A1	HANGZHOU SANHUA RES INST CO LTD	Gas concentration measurement device
WO 2023053613 A1	PANASONIC IP CORP AMERICA	Control method, information processing device, and program
WO 2023073698 A1	MOBILE PHYSICS LTD	Monitoring the spraying of particles into the stratosphere to address global warming using smartphones
WO 2023075977 A1	QUALCOMM INC	Coupled resource pools
WO 2023096561 A1	ERICSSON TELEFON AB L M	Wake-up signal
WO 2023058669 A1	SONY SEMICONDUCTOR SOLUTIONS CORP	Image sensor, data processing device, and image sensor system
WO 2023064505 A1	REDZONE ROBOTICS INC	Data translation and interoperability
WO 2023079460 A1	NUTRINTECH 2 LTD	Device for the detection of bacteria in the air
WO 2023070233 A1	CERRION AG	Monitoring system for a container glass forming machine
WO 2023107460 A1	ROTH RIVER INC	Systems and methods for environmental and conditional parameter monitoring
WO 2023080831 A1	ERICSSON TELEFON AB L M	Configuring pairs of downlink (dl) and uplink (ul) reference signals for propagation delay estimation
WO 2023075803 A1	HALLIBURTON ENERGY SERVICES INC	Systems and methods for production and reservoir monitoring
WO 2023096936 A1	CALIFORNIA INST OF TECHN	Methods and printed interface for robotic physicochemical sensing
WO 2023056786 A1	IBM	Attenuation weight tracking in graph neural networks
WO 2023086044 A1	FOLOVMI TEKNOLOJI LTD SIRKETI	A versatile multi-functional integrated smart notification, assistance and support device measuring vital environmental data and manages emergency processes and devices in interaction with the measured data
WO 2023074926 A1	OXUS CO LTD	Explosion-proof oxygen transmitter including gas connector having built-in metal filter
WO 2023059453 A1	EDISON WELDING INST INC	Tele-manufacturing system
WO 2023065353 A1	SHENZHEN RAKWIRELESS TECH CO LTD	Data transmission method, sensing system and sensor hub
WO 2023076627 A1	NOISEAWARE INC	System and method for monitoring and classifying smoking events in monitored spaces
WO 2023046456 A1	DIEHL METERING SYSTEMS GMBH	Arrangement and method for operating a network infrastructure
WO 2023091504 A1	RIOT TECH LLC	Builder quality improvement and cost reduction with sensor data and analytics
WO 2023088528 A1	DECOFLAME APS	Fire simulating device

WO 2023097938 A1	BEIJING GOLDWIND SCIENCE & CREATION WINDPOWER EQUIPMENT CO LTD	Method and device for evaluating service life of pitch bearing of wind turbine
WO 2023070655 A1	HUAWEI TECH CO LTD	Interfacing with coded inference networks
WO 2023075382 A1	VISIONIT CO LTD	Pentane gas sensor, sensor platform, and monitoring system using sensor platform
WO 2023049531 A1	X BOAT LLC	Rowing performance optimization system and methods
WO 2023075518 A1	SAMSUNG ELECTRONICS CO LTD	Method and apparatus for performing pdcch repetitive transmission through plurality of transmission and reception points (trps) in next-generation mobile communication system
WO 2023075942 A1	S & C ELECTRIC CO	Improved accuracy for phasor measurement units (synchrophasors) in utility distribution applications
WO 2023069893 A1	BAKER HUGHES HOLDINGS LLC	Gas leak estimation
WO 2023079818 A1	HITACHI LTD	Data value evaluation operation device and data distribution system
WO 2023039675 A1	THE GOVERNORS OF ATHABASCA UNIV	Bacterial biosensors for monitoring and detection of naphthenic acids in the environment
WO 2023060162 A1	UNIV LOUISIANA STATE	Distributed fiber optic sensing and detection systems and methods for improved drilling operations and well control
WO 2023087077 A1	LAMBERT DAVID RODWELL	An aquatic camouflage and deterrent system
WO 2023064742 A1	SMITHS US INNOVATION LLC	Remote methane detector
WO 2023075028 A1	SAMSUNG ELECTRONICS CO LTD	Electronic device and method for handling critical events in an iot environment
WO 2023080342 A1	JCSQUARE INC	System for recognizing environment situation and notifying of behavior by using artificial intelligence-based environment sensor
WO 2023073677 A2	ERICSSON TELEFON AB L M	Measurements in a communication network
WO 2023039818 A1	SHENZHEN H ONE ELECTRICAL APPLIANCES CO LTD	Temperature probe and smart kitchenware having same
WO 2023069569 A1	NEC LAB AMERICA INC	Snow / water level detection with distributed acoustic sensing integrated ultrasonic device
WO 2023056523 A1	CYAMAST PTY LTD	Computer-implemented method and system for assessing the risk status of one or more networked devices using best practices guidelines

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