

# Boletín VT

## REDES DE SENsoRES INALÁMBRICAS

51

3.er trimestre 2022

### Vigilancia Tecnológica



Desde su aparición, los campos de aplicación de las redes de sensores inalámbricas 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 inalámbricas, 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

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Oficina Española de Patentes y Marcas, O.A.  
[UnidadInformacionTecnologica@oepm.es](mailto:UnidadInformacionTecnologica@oepm.es)

# 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
<a href="#">WO 2022129998 A1</a>	ERICSSON TELEFON AB L M	Providing a dynamic service instance deployment plan
<a href="#">WO 2022185114 A1</a>	PREC PLANTING LLC	Downforce load sensor for a planter row unit
<a href="#">WO 2022102576 A1</a>	SONY GROUP CORP	Sensor device
<a href="#">WO 2022187364 A1</a>	NEOX PUBLIC BENEFIT LLC	Methods and apparatus for bio-regulation and templating of plant growth within a controlled growth capsule for the production of augmented bio-consumables
<a href="#">WO 2022118195 A1</a>	PEAK FIBER INNOVATIONS S R L	Environmental monitoring method and system for crops with fiber bragg grating sensors
<a href="#">WO 2022182650 A1</a>	CNH IND AMERICA LLC	Harvesting header multi-sensor height control
<a href="#">WO 2022186746 A1</a>	HUSQVARNA AB	Vegetation management system and method for managing vegetation within an area
<a href="#">WO 2022189808 A1</a>	VESCOR GROUP LTD	Controlled environment production facility
<a href="#">WO 2022192988 A1</a>	MCCANN DANIEL	System and method for adjustable targeting in field treatment
<a href="#">WO 2022197715 A1</a>	RADIO SYSTEMS CORP	Environmental state health assessment
<a href="#">WO 2022195491 A1</a>	FFROBOTICS LTD	Systems and methods for robotic fruit harvesting
<a href="#">WO 2022132327 A1</a>	BLUE RIVER TECH INC	Machine-learned tillage malfunction detection in an autonomous farming vehicle
<a href="#">WO 2022157085 A1</a>	UBEES FRANCE	Bee pollination monitoring system
<a href="#">WO 2022129513 A1</a>	AGROBOTIX INNOVATION TECH S L	Sensor, system and method to measure the quality of the application of agrochemicals in croplands
<a href="#">WO 2022130145 A1</a>	LELY PATENT NV	Animal husbandry system
<a href="#">WO 2022180616 A1</a>	THE STATE OF ISRAEL MINISTRY OF AGRICULTURE & RURAL DEVELOPMENT AGRICULTURAL RES ORGANIZATION ARO VO	Estimation of a crop coefficient vector based on multispectral remote sensing
<a href="#">WO 2022164963 A1</a>	HELIPONIX LLC	System for monitoring enclosed growing environment
<a href="#">WO 2022173352 A1</a>	DELAVAL HOLDING AB	A method of controlling a milking arrangement, and a milking arrangement
<a href="#">WO 2022180456 A1</a>	ALNUAIMI MOHAMED	Aquaponic system and method of plant cultivation
<a href="#">WO 2022178572 A1</a>	CERES TAG LTD	Improved animal collar assembly
<a href="#">WO 2022173519 A1</a>	VICKERY ETHAN	Adaptable bait station
<a href="#">WO 2022186806 A1</a>	SECKINER TEKNOLOJİ VE KIMYA SANAYİ VE TICARET ANONİM SIRKETİ	Pest control system and method
<a href="#">WO 2022144260 A1</a>	ESTRADA CRISTIANO	Device and method for detecting, displaying and evaluating motion data of a horse
<a href="#">WO 2022167648 A1</a>	CEVA SANTE ANIMALE	Connected hatchery comprising a plurality of devices for handling, processing or vaccinating eggs or chicks

<a href="#"><u>WO 2022149197 A1</u></a>	MITSUBISHI ELECTRIC CORP	Wave transmission control device, underwater organism guidance device, and wave transmission control method
<a href="#"><u>WO 2022140548 A1</u></a>	HEARTLAND AG TECH INC	Modular kinematic and telemetry system for an irrigation system
<a href="#"><u>WO 2022157949 A1</u></a>	RABO INC	Information processing device
<a href="#"><u>WO 2022147530 A1</u></a>	HEARTLAND AG TECH INC	Determining drive system anomalies based on power and/or current changes in an irrigation system
<a href="#"><u>WO 2022124877 A1</u></a>	RODRIGUEZ DENISE SUSANA	Agricultural monitoring system
<a href="#"><u>WO 2022155119 A1</u></a>	X DEV LLC	Predicting soil organic carbon content
<a href="#"><u>WO 2022162372 A1</u></a>	4GD LTD	System for behaviour monitoring
<a href="#"><u>WO 2022158598 A1</u></a>	AMATERZ INC	Wireless communication network system and relay device
<a href="#"><u>WO 2022152797 A1</u></a>	4S AACHEN GMBH	Plant cultivation device
<a href="#"><u>WO 2022192251 A1</u></a>	PROTECT ANIMALS WITH SATELLITES LLC	Corrective collar utilizing geolocation technology
<a href="#"><u>WO 2022153076 A2</u></a>	SAYEADAHMAD MOHAMMAD	Fish trap using light
<a href="#"><u>WO 2022175309 A1</u></a>	KWS SAAT SE & CO KGAA	Methods for analyzing plant material, for determining plant material components and for detecting plant diseases in plant material
<a href="#"><u>WO 2022131109 A1</u></a>	SONY SEMICONDUCTOR SOLUTIONS CORP	Light detector and electronic device
<a href="#"><u>WO 2022131176 A1</u></a>	HAPSMOBILE INC	Control device, program, system and method
<a href="#"><u>WO 2022135632 A1</u></a>	SAM DIMENSION UG HAFTUNGSBESCH RAENKT	Apparatus and method for area mapping
<a href="#"><u>WO 2022170019 A1</u></a>	UNIV FLORIDA	Smart sprayer systems and methods
<a href="#"><u>WO 2022176611 A1</u></a>	NAT AGRICULTURE & FOOD RES ORG	Environmental information acquisition device
<a href="#"><u>WO 2022157306 A1</u></a>	OCADO INNOVATION LTD	A data collection and monitoring system, a controlled environment farming system, devices and related methods
<a href="#"><u>WO 2022150794 A1</u></a>	AGTONOMY	Crop view and irrigation monitoring
<a href="#"><u>WO 2022153757 A1</u></a>	SONY GROUP CORP	Moisture sensor control device, moisture sensor control system, and moisture sensor control method
<a href="#"><u>WO 2022173431 A1</u></a>	AQUAEASY PTE LTD	Fluorescence-based chemosensor
<a href="#"><u>WO 2022178044 A1</u></a>	DEEP GREEN BIOMASS LLC	Methods, apparatus, and systems for highly efficient harvesting and cultivation of microalgae biomass
<a href="#"><u>WO 2022150793 A1</u></a>	AGTONOMY	Multi-operational land drone
<a href="#"><u>WO 2022182666 A1</u></a>	PURDUE RESEARCH FOUNDATION	Grain moisture meter networked to smartphones
<a href="#"><u>WO 2022154743 A1</u></a>	DELAVAL HOLDING AB	Quality sensor, computer-implemented method of predicting inhomogeneities in milk extracted from an animal, computer program and non-volatile data carrier
<a href="#"><u>WO 2022140385 A1</u></a>	701X INC	Livestock management system
<a href="#"><u>WO 2022137243 A1</u></a>	DIPTERA AI LTD	Optical technique for analyzing insects, shrimp and fish
<a href="#"><u>WO 2022159903 A2</u></a>	AGNETIX INC	Multisensory methods and apparatus for controlled environment horticulture
<a href="#"><u>WO 2022155428 A1</u></a>	MAUI GREENS INC	Grow module for plant vessels

[...ver más](#)

## REDES DE SENSORES PARA ENTORNOS URBANOS O PÚBLICOS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
<a href="#">WO 2022101510 A1</a>	U EARTH BIOTECH LTD	Air monitoring systems and methods
<a href="#">WO 2022187552 A1</a>	NEC LAB AMERICA INC	Street light operating status monitoring using distributed optical fiber sensing
<a href="#">WO 2022189269 A1</a>	TRIDONIC GMBH & CO KG	System comprising a luminaire and a camera module
<a href="#">WO 2022123094 A1</a>	REDYTEL IOT S L	System and method for analysing indoor air quality
<a href="#">WO 2022189601 A1</a>	SCHREDER SA	Network system with sensor configuration model update
<a href="#">WO 2022150035 A1</a>	GOOGLE LLC	Generating and managing calibration data for sensors used to obtain weather information
<a href="#">WO 2022162156 A1</a>	TRIDONIC GMBH & CO KG	Lighting system and a method for providing light to an area
<a href="#">WO 2022172450 A1</a>	NIPPON TELEGRAPH & TELEPHONE	Data collecting device, data collecting method and data collecting program
<a href="#">WO 2022179514 A1</a>	SUZHOU OPPLE LIGHTING CO LTD	Street lamp controller upgrading method and bridge node
<a href="#">WO 2022170505 A1</a>	SIEMENS AG	Sensor strip, chain-type sensor strip, and flange leak detection method
<a href="#">WO 2022170506 A1</a>	SIEMENS AG	Sensor strip and flange leak detection method
<a href="#">WO 2022139042 A1</a>	CHORUSING CO LTD	Solar lighting device capable of illuminance control according to traffic
<a href="#">WO 2022180433 A1</a>	NIKJOY GOLRIZ	Portable device for experimental modal analysis of static-dynamic structure of constructions
<a href="#">WO 2022173304 A1</a>	ASSET TELEMETRY B V	A data acquisition system for acquiring maintenance data, an insulating plate portion, a method and a computer program product
<a href="#">WO 2022156996 A1</a>	VESTEL ELEKTRONIK SANAYI VE TICARET AS	Methods and apparatuses for sensing application identification and prediction
<a href="#">WO 2022131388 A1</a>	HYUNSUNG CO LTD	Artificial intelligence-based safety management system using mobile unmanned detection device
<a href="#">WO 2022162657 A1</a>	TRAILZE LTD	Automatically creating a terrain mapping database
<a href="#">WO 2022173959 A1</a>	WATTS REGULATOR CO	Pressure compensation systems, liquid supply systems and methods using the same
<a href="#">WO 2022146388 A1</a>	DOKUZ EYLUEL UENIVERSITESI REKTOERLUEGUE	An entry warning unit and entry control method
<a href="#">WO 2022115712 A1</a>	H2OK INNOVATIONS INC	Methods and systems for monitoring fluids

[...ver más](#)

## REDES DE SENSORES PARA DETECTAR INCENDIOS

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

<a href="#">WO 2022129501 A1</a>	BIRDZ	Module for analysing the consumption of a fluid leaving a valve
<a href="#">WO 2022184971 A1</a>	MARICARE OY	Sensor and system for monitoring
<a href="#">WO 2022186052 A1</a>	NOHMI BOSAI LTD	Smoke monitoring system and smoke sensor
<a href="#">WO 2022185786 A1</a>	PANASONIC IP MAN CO LTD	Alarm system, control device, and detector
<a href="#">WO 2022132588 A1</a>	ITRON INC	Determining alternative outcome or event based on aggregated data
<a href="#">WO 2022171722 A1</a>	TRINAMIX GMBH	Sinusoidal lamp driver
<a href="#">WO 2022132594 A1</a>	ITRON INC	Determining backflow condition in water distribution system
<a href="#">WO 2022126513 A1</a>	BIANYUAN INTELLIGENCE RES INSTITUTE CO LTD OF NANJING	Digitized information-based hospital intelligent management system
<a href="#">WO 2022154278 A1</a>	H2K SOLUTION INCORPORATED	System for thermal runaway prevention and fire prevention in energy storage system
<a href="#">WO 2022181025 A1</a>	PANASONIC IP MAN CO LTD	Control system and sensor
<a href="#">WO 2022168105 A1</a>	GUPTA ASEEM	A textile gateway connector for embedded textile electronics, sensors and digital components
<a href="#">WO 2022177154 A1</a>	ROZETATECH CO LTD	Fire alarm device having traffic control function
<a href="#">WO 2022178197 A1</a>	GEORGIA TECH RES INST	Neural network-based anomaly detection system and method
<a href="#">WO 2022151421 A1</a>	HUAWEI TECH CO LTD	Client device and network node for efficient disaster handling
<a href="#">WO 2022147322 A1</a>	OBERON TECH INC	Systems and methods for virtual reality environments
<a href="#">WO 2022134066 A1</a>	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Firefighting switch device and firefighting system

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## OTRAS REFERENCIAS

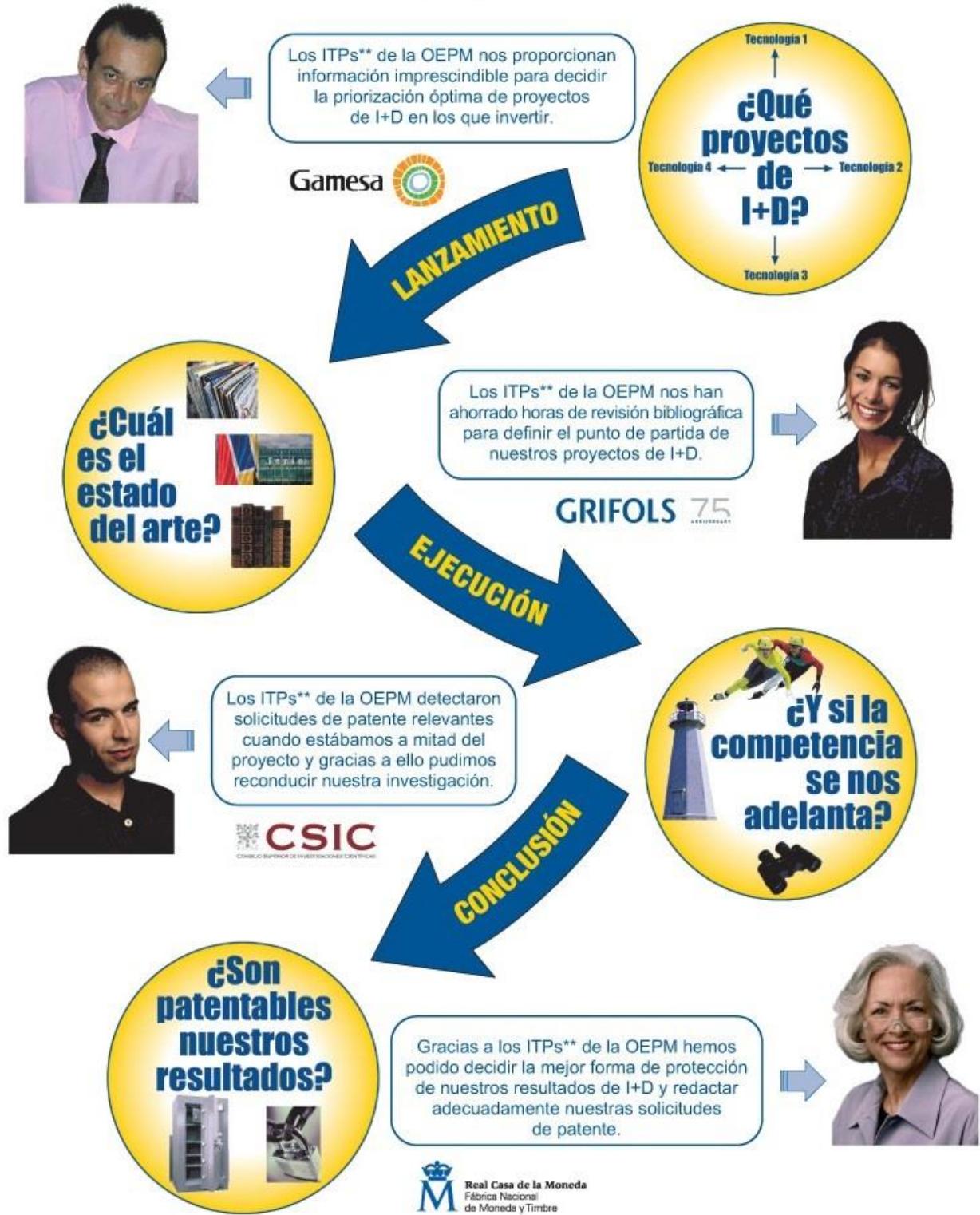
Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
<a href="#">WO 2022187258 A1</a>	SAUDI ARABIAN OIL CO	Detecting carbon dioxide leakage in the field
<a href="#">WO 2022182488 A1</a>	BUILDING ROBOTICS INC	System and method for managing sensors
<a href="#">WO 2022129396 A1</a>	ELECTRICITE DE FRANCE	Method of maintaining an electricity distribution network
<a href="#">WO 2022144822 A1</a>	SEPULVEDA LEON GAGARIN ANIBAL	System for monitoring faults in a medium- and/or high-voltage power line
<a href="#">WO 2022112629 A1</a>	ZEO TECH FOR INDUSTRY S.L	Warehouse management system and method
<a href="#">WO 2022193952 A1</a>	HUAWEI TECH CO LTD	Method and system for wi-fi sensing
<a href="#">WO 2022132284 A1</a>	ITRON INC	Network edge detection and notification of gas pressure situation
<a href="#">WO 2022179886 A1</a>	SIGNIFY HOLDING BV	Disinfection and detection of microorganisms
<a href="#">WO 2022187468 A1</a>	INTEL CORP	Technologies for wireless sensor networks
<a href="#">WO 2022184529 A1</a>	MUNTERS EUROPE AB	A system and methods for communication of sensor data and/or user control data
<a href="#">WO 2022135867 A1</a>	OTT HYDROMET B V	Pyranometer and method of detecting a soiling on a dome in a pyranometer
<a href="#">WO 2022181996 A1</a>	SAMSUNG ELECTRONICS CO LTD	Augmented reality device and electronic device interacting with augmented reality device
<a href="#">WO 2022178865 A1</a>	SIEMENS AG	Method and device for monitoring and predicting traction power supply system of rail transit
<a href="#">WO 2022149622 A1</a>	LG ELECTRONICS INC	Method and device for performing wireless sensing based on wireless sensing
<a href="#">WO 2022155875 A1</a>	QUALCOMM INC	Group uplink control information for industrial internet of things
<a href="#">WO 2022170054 A1</a>	INVENSENSE INC	Adaptive sensor filtering
<a href="#">WO 2022186246 A1</a>	PANASONIC IP MAN CO LTD	Wireless network system, and wireless device
<a href="#">WO 2022129787 A1</a>	SEB SA	Device for monitoring a component of the air
<a href="#">WO 2022146460 A1</a>	BOULDER ENVIRONMENTAL SCIENCES AND TECH	Systems for passive microwave remote sensing and their calibration methods
<a href="#">WO 2022182732 A1</a>	SIGMASENSE LLC	Batteryless wireless sensor system
<a href="#">WO 2022164524 A1</a>	ZEBRA TECH CORP	Automated validation of location tracking system
<a href="#">WO 2022168040 A1</a>	OCTOPUS ENERGY GROUP LTD	Methods and systems for detecting water leakage
<a href="#">WO 2022162053 A1</a>	EXPLICIT APS	A method and an unmanned aerial vehicle for determining emissions
<a href="#">WO 2022174066 A1</a>	BP CORP NORTH AMERICA INC	Systems and methods for facilitating the management of energy production or processing facilities
<a href="#">WO 2022120259 A1</a>	PERCEPTIVE SENSOR TECH INC	Apparatus, system, and method for the detection of objects and activity within a container
<a href="#">WO 2022178574 A1</a>	THE REMEDIATION GROUP PTY LTD	System, apparatus and method for landfill gas sensing
<a href="#">WO 2022129611 A1</a>	LUXEMBOURG INST SCIENCE & TECH LIST	Method for quantifying the extent and recurrence of natural events
<a href="#">WO 2022131292 A1</a>	HONDA MOTOR CO LTD	Information processing device, calculation method, program, and storage medium
<a href="#">WO 2022140684 A1</a>	SCIENT AVIATION INC	System and method for detecting methane and other gases using a remotely deployable, off-grid system
<a href="#">WO 2022161719 A1</a>	UNIV OTTO VON GUERICKE MAGDEBURG	Casting ladle for scooping and casting liquid metal, and method

<a href="#"><u>WO 2022174911 A1</u></a>	ERICSSON TELEFON AB L M	Allocation of frequency domain resources for wireless sensing
<a href="#"><u>WO 2022192085 A1</u></a>	SCHLUMBERGER TECHNOLOGY CORP	Methods and systems providing operational surveillance of valves used in industrial applications
<a href="#"><u>WO 2022171297 A1</u></a>	ERICSSON TELEFON AB L M	Control of wireless sensing devices
<a href="#"><u>WO 2022175190 A2</u></a>	SIGNIFY HOLDING BV	Configuration module for configuring a radiofrequency sensing network
<a href="#"><u>WO 2022149250 A1</u></a>	NIPPON TELEGRAPH & TELEPHONE	Data collection device, sensor terminal, metadata collection system, metadata collection method, and program
<a href="#"><u>WO 2022152614 A1</u></a>	SIGNIFY HOLDING BV	System for controlling a radiofrequency sensing
<a href="#"><u>WO 2022174761 A1</u></a>	IBM	Continous monitoring, advance alerts, and control of key performance indicator variables
<a href="#"><u>WO 2022167097 A1</u></a>	ABB SCHWEIZ AG	Human-robot collaborative navigation
<a href="#"><u>WO 2022177646 A2</u></a>	RAYTHEON CO	Systems and methods for intersensor satellite calibration
<a href="#"><u>WO 2022159542 A1</u></a>	SAUDI ARABIAN OIL CO	Evaluation of source rock samples from subterranean reservoirs
<a href="#"><u>WO 2022162443 A1</u></a>	ADAM AI SOLUTIONS S R L	Predictive system and method for safety in the workplace
<a href="#"><u>WO 2022182135 A1</u></a>	SAMSUNG ELECTRONICS CO LTD	Electronic device and operation method therefor
<a href="#"><u>WO 2022153717 A1</u></a>	UNIV TSUKUBA	Transfer control element and networking system
<a href="#"><u>WO 2022156421 A1</u></a>	DATANG MOBILE COMMUNICATION S EQUIPMENT CO LTD	Method and apparatus for fusing wireless communication and wireless sensing
<a href="#"><u>WO 2022172643 A1</u></a>	PANASONIC IP MAN CO LTD	Estimation system, human monitoring system, estimation method, and program
<a href="#"><u>WO 2022177694 A1</u></a>	MICROSOFT TECHNOLOGY LICENSING LLC	Estimating emissions with virtual sensor models
<a href="#"><u>WO 2022158069 A1</u></a>	KONICA MINOLTA INC	Communication system and data input control program
<a href="#"><u>WO 2022168821 A1</u></a>	PANASONIC IP CORP AMERICA	Information processing method, and information processing device
<a href="#"><u>WO 2022160231 A1</u></a>	HUAWEI TECH CO LTD	Method and apparatus for reading data
<a href="#"><u>WO 2022165600 A1</u></a>	COLDCHASE GP INC	Gateway connection from beacon trackers to a network
<a href="#"><u>WO 2022182535 A1</u></a>	ORCHARD HOLDING	A system, device, process and method of measuring food, food consumption and food waste
<a href="#"><u>WO 2022148639 A1</u></a>	BRITISH TELECOMM	A wireless sensing method
<a href="#"><u>WO 2022139449 A1</u></a>	LG ELECTRONICS INC	Improved wireless lan sensing procedure
<a href="#"><u>WO 2022157677 A1</u></a>	GREENFIT BRO S R L	Common training workstation and related method of use
<a href="#"><u>WO 2022131987 A1</u></a>	DJUP AB	Measuring probe for a spinning or casting rod
<a href="#"><u>WO 2022132026 A1</u></a>	YCH GROUP PTE LTD	System and method for cold chain management of a temperature sensitive product
<a href="#"><u>WO 2022177357 A1</u></a>	SAMSUNG ELECTRONICS CO LTD	Device-invariant, frequency-domain signal processing with machine learning
<a href="#"><u>WO 2022136522 A1</u></a>	TOPSOE AS	Computer-implemented monitoring methods and systems for a renewables plant
<a href="#"><u>WO 2022124532 A1</u></a>	ELSEN CO LTD	Intelligent sensor and intelligent sensing method using same
<a href="#"><u>WO 2022151374 A1</u></a>	SZ DJI TECHNOLOGY CO LTD	Environmental information acquisition apparatus, unmanned aerial vehicle base station, methods, and storage medium
<a href="#"><u>WO 2022148461 A1</u></a>	HUAWEI TECH CO LTD	Wireless local area network sensing method and apparatus
<a href="#"><u>WO 2022155196 A1</u></a>	TECH LICENSING CORP	Root zone warming system for natural turf athletic field
<a href="#"><u>WO 2022158191 A1</u></a>	PANASONIC IP MAN CO LTD	Sensor
<a href="#"><u>WO 2022175576 A1</u></a>	HOP UBIQUITOUS S L	Continuous measuring device for air quality measurement equipment and method for measuring air quality using same

<a href="#"><u>WO 2022125708 A1</u></a>	GEEGAH LLC	Imaging and sensing of thin layer using high-frequency ultrasonic transducers
<a href="#"><u>WO 2022149621 A1</u></a>	LG ELECTRONICS INC	Method and apparatus for performing wireless sensing by collecting empty data on basis of wireless sensing
<a href="#"><u>WO 2022153679 A1</u></a>	HONDA MOTOR CO LTD	Sensor network
<a href="#"><u>WO 2022130301 A1</u></a>	KONTAKT IO INC	Indoor tag location detection system
<a href="#"><u>WO 2022164278 A1</u></a>	SAMSUNG ELECTRONICS CO LTD	Electronic device and method for synchronizing times of different data records
<a href="#"><u>WO 2022139346 A1</u></a>	KOREA ELECTRONICS TECHNOLOGY	Battery state estimation system and method for energy-independent smart sensor
<a href="#"><u>WO 2022159499 A1</u></a>	TAHA AYMAN	Technician performance system
<a href="#"><u>WO 2022129404 A1</u></a>	FRAUNHOFER GES FORSCHUNG	Humidity sensor, method for providing a humidity sensor and method for evaluating a state of a humidity sensor
<a href="#"><u>WO 2022145703 A1</u></a>	SAMSUNG ELECTRONICS CO LTD	Air conditioner, air conditioning system, and control method therefor
<a href="#"><u>WO 2022126025 A2</u></a>	JUMBE NELSON L	Personal protective device and methods of manufacture thereof
<a href="#"><u>WO 2022163892 A1</u></a>	UNIV NAT CHONNAM IND FOUND	Portable wearable respiration monitoring device and mask comprising same
<a href="#"><u>WO 2022159906 A1</u></a>	NEC LAB AMERICA INC	Detection of static weight on aerial telecommunications optical fibers using das ambient data
<a href="#"><u>WO 2022145834 A1</u></a>	KOREA ELECTRONICS TECHNOLOGY	Power saving method and system by determining operation pattern of energy harvesting sensor
<a href="#"><u>WO 2022155293 A1</u></a>	UNIV TEXAS	Gas detector devices and methods of making and use thereof
<a href="#"><u>WO 2022140487 A1</u></a>	NEC LAB AMERICA INC	Context encoder-based fiber sensing anomaly detection

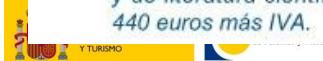
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