

# Boletín VT

## REDES DE SENsoRES INALÁMBRICAS

47

3.er trimestre 2021

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

NIPO: 116-19-015-9



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# 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 2021175859 A1</a>	SIGNIFY HOLDING BV	Estimating a harvesting time for a plant section based on light measurement information
<a href="#">WO 2021182314 A1</a>	NITTO DENKO CORP	Anomaly sensing system
<a href="#">WO 2021182204 A1</a>	NITTO DENKO CORP	Anomaly sensing system
<a href="#">WO 2021177192 A1</a>	SONY GROUP CORP	Path generation method, path generation device, and program
<a href="#">WO 2021178390 A1</a>	INTELLIGENT AGRICULTURAL SOLUTIONS LLC	Stanley coupler
<a href="#">WO 2021170498 A1</a>	YIELD SYSTEMS OY	A phenotyping device, method and system for measuring phenotypic traits of one or more plants in a target canopy
<a href="#">WO 2021123038 A1</a>	LAPORTE URIBE JOSE A	Apparatus for monitoring nutrition, especially fermentation in the rumen of a ruminant
<a href="#">WO 2021136832 A1</a>	STRIPS D O O	Beehivescale, beekeeping control device, apiary and beekeeping control system
<a href="#">WO 2021123726 A1</a>	ZELP LTD	Gas monitoring device
<a href="#">WO 2021156630 A1</a>	SPOTTA LTD	Systems and method for detecting the presence of pests
<a href="#">WO 2021173571 A1</a>	ANIV8 INC	Animal health evaluation system and method
<a href="#">WO 2021161694 A1</a>	NGK SPARK PLUG CO	Water quality measurement device and storage method for water quality measurement device
<a href="#">WO 2021165681 A1</a>	RES & INNOVATION UK	Measuring snowfall
<a href="#">WO 2021125285 A1</a>	CANON KK	Information processing device, computer program, and information processing method
<a href="#">WO 2021125541 A1</a>	SAMSUNG ELECTRONICS CO LTD	Plant cultivation device and control method therefor
<a href="#">WO 2021144629 A1</a>	PREC PLANTING LLC	Apparatuses for soil and seed monitoring
<a href="#">WO 2021128074 A1</a>	TANGSHAN HARBIN SHIP TECH CO LTD	Marine organism boosted culturing and breeding apparatus, and method for using same
<a href="#">WO 2021165476 A1</a>	UNIV LEUVEN KATH	Monitoring of a plant condition
<a href="#">WO 2021119838 A1</a>	MARY AGROTECHNOLOGIES INC	Hydroponic system
<a href="#">WO 2021166008 A1</a>	NILEWORKS INC	Drone and method for controlling drone
<a href="#">WO 2021158644 A1</a>	X DEV LLC	Camera winch control for dynamic monitoring
<a href="#">WO 2021152774 A1</a>	SAGRI CO LTD	Information processing device
<a href="#">WO 2021156653 A1</a>	PONTIFICIA UNIV JAVERIANA	System and method for phenotypic characterisation of agricultural crops
<a href="#">WO 2021119363 A2</a>	AGNETIX INC	Multisensory imaging methods and apparatus for controlled environment horticulture using irradiators and cameras and/or sensors
<a href="#">WO 2021163335 A1</a>	TSI INC	Photoelectric sensor for seed dispensing system
<a href="#">WO 2021162998 A1</a>	BLUE RIVER TECH INC	Upward facing light sensor for plant detection
<a href="#">WO 2021142068 A1</a>	CLIMATE CORP	Using optical remote sensors and machine learning models to predict agronomic field property data
<a href="#">WO 2021168459 A1</a>	HIPPO HARVEST INC	Grow method

<a href="#"><b>WO 2021141896 A1</b></a>	ADAVIV	Mobile sensing system for crop monitoring
<a href="#"><b>WO 2021161294 A1</b></a>	GOVERNMENT OF ISRAEL – THE ISRAEL INSTITUTE FOR BIOLOGICAL RES IIBR	System and method for activity monitoring of animals in homecages
<a href="#"><b>WO 2021155204 A1</b></a>	HERRING JAMISON WAYNE	System for detecting the concentration of gases in soil
<a href="#"><b>WO 2021155013 A1</b></a>	HUMEGY CORP	Methods, systems, and devices for a biophilia-based ecosystem to promote wellbeing and productivity using machine learning
<a href="#"><b>WO 2021118368 A1</b></a>	AUTOGROW LTD	Environmental sensors and sensing methods
<a href="#"><b>WO 2021152594 A1</b></a>	CLEAN SOIL AGRO LTD	Disinfection of soil by application of electric voltage
<a href="#"><b>WO 2021156706 A1</b></a>	IBM	Estimation of crop type and/or sowing date
<a href="#"><b>WO 2021138539 A1</b></a>	AG OX LLC	System for agricultural water oxygenation
<a href="#"><b>WO 2021144785 A1</b></a>	CENTURE APPLICATION LTD	System and method for real-time crop management
<a href="#"><b>WO 2021144807 A1</b></a>	TATA CONSULTANCY SERVICES LTD	System and method for monitoring health of low-cost sensors used in soil moisture measurement
<a href="#"><b>WO 2021138741 A1</b></a>	OTO INC	Lawn or garden maintenance device and related system
<a href="#"><b>WO 2021140408 A1</b></a>	UNIV RAMOT	Plant body channel communications
<a href="#"><b>WO 2021150450 A1</b></a>	AUSTRALIS AQUACULTURE LLC	Bioreactor and method for culturing seaweed

[...ver más](#)

## REDES DE SENSORES PARA ENTORNOS URBANOS O PÚBLICOS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
<a href="#">WO 2021175682 A1</a>	STARSHIP TECH OUE	Method, system and device for analyzing pedestrian motion patterns
<a href="#">WO 2021180281 A1</a>	KAMSTRUP AS	System and method for acoustic leak detection in a utility distribution system
<a href="#">WO 2021136719 A1</a>	SIGNIFY HOLDING BV	A method of provisioning node devices of a network from a backend server, a node device and a backend server
<a href="#">WO 2021136723 A1</a>	SIGNIFY HOLDING BV	A method of determining location addresses of node devices in a network of node devices and such a node device
<a href="#">WO 2021180843 A1</a>	TRIDONIC GMBH & CO KG	Grid of a plurality of building technology sensor modules and system comprising such a grid
<a href="#">WO 2021180847 A1</a>	TRIDONIC GMBH & CO KG	Method for monitoring the density and/or the movement of humans
<a href="#">WO 2021180467 A1</a>	TRIDONIC GMBH & CO KG	Grid of luminaires
<a href="#">WO 2021124329 A1</a>	EQ EARTHQUAKE LTD	Systems and methods for earthquake detection and alerts
<a href="#">WO 2021130275 A1</a>	SCHREDER SA	System and method for driving and controlling light sources
<a href="#">WO 2021160558 A1</a>	SWISS REINSURANCE CO LTD	Digital platform using cyber-physical twin structures providing an evolving digital representation of a real world asset for quantifying event occurrences measurements, and method thereof
<a href="#">WO 2021144030 A1</a>	ERICSSON TELEFON AB L M	Method, system and network nodes for enhancing service provision in a network comprising a plurality of computing device nodes
<a href="#">WO 2021160906 A1</a>	SEPULVEDA CRESPO BRIGIDO	System for managing and controlling atmospheric pollution
<a href="#">WO 2021160603 A1</a>	TRIDONIC GMBH & CO KG	Determination of street condition by acoustic measurement
<a href="#">WO 2021136335 A1</a>	HUAWEI TECH CO LTD	Method for controlling edge node, node, and edge computing system
<a href="#">WO 2021160806 A1</a>	AIRMONT AS	Sensor network
<a href="#">WO 2020020261 A1</a>	SI SHUCHUN	Method for improving monitoring coverage rate during atmospheric monitoring by using bus
<a href="#">WO 2021148778 A1</a>	DETECTRONIC LTD	Open channel flow monitoring apparatus
<a href="#">WO 2021152392 A2</a>	SURVIA LTD	Method and system for managing safety devices in a building during the detection of a threat event
<a href="#">WO 2021163395 A1</a>	EVOQUA WATER TECH LLC	Autonomous chemical dosing system and methods of use thereof
<a href="#">WO 2021146927 A1</a>	SIEMENS SCHWEIZ AG	Method and apparatus for sensor fault detection
<a href="#">WO 2021142397 A2</a>	SELEVAN ADAM JORDAN	Devices and methods for channelizing vehicular traffic and enhancing workzone safety

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## REDES DE SENSORES PARA DETECTAR INCENDIOS

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

<a href="#">WO 2021177396 A1</a>	PANASONIC IP MAN CO LTD	Display system, display method, and program
<a href="#">WO 2021174291 A1</a>	STEPHEN CHRISTOPHER COLIN	An emergency response system and method
<a href="#">WO 2021178120 A1</a>	ENLIGHTED INC	Device and method for managing communications
<a href="#">WO 2021181196 A1</a>	3M INNOVATIVE PROPERTIES CO	Adaptive signal routing in a personal protective equipment network
<a href="#">WO 2021129919 A1</a>	BOSCH GMBH ROBERT	Gaseous fluid monitor and method for monitoring properties of gaseous fluid
<a href="#">WO 2021129920 A1</a>	BOSCH GMBH ROBERT	Sensor device and method for measuring gaseous fluid
<a href="#">WO 2021115728 A1</a>	SIEMENS SCHWEIZ AG	Smoke detection unit for a fire alarm with basic pulse suppression, and suitable method for detecting smoke
<a href="#">WO 2021178292 A1</a>	SOUTH TEK SYSTEMS LLC	Dry pipe fire protection system air maintenance device with pressure monitor
<a href="#">WO 2021130531 A1</a>	INSTITUTO DE SIST E ROBOTICA	Method, device and system for the detection of a flame condition, in particular for the detection of a forest fire
<a href="#">WO 2021138410 A1</a>	PACIFIC GAS AND ELECTRIC COMPANY	System, server and method for monitoring utility systems
<a href="#">WO 2021161663 A1</a>	TATSUMI RYOKI CO LTD	Monitoring system
<a href="#">WO 2021160749 A1</a>	DRYAD NETWORKS GMBH	Forest fire early detection method and forest fire early detection system
<a href="#">WO 2021159017 A1</a>	FLECKNER KAREN	Method for fire protection and suppression with hydrogels and compressed air foam systems
<a href="#">WO 2021134148 A1</a>	GONG BINLU	Door and window flame retardant performance detection device
<a href="#">WO 2021162919 A1</a>	SAUDI ARABIAN OIL CO	Hazard detection and containment
<a href="#">WO 2021166735 A1</a>	NEXT INNOVATION INC	Information providing system
<a href="#">WO 2021165972 A1</a>	SHAVIT DAVID	Community outdoor fire defense
<a href="#">WO 2021164655 A1</a>	AIPHAS CO	System for determining and notifying abnormal high-temperature of field
<a href="#">WO 2021150600 A1</a>	MINIMAX VIKING RES & DEV GMBH	Fire suppression system and method for an enclosed area
<a href="#">WO 2021142827 A1</a>	AI PRIME SHANGHAI COMPANY LTD	Video and sensor monitoring integration system
<a href="#">WO 2021142825 A1</a>	AI PRIME SHANGHAI COMPANY LTD	Treatment system for priority of alarm event
<a href="#">WO 2021133267 A1</a>	KALKAN YALCIN	Fire sensor gas detector
<a href="#">WO 2021153204 A1</a>	AIR WATER SAFETY SERVICE INC	Fire extinguishing system and method for manufacturing same
<a href="#">WO 2021132784 A1</a>	SUNG KI HYUN	Anti-freezing apparatus

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## OTRAS REFERENCIAS

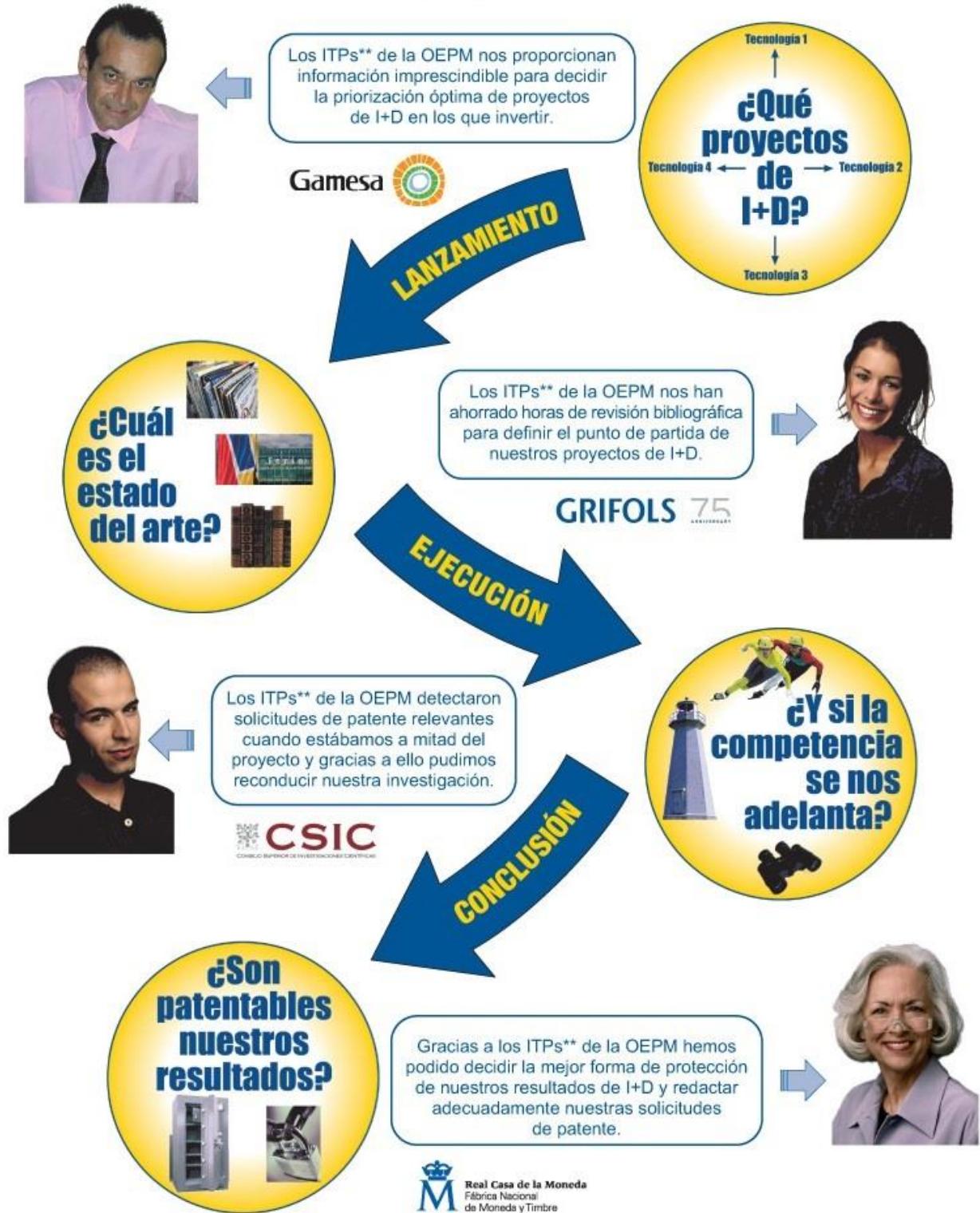
Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
<a href="#"><u>WO 2021178164 A1</u></a>	HUBBELL INC	System and method for monitoring operation of a heating system for a space
<a href="#"><u>WO 2021170888 A1</u></a>	SENER ING & SIST	Ventilation control system for an underground
<a href="#"><u>WO 2021176683 A1</u></a>	NEC CORP	Optical fiber sensing system, optical fiber sensing method, and optical fiber sensing device
<a href="#"><u>WO 2021178286 A1</u></a>	SCHLUMBERGER TECHNOLOGY CORP	Systems and methods for enhancing data acquisition operations in seismic surveys
<a href="#"><u>WO 2021176342 A1</u></a>	IBM	Storage and communication environment for cryptographic tags
<a href="#"><u>WO 2021173547 A1</u></a>	CALIFORNIA INST OF TECHN	Infrared absorption-based composition sensor for fluid mixtures
<a href="#"><u>WO 2021182965 A1</u></a>	SHEARWATER INVEST AS	Steering of marine equipment towed by a vessel by a running block
<a href="#"><u>WO 2021122347 A1</u></a>	FOS4X GMBH	Method for determining a remaining service life of a wind turbine, and wind turbine
<a href="#"><u>WO 2021182992 A1</u></a>	JOINT STOCK COMPANY ROTEK	Method of acquiring data for monitoring the state of building structures
<a href="#"><u>WO 2021130326 A1</u></a>	TUBACEX INNOVACION A I E	Assembly for monitoring the temperature and strain of a pipe
<a href="#"><u>WO 2021138468 A1</u></a>	IND INTELLIGENCE LLC	Continuous dust accumulation monitoring system
<a href="#"><u>WO 2021173138 A1</u></a>	LM WIND POWER AS	System and method for monitoring wind turbine rotor blades using infrared imaging and machine learning
<a href="#"><u>WO 2021172187 A1</u></a>	PANASONIC IP MAN CO LTD	Failure diagnosis device, failure diagnosis system, household electrical appliance, sensor unit, and failure diagnosis method
<a href="#"><u>WO 2021138569 A1</u></a>	3M INNOVATIVE PROPERTIES CO	Monitoring system for evaluating a condition of an electrical grid
<a href="#"><u>WO 2021170502 A1</u></a>	SIGNIFY HOLDING BV	Real-time location of an object using radio frequency and infrared signals
<a href="#"><u>WO 2021182994 A1</u></a>	JOINT STOCK COMPANY ROTEK	Method of monitoring and predicting the state of structures
<a href="#"><u>WO 2021124827 A1</u></a>	MITSUBISHI POWER LTD	Earthquake monitoring system for boiler, and earthquake monitoring device for boiler
<a href="#"><u>WO 2021130030 A1</u></a>	INST MINES TELECOM	Devices and methods for low power adaptive channel sensing
<a href="#"><u>WO 2021126765 A1</u></a>	SAUDI ARABIAN OIL CO	Sensor network for subsurface impact protection system
<a href="#"><u>WO 2021127529 A1</u></a>	CATMASTERS LLC	Virtual reality to reality system
<a href="#"><u>WO 2021154470 A1</u></a>	SMART SCIENCE TECH LLC	System for providing a virtual focus group facility
<a href="#"><u>WO 2021155950 A1</u></a>	KONUX GMBH	System and method for analysing railway related data
<a href="#"><u>WO 2021165407 A1</u></a>	SONY GROUP CORP	A system and a method for generating a weather map
<a href="#"><u>WO 2021136510 A1</u></a>	HANGZHOU HIKROBOT TECH CO LTD	Data acquisition system, method, device, electronic apparatus, and storage medium
<a href="#"><u>WO 2021134254 A1</u></a>	JIANGSU NANGAO INTELLIGENT EQUIPMENT INNOVATION CENTER CO LTD	Modeling system for collected data of sensors on numerical control machine tool and method therefor
<a href="#"><u>WO 2021173188 A1</u></a>	NEC LAB AMERICA INC	Distributed sensing over switched optical fiber networks
<a href="#"><u>WO 2021133938 A1</u></a>	FEENEY JOHN	Contextualized sensor systems
<a href="#"><u>WO 2021158591 A1</u></a>	CALIFORNIA INST OF TECHN	Strain gauge flow meter for downhole applications
<a href="#"><u>WO 2021132774 A1</u></a>	HWASEUNG EXWILL CO LTD	Management system for artificial intelligence-type pneumatic fender
<a href="#"><u>WO 2021119313 A1</u></a>	ORIGIN ROSE LLC	Spectral analysis and machine learning to detect offset well communication using high frequency acoustic or vibration sensing
<a href="#"><u>WO 2021132713 A1</u></a>	LIGHTHOUSE INC	Information processing device, program, and method
<a href="#"><u>WO 2021138500 A1</u></a>	VISWESWARIAH CHANDU	Scalable systems and methods for assessing healthy condition scores in renewable asset management

<a href="#"><u>WO 2021156287 A1</u></a>	VENTUS ENG GMBH	Wake monitoring, wake management and sensory arrangements to such
<a href="#"><u>WO 2021166260 A1</u></a>	NIPPON TELEGRAPH & TELEPHONE	Data collection system, and data collection method
<a href="#"><u>WO 2021126312 A1</u></a>	OCEANEERING INT INC	System for identification of marine mammalian species present at an offshore construction site
<a href="#"><u>WO 2021159180 A1</u></a>	POST HARVEST LEARNING PTY LTD	A gas monitor and method of detecting gas, including a ripening monitor
<a href="#"><u>WO 2021138207 A1</u></a>	EMERA TECH LLC	Power distribution systems and methods
<a href="#"><u>WO 2021166261 A1</u></a>	NIPPON TELEGRAPH & TELEPHONE	Data collection system and data collection method
<a href="#"><u>WO 2021138523 A1</u></a>	BOOZ ALLEN HAMILTON INC	System and method for dynamic three dimensional command and control
<a href="#"><u>WO 2021140135 A1</u></a>	NORWEGIAN UNIV SCI & TECH NTNU	Wireless sensor system
<a href="#"><u>WO 2021156821 A1</u></a>	DX TECH PTY LTD	Methods and systems for detection, location and characterization of signal sources in electrical infrastructure using distributed sensors
<a href="#"><u>WO 2021125437 A1</u></a>	UNIV INJE IND ACAD COOP FOUND	Real-time electronic float fishing system
<a href="#"><u>WO 2021150545 A1</u></a>	ROSEMOUNT INC	Wireless sensor network gateway with integral intrinsic safety outputs for field mounted access point antennas
<a href="#"><u>WO 2021151495 A1</u></a>	HUAWEI TECH CO LTD	Devices, methods and computer programs for bootstrapping a group of node devices for wireless local area networking
<a href="#"><u>WO 2021162841 A1</u></a>	SENSATA TECHNOLOGIES INC	Wireless protocol for sensing systems
<a href="#"><u>WO 2021165547 A1</u></a>	AQUATRACE LTD	Leak detection system and method
<a href="#"><u>WO 2021154677 A1</u></a>	LEITNER POMA OF AMERICA INC	Aerial ropeway hazard sensing system and method
<a href="#"><u>WO 2021134564 A1</u></a>	SIEMENS AG	Method and device for processing sensor data
<a href="#"><u>WO 2021153142 A1</u></a>	NEC CORP	Sensing range limiting device, receiving device, transmitting and receiving device, optical fiber sensing range limiting method, and recording medium
<a href="#"><u>WO 2021154344 A1</u></a>	HALLIBURTON ENERGY SERVICES INC	Thermal analysis of temperature data collected from a distributed temperature sensor system for estimating thermal properties of a wellbore
<a href="#"><u>WO 2021137907 A1</u></a>	MASSACHUSETTS INST TECHNOLOGY	Remote meteorological sensing via aircraft mode selective enhanced surveillance
<a href="#"><u>WO 2021166320 A1</u></a>	HITACHI LTD	Moving body abnormal state monitoring system
<a href="#"><u>WO 2021165954 A1</u></a>	SHMUNIK ALEXANDER	A method and system of rfid tray for hotel rooms
<a href="#"><u>WO 2021163287 A1</u></a>	VIEW INC	Predictive modeling for tintable windows
<a href="#"><u>WO 2021118908 A1</u></a>	BARNES GROUP INC	Wireless sensor with beacon technology
<a href="#"><u>WO 2021149528 A1</u></a>	UNIV OSAKA	Event predicting system, event predicting method, and program
<a href="#"><u>WO 2021156864 A1</u></a>	OPGAL OPTRONIC IND LTD	System and method for tracking and analyzing an air contaminant plume
<a href="#"><u>WO 2021152493 A1</u></a>	NERKAR SARANG DILIP	Methods, devices, systems and computer program products for sensor systems
<a href="#"><u>WO 2021142539 A1</u></a>	SHUMKA THOMAS	Predictive modeling of health of a driven gear in an open gear set
<a href="#"><u>WO 2021146106 A1</u></a>	BROAN NU TONE LLC	Devices for use in an indoor air quality system
<a href="#"><u>WO 2021142064 A1</u></a>	SCHLUMBERGER TECHNOLOGY CORP	Systems and methods for performing seismic survey in shallow water areas
<a href="#"><u>WO 2021138505 A1</u></a>	UNIV CALIFORNIA	Multi-gas detection with cs-fet arrays for food quality assessment
<a href="#"><u>WO 2021157971 A1</u></a>	SAMSUNG ELECTRONICS CO LTD	Air conditioner
<a href="#"><u>WO 2021130634 A1</u></a>	IBM	Integration of physical sensors in data assimilation framework
<a href="#"><u>WO 2021133254 A1</u></a>	ANTWORKS PTE LTD	Method and system for robotic process automation
<a href="#"><u>WO 2021154975 A1</u></a>	SMART HOME PROT LLC	Security flashlights with threat detection
<a href="#"><u>WO 2021158973 A1</u></a>	UNIV BOSTON	Enzyme-based electrochemical nicotine biosensor

<a href="#"><u>WO 2021147216 A1</u></a>	SHANGHAI INST OPTICS & FINE MECH CAS	Distributed optical fiber acoustic sensing system and signal processing method
<a href="#"><u>WO 2021148849 A1</u></a>	NASH IND INDIA PRIVATE LTD	Smart-containers for an inventory management system

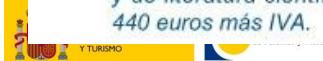
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