

Boletín VT

REDES DE SENSORES INALÁMBRICAS

34

2.º trimestre 2018

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: 088-17-027-2



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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
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WO 2018073060 A1	PETERS OLE	Planning and implementing agricultural measures
WO 2018092135 A1	MARGALIT NIR	Method and system for crop yield estimation
WO 2018091649 A1	EBERSPACH MICHAEL	Detector for optically detecting at least one object
WO 2018093523 A1	JOHANSEN STEVEN	Method and apparatus for compensation of wind effects on measured weights
WO 2018104865 A1	MARQUES CORREIA RICARDO JOÃO LUIS	Passive sensor system powered by wireless energy transmission
WO 2018107245 A1	CLARK ANTHONY	Detection of environmental conditions
WO 2018084370 A1	LEE MEONG HUN	System for identifying worker in smart greenhouse by using beacon
WO 2018100877 A1	KUBOTA YOSHIIASU	Display control device, display control method, and program
WO 2018105222 A1	YAJIMA MASAKAZU	Display control device, display control method, and program
WO 2018084371 A1	LEE MEONG HUN	Iot-based agricultural water monitoring system
WO 2018057647 A1	PIERSON SHAD	Methods and compositions for detecting analytes
WO 2018084372 A1	LEE MEONG HUN	Automatic hog feeder
WO 2018098738 A1	XIONG YICHONG	Monitoring method and device base on aerospace multi-source remote sensing data
WO 2018105400 A1	HIRAMATSU TOSHIKUMI	Path generation system
WO 2018074928 A1	KARABACK DEVREZ MEHMET	Probe for determining soil properties
WO 2018081853 A1	ALLEN SIMON	Controlling agricultural production areas
WO 2018112272 A1	HICKS RONALD	Livestock management
WO 2018074917 A2	BUIJS MARTINUS CORNELLS JOHANNES	Animal farm system and method of generating barn map information of said animal farm system
WO 2018100976 A1	OKADA TAKUYA	Chilling unit system, temperature management system, remote controller, and control method
WO 2018105873 A1	MYUNG KWANGMIN	Soil sensor device using weather information for improving accuracy of error detection, control method thereof, and recording medium having computer program recorded thereon
WO 2018067625 A1	LAFIAN JESSE	Tensiometer apparatus and method
WO 2018085095 A1	KOCH DALE	Work layer imaging and analysis for implement monitoring, control and operator feedback
WO 2018049189 A1	SHAKOOR NADIA	Integrated field phenotyping and management platform for crop development and precision agriculture
WO 2018064497 A1	MUNEEPEERAKUL CHITSOMANUS P	Crop indicator determination using multiple rainfall index analysis
WO 2018062885 A1	BARBER ARTHUR PETER III	Controlling ultraviolet intensity over a surface of a light sensitive object
WO 2018068042 A1	MASSEY SCOTT	Plant growing apparatus and method
WO 2018071727 A1	SAEZ ORLANDO	System for monitoring crops and soil conditions



<u>WO 2018097366 A1</u>	PARK JUNG HO	Fish catching device and catching unit included therein
<u>WO 2018084754 A1</u>	AL ABDULLAH MOHAMMAD	Subsurface irrigation device
<u>WO 2018085452 A1</u>	JENNINGS WILLIAM E	Systems and Methods for Soil Modeling and Automatic Irrigation Control
<u>WO 2018056102 A1</u>	OGAWA TETSU	Information processing device, information processing method, program, and sensing device
<u>WO 2018100555 A1</u>	LEFEBVRE ALAIN	Farrowing system with piglet birth detection and method for operating the same
<u>WO 2018049289 A1</u>	RICHT RYAN	Systems for adjusting agronomic inputs using remote sensing, and related apparatus and methods
<u>WO 2018048782 A1</u>	CANTRELL ROBERT L	Apparatus and method for monitoring a field
<u>WO 2018057316 A1</u>	PEETERS ERIC	Specialized trap for ground truthing an insect recognition system
<u>WO 2018068036 A1</u>	ROSZTOCZY JOSEPH F	Deriving farming operations from gps location data
<u>WO 2018081849 A1</u>	JENSEN ASHLEY	System and device for monitoring and controlling agricultural produce
<u>WO 2018098190 A1</u>	CHEN YE	Determining intra-field yield variation data based on soil characteristics data and satellite images
<u>WO 2018050137 A1</u>	EBERIUS MATTHIAS	Device for killing and weakening plants and other organisms
<u>WO 2018045458 A1</u>	NGUYEN MY T	Irrigation system and method
<u>WO 2018050138 A1</u>	EBERIUS MATTHIAS	Device for the electrocution of structures in the environment and use of said device
<u>WO 2018062989 A2</u>	VAN VLIET WILHELMUS PETRUS	Illumination system for greenhouses with remote monitoring
<u>WO 2018048387 A1</u>	BAYNES JEREMY	Systems and methods for mapping emerged plants
<u>WO 2018058153 A2</u>	ADAMS STEPHEN P	Method and apparatus for horticultural lighting with enhanced dimming and optimized efficiency
<u>WO 2018051399 A1</u>	UEJIMA TOSHIAKI	State prediction device and state prediction method
<u>WO 2018073060 A1</u>	PETERS OLE	Planning and implementing agricultural measures
<u>WO 2018092135 A1</u>	MARGALIT NIR	Method and system for crop yield estimation
<u>WO 2018091649 A1</u>	EBERSPACH MICHAEL	Detector for optically detecting at least one object
<u>WO 2018093523 A1</u>	JOHANSEN STEVEN	Method and apparatus for compensation of wind effects on measured weights
<u>WO 2018104865 A1</u>	MARQUES CORREIA RICARDO JOÃO LUÍS	Passive sensor system powered by wireless energy transmission

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REDES DE SENSORES PARA ENTORNOS URBANOS O PÚBLICOS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
<u>WO 2018106140 A1</u>	KARNACHEV ALEXEY ALEXANDROVICH	Method for determining of a fluid supply network state
<u>WO 2018103639 A1</u>	ZENG NING	Network-based environment monitoring system, method, and computer readable storage medium
<u>WO 2018093792 A1</u>	CHOU TSUNG- KUAN A	Smart sensing network
<u>WO 2018073075 A1</u>	LEKSE DOMINIKA	Lighting control
<u>WO 2018082929 A1</u>	DE VRIES JUDITH	A lighting-system and a lighting-system control method
<u>WO 2018091673 A1</u>	KELLY DECLAN	Battery-powered sensor device and operating method
<u>WO 2018054976 A1</u>	WENDT MATTHIAS	A building automation system with servicing beacon
<u>WO 2018070572 A1</u>	LEE HAE-MOON	Real-time monitoring movable type sewer pipeline flowmeter
<u>WO 2018054968 A1</u>	RAJAGOPALAN RUBEN	Flooding localization and signalling via intelligent lighting
<u>WO 2018060010 A1</u>	NEILD IAN	Collection of sensor data from sensor devices
<u>WO 2018085904 A1</u>	DE OLIVEIRA JÚNIOR ANTONIO CARLOS	System for detecting leaks in the water supply network
<u>WO 2018097567 A1</u>	SHIN GYU-WEON	Lighting control device and lighting apparatus including same
<u>WO 2018100655 A1</u>	OGATA YUJI	Data collection system, abnormality detection system, and gateway device
<u>WO 2018061015 A2</u>	FLEISHMAN DAVID	A system, platform and method for constant online water quality & safety monitoring of an entire fluid system using multi-sensor units with online cross checking data analysis on remote servers with ai software and algorithms
<u>WO 2018067316 A2</u>	POTYRAILO RADISLAV	Systems and methods for environment sensing
<u>WO 2018057357 A1</u>	POTYRAILO RADISLAV ALEXANDROVICH	Systems and methods for environment sensing
<u>WO 2018052599 A1</u>	JAIN AMIT	Method and apparatus for enablement of location data sources during emergency positioning session
<u>WO 2018048287 A1</u>	CHOI BYEONG- DOO	Image processing method and device for projecting image of virtual reality content
<u>WO 2018060802 A1</u>	STUBY RICHARD G JR	Light sensor assembly having wireless data transfer
<u>WO 2018053433 A1</u>	SEMANOUKIAN EDOUARD	Apparatus, system and method for a portable personal air quality monitor
<u>WO 2018052446 A1</u>	MARTINEZ CANEDO ARQUIMEDES	Critical infrastructure forensics
<u>WO 2018081670 A1</u>	MODI SOHRAB	Video data and gis mapping for traffic monitoring, event detection and change prediction

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REDES DE SENSORES PARA DETECTAR INCENDIOS

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

<u>WO 2018089629 A1</u>	BIRNKRAFT MICHAEL J	High sensitivity fiber optic based detection
<u>WO 2018095707 A1</u>	SCHELPER SEBASTIAN	Mask unit, system, and method for using a system
<u>WO 2018089660 A1</u>	BIRNKRAFT MICHAEL J	High sensitivity fiber optic based detection
<u>WO 2018089471 A1</u>	BIRNKRAFT MICHAEL J	High sensitivity fiber optic based detection
<u>WO 2018089654 A1</u>	BIRNKRAFT MICHAEL J	High sensitivity fiber optic based detection
<u>WO 2018089474 A1</u>	BIRNKRAFT MICHAEL J	High sensitivity fiber optic based detection
<u>WO 2018097930 A1</u>	GRABOWSKI ADAM R	Building management system with priority array preview interface
<u>WO 2018089477 A1</u>	BIRNKRAFT MICHAEL J	High sensitivity fiber optic based detection
<u>WO 2018110813 A1</u>	CHOI SUNG-HWAN	Boiler having gas detection and earthquake detection function and control method therefor
<u>WO 2018071214 A1</u>	LI BENLIANG	Determination of the physical location of field device
<u>WO 2018089473 A1</u>	BIRNKRAFT MICHAEL	High sensitivity fiber optic based detection
<u>WO 2018089480 A1</u>	PIECH MARCIN	High sensitivity fiber optic based detection
<u>WO 2018089636 A1</u>	BIRNKRAFT MICHAEL J	High sensitivity fiber optic based detection
<u>WO 2018091742 A1</u>	AUGUSTIN BERTRAND	Method for managing electrical supply of a device and system for implementing said method
<u>WO 2018069477 A1</u>	PENNEY STEPHEN	Robotic detector test system
<u>WO 2018075681 A1</u>	YANG ZHIWEI	Electrochemical sensor containing an internal reference cell
<u>WO 2018054990 A1</u>	Ó'TUAMA SEÁN	A stand-alone overheat detection alarm device
<u>WO 2018064822 A1</u>	ZHOU BIN	Permeable optical fiber for gas sensing
<u>WO 2018083902 A1</u>	SATO MASASHI	Electricity meter and electricity meter fire outbreak location identification method
<u>WO 2018071460 A1</u>	BALDINO MARK STEVEN	Advanced misting delivery system, methods, and materials
<u>WO 2018083901 A1</u>	SATO MASASHI	Electricity meter and electricity meter fire outbreak location identification method
<u>WO 2018076201 A1</u>	ZHAO DONG	Systems and methods for prioritizing wireless communication
<u>WO 2018077870 A1</u>	VALOUCH SEBASTIAN	Nfrared optical detector with integrated filter
<u>WO 2018079400 A1</u>	EBATA HIROMICHI	Fire monitoring system
<u>WO 2018089998 A1</u>	ROSCA FLORIN	Pump cloud-based management and control technique customized hydronic components
<u>WO 2018097270 A1</u>	MURATA NAOYOSHI	Gas alarm, control device, and program
<u>WO 2018062626 A1</u>	MIN SEONG HYEON	Resource management system for measurement data acquisition between heterogeneous domains of internet of things
<u>WO 2018063135 A1</u>	SULYM ANDRII VOLODYMYROVYCH	System for preventing the onset of emergency situations in utility systems of premises
<u>WO 2018070816 A2</u>	HAN SANG CHEON	Disaster site monitoring system and method
<u>WO 2018075560 A1</u>	GARG PARAG KUMAR	Broadcast mode for non-paired devices and critical messages
<u>WO 2018059883 A1</u>	ANLIKER RETO	Hvac actuator with heating apparatus
<u>WO 2018056598 A1</u>	LEE JI-WON	Energy storage system and fire management method for energy storage system
<u>WO 2018056646 A1</u>	LEE YOUNG BOK	Automatically activated intelligent fire extinguisher



<u>WO 2018068130 A1</u>	STINSON SEAN	Portable personal monitor device and associated methods
<u>WO 2018081143 A1</u>	ELLIOTT STEPHEN	Closed loop control of electrostatic voltage and current based on humidity
<u>WO 2018088912 A2</u>	STENERUD JON ØIVIND	Safety detector and system for multi dwelling units and the like
<u>WO 2018080743 A1</u>	ALBERTH JR WILLIAM P	Thermostat with direction display and direction handoff features
<u>WO 2018089668 A2</u>	BIRNKRAANT MICHAEL	High sensitivity fiber optic based detection
<u>WO 2018048278 A1</u>	PARK JUNG SIK	Method and system for controlling uiicc and euicc
<u>WO 2018056173 A1</u>	OGAWA YUKI	Detector, isolator, warning system and control method
<u>WO 2018088854 A1</u>	AN BEONG-KU	IoT monitoring system using visible light communication
<u>WO 2018075280 A1</u>	KARG KAREN	Human-machine interface for gas valve
<u>WO 2018089606 A1</u>	IACOBONE SEAN	Systems and methods for providing monitoring and response measures in connection with remote sites
<u>WO 2018057233 A1</u>	VAPURCUYAN ALAN	Configurable remote battery monitor
<u>WO 2018045456 A1</u>	SZASZ RICHARD DEVIN	Face mask for filtering air and air monitoring system

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OTRAS REFERENCIAS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
<u>WO 2018097807 A1</u>	CETINKAYA OKTAY	System and method of electric field energy harvesting from lighting elements for internet of things
<u>WO 2018100383 A1</u>	BAUGH ROBERT	Method and apparatus for improving energy efficiency of sensing technology
<u>WO 2018091929 A1</u>	GREEN MATTHEW	Insect light trap
<u>WO 2018070875 A1</u>	HOGERVORST FRANCISCUS ANTONIUS NICOLAAS	Pore pressure monitoring device and method for monitoring pore water pressure
<u>WO 2018095509 A1</u>	JIN WENYU	A sound processing node of an arrangement of sound processing nodes
<u>WO 2018091113 A1</u>	NADENAU MARCUS	Monitoring installation for monitoring a monitoring region, and monitoring station for the monitoring installation
<u>WO 2018061326 A1</u>	KASHIWABARA HIROSHIGE	Automatic inspection system, object to be inspected reading device for automatic inspection system, and automatic inspection system control method
<u>WO 2018067223 A1</u>	CRAFT KENNETH LAWRENCE	Calibration of geophone and hydrophone pairs
<u>WO 2018078617 A1</u>	GOERTZ MANUEL	Method of operating a sensor network and system therefor
<u>WO 2018098748 A1</u>	REN ZHI	Communication method in distributed network, node, and system
<u>WO 2018071695 A1</u>	HU JIA	Fall protection equipment event generation and monitoring
<u>WO 2018101504 A1</u>	JI YOUNG MIN	Method and system for generating metadata for service mashup
<u>WO 2018102061 A1</u>	CELICOURT PAUL	Integration of transducer data collection
<u>WO 2018100925 A1</u>	MISUMI SHUICHI	Matching device, terminal, sensor network system, matching method, and matching program
<u>WO 2018100720 A1</u>	ITO NAOKI	Data collection apparatus and data collection program
<u>WO 2018105239 A1</u>	KADOTA RYOJI	Sensing system and sensor device
<u>WO 2018106278 A1</u>	HOUCHENS BRENT CHARLES	Automated method for environmental hazard reduction
<u>WO 2018049552 A1</u>	YANG RONG	Method and apparatus for controlling network sensors
<u>WO 2018056716 A1</u>	LEE JU HWAN	Marine search and rescue system utilizing v-pass-based personal location transponder, and search control method thereof
<u>WO 2018080856 A1</u>	ANDERSON SHAWN W	Integration of online and offline control valve data
<u>WO 2018084778 A1</u>	JOHANSSON NICKLAS	Positioning procedure for relaxed mobility iot devices
<u>WO 2018085949 A1</u>	HOWE WILSON	Vibration-analysis system and method therefor
<u>WO 2018098737 A1</u>	REN ZHI	Method for selecting cluster head in distributed network, node, and system
<u>WO 2018098747 A1</u>	REN ZHI	Communication method in distributed network, node, and system
<u>WO 2018105458 A1</u>	ITO YUICHI	Wireless sensor system, wireless sensor terminal, and data collection method
<u>WO 2018105871 A1</u>	MYUNG KWANG MIN	Device for managing weather information using fine dust sensor, method thereof, and recording medium having computer program recorded thereon
<u>WO 2018106277 A1</u>	WINSTON JOSEPH BLAKE	Intelligent, real-time response to changes in oilfield equilibrium
<u>WO 2018079126 A1</u>	TERUMOTO KOJI	Earthquake sensing module and earthquake sensing system
<u>WO 2018098301 A1</u>	KINNEY ABRAHAM JOSEPH	Detection of authorized user presence and handling of unauthenticated monitoring system commands
<u>WO 2018098749 A1</u>	REN ZHI	Message broadcasting method in distributed network and node
<u>WO 2018105784 A1</u>	JIN BYUNG JIN	Home energy management system using a plurality of sensors
<u>WO 2018104892 A2</u>	CHARTRAND PATRIK	Method and system for measuring, analyzing and transmitting sensor data
<u>WO 2018104960 A1</u>	CHAWALA SAHIL	Fluid gauging device
<u>WO 2018083710 A2</u>	GOPALAN ANUSH	An improved management and internetworking of devices to collect and exchange data without requiring interaction
<u>WO 2018098745 A1</u>	REN ZHI	Communication method in distributed network, node, and system
<u>WO 2018098721 A1</u>	XIONG YICHONG	Environment data monitoring method and system
<u>WO 2018067389 A1</u>	SHARBER DUSTIN	Method and system for remote processing and analysis of industrial asset inspection data

<u>WO 2018085567 A1</u>	LI CHENGBO	Use nuos technology to acquire optimized 2d data
<u>WO 2018096472 A1</u>	ALTAY CAN	Wireless backhaul management of sensor networks via programmable ran controller
<u>WO 2018105872 A1</u>	MYUNG KWANG MIN	Device for detecting abnormalities of weather sensor using composite determining, method thereof, and recording medium having computer program recorded thereon
<u>WO 2018054463 A1</u>	KERÄNEN ARI	Methods and apparatus for communication
<u>WO 2018068692 A1</u>	LV XINJIE	System, method and computer program product for fault detection and location in power grid
<u>WO 2018089048 A1</u>	PADGETT JOHN	Wireless guest engagement system
<u>WO 2018096344 A2</u>	NANCEKIEVILL ALEXANDER	Systems and methods for remotely monitoring the cryogenic processing of samples
<u>WO 2018045544 A1</u>	FAN JUNJUN	Environmental parameter measurement system
<u>WO 2018085226 A1</u>	WATTWOOD JAMES A	Antenna monitoring system including cloud based server communication via cellular telephone transceiver and related methods
<u>WO 2018098752 A1</u>	REN ZHI	Message broadcast method for distributed network and node
<u>WO 2018101103 A1</u>	TANIGUCHI KOICHI	On-demand service provision system and on-demand service provision method
<u>WO 2018098759 A1</u>	REN ZHI	Method for selecting cluster head in distributed network, node, and system
<u>WO 2018102623 A1</u>	NUPNAU LARS	Ballast water management system
<u>WO 2018066687 A1</u>	ISHIBASHI KOICHIRO	Wireless sensor device and wireless sensor system
<u>WO 2018077770 A2</u>	KILIAN GERD	Optimized hopping patterns for different sensor nodes and variable data lengths, based on the telegram splitting transmission method
<u>WO 2018078218 A1</u>	TANUTAMA MIKHAEL	Method, apparatus and computer program product for providing sensor data collection and sensor configuration
<u>WO 2018063476 A1</u>	WHITE CHRISTOPHER	Multi-location tool sensing system
<u>WO 2018068055 A1</u>	GREENE CHARLES E	Automated system for lighting control
<u>WO 2018076121 A1</u>	LIU YU	System and method for indirectly monitoring one or more environmental conditions
<u>WO 2018066139 A1</u>	KURIHARA KOJI	Communication device, communication system, and communication control method
<u>WO 2018067275 A1</u>	SILVA GABRIEL	Maintenance condition sensing device
<u>WO 2018090018 A1</u>	KERZNER DANIEL TODD	Doorbell call center
<u>WO 2018049357 A1</u>	CHAKKLAKAL FRANCO A	Automated re-melt control systems
<u>WO 2018052433 A1</u>	ROSCA JUSTINIAN	Generation of failure models for embedded analytics and diagnostic/prognostic reasoning
<u>WO 2018053564 A1</u>	BUHAGIAR STEVEN LESLIE JOSEPH	Breathing apparatus indicator device
<u>WO 2018084884 A1</u>	SWANSON RICHARD SCOTT	Networked system for processing sensor data and external data for an ad server
<u>WO 2018056976 A1</u>	DAI BIN	Methods and systems for obtaining high-resolution spectral data of formation fluids from optical computing device measurements
<u>WO 2018072030 A1</u>	SELLATHAMBY CHRIS	Systems and methods for early warning of seismic events
<u>WO 2018048351 A1</u>	MATHUR ADITYA	Defense system and method against cyber-physical attacks
<u>WO 2018065671 A1</u>	YLI-KOVERO RISTO TAPIO	Sauna monitoring system and method
<u>WO 2018052449 A1</u>	DONDERICI BURKAY	Method of detecting substance saturation in a formation
<u>WO 2018097807 A1</u>	CETINKAYA OKTAY	System and method of electric field energy harvesting from lighting elements for internet of things
<u>WO 2018100383 A1</u>	BAUGH ROBERT	Method and apparatus for improving energy efficiency of sensing technology

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