

Boletín VT

REDES DE SENSORES INALÁMBRICAS

30

2.º trimestre 2017

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

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

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

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2017085557	SOC INNOVATIONS IPCO LTD	System and method for monitoring and controlling components in an agricultural environment using configurable software platforms
WO 2017099951	THE CLIMATE CORP	Cloud detection on remote sensing imagery
WO 2017093728	SAMUELS ADRIAN JAMES	Air pollution monitoring
WO 2017086775	PRIVA B V	Air handling system for a climate control system in an delimited space, climate control system for climate control in an delimited space, modular unit comprising a delimited space and climate control system and an assembly of modular units
WO 2017072738	M C PROJECT S R L	Self-propelled machine of processing espalier yarns
WO 2017060409	DEMAND SIDE INSTR	Device and system for remote sensing
WO 2017095019	GLOBIT CO LTD	Marine cultivation system for operating and managing sensor without cleaning
WO 2017060168	BAYER CROPSCIENCE AG	Method for operating a harvesting machine with the aid of a plant growth model
WO 2017085415	AGROTECSOL	System for evaluating the crop-growing potential of an agricultural soil and method for estimating hydrogen and nitrogen flows
WO 2017060800	OSRAM GMBH	A lighting system and corresponding method
WO 2017083673	RAIN BIRD CORP	Moisture sensing valves and devices
WO 2017082456	LINUXIT CO LTD	Wind direction/wind speed measuring device
WO 2017081432	4WORLD DESIGNS LTD	Animal sorting device
WO 2017073825	T&B NANOIEC	Fan heater management system and control method therefor
WO 2017070772	ADLER JEFFREY SCOTT	Sensor for detecting remotely located reflective material
WO 2017086875	CUBE 2 PTE LTD	An apparatus and method for treating water for rearing aquatic beings
WO 2017091622	HI FIDELITY GENETICS LLC	Method and device for non-invasive root phenotyping
WO 2017093991	CROPX TECH LTD	A soil sensor assembly
WO 2017066830	T B GUEST & CO PTY LTD	System for maintaining the health of one or more plants
WO 2017087620	TELELUMEN LLC	Illumination content production and use
WO 2017060543	INTEO MEDIA MOBILE S L	Perimeter surveillance system for marine farms and similar
WO 2017057948	SALTNLIGHT INC	Animal housebreaking device and animal housebreaking system using same
WO 2017080558	JØRGEN HYLDGAARD STALDSERVICE AS	Plant, its use and method for acidifying animal manure
WO 2017068224	CONSEJO SUPERIOR DE INVESTIG CIENTÍFICAS	Biomimetic and zoosemiotic unmanned aircraft guided by automatic pilot for precision and/or pursuit flights
WO 2017045200	SHENZHEN SAIYI SCIENCE&TECHNOLOGY DEV CO LTD	Intelligent potting device

WO 2017075445	TELSKO IND INC D/B/A WEATHERMATIC	Systems and methods for sensing precipitation
WO 2017077538	ECO PACK GREEN BOX USA LLC	Compactly transportable collapsible container for perishable goods
WO 2017066513	UNIV COLUMBIA	Acoustic automated detection, tracking and remediation of pests and disease vectors
WO 2017066353	DRONE SEED CO	Forestry information management systems and methods streamlined by automatic biometric data prioritization
WO 2017053273	THE CLIMATE CORP	Estimating intra-field properties within a field using hyperspectral remote sensing
WO 2017053127	THE CLIMATE CORP	Ponding water detection on satellite imagery
WO 2017085557	SOC INNOVATIONS IPCO LTD	System and method for monitoring and controlling components in an agricultural environment using configurable software platforms
WO 2017099951	THE CLIMATE CORP	Cloud detection on remote sensing imagery
WO 2017093728	SAMUELS ADRIAN JAMES	Air pollution monitoring
WO 2017086775	PRIVA B V	Air handling system for a climate control system in a delimited space, climate control system for climate control in a delimited space, modular unit comprising a delimited space and climate control system and an assembly of modular units
WO 2017072738	M C PROJECT S R L	Self-propelled machine of processing espalier yarns

[...ver más](#)

REDES DE SENSORES PARA ENTORNOS URBANOS O PÚBLICOS

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

WO 2017089181	PHILIPS LIGHTING HOLDING BV	A system for and a method of monitoring water drainage
WO 2017046587	PAVEGEN SYSTEMS LTD	Flooring system
WO 2017066690	INTERTRUST TECH CORP	Sensor information management systems and methods
WO 2017074519	RUBICON GLOBAL HOLDINGS LLC	Waste management system having anticipatory control
WO 2017065871	RIMALU TECH INC	Traffic pollution indicator
WO 2017068499	UNIV DE SAN BUENAVENTURA MEDELLÍN	Mobile device for georeferencing and monitoring air quality and greenhouse gases
WO 2017079489	SCEPTER INCORPORATED	Atmospheric sensor network and analytical information system related thereto
WO 2017083556	UNIV CALIFORNIA	Myshake: smartphone-based earthquake early warning system
WO 2017053449	VENIAM INC	Systems and methods for collecting sensor data in a network of moving things
WO 2017051411	AGT INT GMBH	Near real-time modeling of pollution dispersion
WO 2017066679	SATKUNARAJAH THARMALINGAM	Apparatus and method for displaying multi-format data in a 3d visualization space

[...ver más](#)

REDES DE SENSORES PARA DETECTAR INCENDIOS

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

WO 2017072448	FINSECUR	Mapping device and method, fire detection system and method, and temperature regulation system
WO 2017083935	ESH IP PTY LTD	Fire control system
WO 2017053396	AMI INVEST LLC	Remote monitoring of water distribution system
WO 2017058998	SENSORMATIC ELECTRONICS LLC	Sensor based system and method for augmenting underwriting of insurance policies
WO 2017070819	SHANGHAI EAGLE SAFETY EQUIPMENT LTD	Personal gas monitor diagnostic systems and methods
WO 2017074026	KIM BYOUNG RYUL	Capsule-type fire extinguisher
WO 2017058994	SENSORMATIC ELECTRONICS LLC	System and method for determining risk profile, adjusting insurance premiums and automatically collecting premiums based on sensor data
WO 2017069756	HONEYWELL INT INC	Smart respiratory face mask module
WO 2017073061	PANASONIC IP MAN CO LTD	Fire sensing device of automated fire notification system, and automated fire notification system comprising same
WO 2017095729	COOPER TECHNOLOGIES CO	Fail-safe lighting control system
WO 2017052736	VENTI LLC	Disaster response system and method
WO 2017056377	PANASONIC IP MAN CO LTD	Sensor network system
WO 2017059004	SENSORMATIC ELECTRONICS LLC	Sensor packs that are configured based on business application
WO 2017058992	SENSORMATIC ELECTRONICS LLC	Sensor based system and method for determining allocation based on physical proximity
WO 2017067995	BRAGI GMBH	Personal area network devices system and method
WO 2017066411	GE-HITACHI NUCLEAR ENERGY AMERICAS LLC	Passive fire response system and method of manufacturing

[..ver más](#)

OTRAS REFERENCIAS

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2017093559	BOSCH GMBH ROBERT	Intelligent lighting and sensing system and method thereof
WO 2017089129	WOBLEN PROPERTIES GMBH	Method for outputting control instructions or event messages for a wind energy installation or a wind farm, and an evaluation device and a system therefor
WO 2017087689	ELLIPTIC WORKS LLC	Pool data collection and control system
WO 2017098193	TOSHIBA RES EUROPE LTD	Configuration of a wireless connection used to transmit sensor readings from a sensor to a data collection facility
WO 2017084968	KIETTA	Controlling the depth of a seismic cable
WO 2017063706	HUAWEI TECH CO LTD	A sound processing node of an arrangement of sound processing nodes
WO 2017078941	CARRIER CORP	Hvac management system and method
WO 2017094442	OMRON TATEISI ELECTRONICS CO	Data flow control apparatus and data flow control method
WO 2017054990	BRITISH TELECOMM	Line fault localisation
WO 2017064660	UNIVERSITA' DEGLI STUDI DI ROMA LA SAPIENZA	Method and device for dynamical protocol selection
WO 2017097759	PGS GEOPHYSICAL AS	Geophysical survey systems and related methods
WO 2017093715	OPTASENSE HOLDINGS LTD	Tracking using distributed fibre optic sensing
WO 2017100195	TRUVA INC	Environment-aware cross-layer communication protocol in underground oil reservoirs
WO 2017077095	SOLUTION SEEKER AS	Assessment of flow networks
WO 2017100293	STRUCTURAL HEALTH SYSTEMS INC	Method and system for monitoring building structures
WO 2017098866	NEC CORP	Data collection system, data collection method, gateway device, server device, and program
WO 2017085103	UNIV DE MONTPELLIER	Use of biopolymer in a dielectric gas sensor
WO 2017076433	SIEMENS AG	Intelligent heat, ventilation, and air conditioning system
WO 2017095208	SAMSUNG ELECTRONICS CO LTD	Method and apparatus for managing device using at least one sensor
WO 2017060867	SENSO2ME NV	Wireless monitoring system
WO 2017074312	HEWLETT PACKARD ENTPR DEV LP	Sensor detection architecture
WO 2017091003	SAMSUNG ELECTRONICS CO LTD	Method and apparatus for channel sensing in communication system
WO 2017090888	HWANG JAE SIK	Intelligent integrated switch combined with wireless network function for establishing iot environment, and control method using same
WO 2017066435	WAL-MART STORES INC	Sensor data analytics and alarm management
WO 2017090306	NEC CORP	Sensor data collection system
WO 2017093982	GIRIDHARASHARM A KUMBLE GANESHPRASAD	A composite digital surveillance apparatus, a system and method of digital surveillance
WO 2017091053	SAMSUNG ELECTRONICS CO LTD	Apparatus and method for determining user's presence
WO 2017091784	ELECTRIC POWER RES INST	Apparatus and methods for direct sensing of rotational dynamics of a rotating shaft

WO 2017099539	SAMSUNG ELECTRONICS CO LTD	Apparatus and method for controlling temperature in air conditioning system
WO 2017079350	PURA SCENTS INC	Scent dispensation
WO 2017093996	HISEP TECH LTD	Directionally awareness of wireless sensor nodes
WO 2017083111	HONEYWELL INT INC	Aggregate monitor data in real-time by worker
WO 2017062703	BELLUTECH LLC	Modules, systems, and methods for monitoring environmental conditions
WO 2017047842	ASN INC	System and method for distributing fresh food on basis of iot and through big data algorithm analysis technique
WO 2017063067	COGNITIVE SYSTEMS CORP	Antenna systems for wireless sensor devices
WO 2017052303	SAMSUNG ELECTRONICS CO LTD	Network hub management method and device in wireless communication system
WO 2017053808	LOCATOR IP LP	Hyper-localized weather/environmental data
WO 2017048921	SENCORABLES LLC	Floor contact sensor system and methods for using same
WO 2017071613	GLOBAL DESIGN CORP LTD	Resource consumption monitoring system, platform and method
WO 2017093559	BOSCH GMBH ROBERT	Intelligent lighting and sensing system and method thereof
WO 2017089129	WOBBEN PROPERTIES GMBH	Method for outputting control instructions or event messages for a wind energy installation or a wind farm, and an evaluation device and a system therefor

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Los ITPs** de la OEPM nos han ahorrado horas de revisión bibliográfica para definir el punto de partida de nuestros proyectos de I+D.



Los ITPs** de la OEPM detectaron solicitudes de patente relevantes cuando estábamos a mitad del proyecto y gracias a ello pudimos reconducir nuestra investigación.



Gracias a los ITPs** de la OEPM hemos podido decidir la mejor forma de protección de nuestros resultados de I+D y redactar adecuadamente nuestras solicitudes de patente.



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