

Boletín VT

REDES DE SENSORES INALÁMBRICAS

26

2.º trimestre 2016

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: 073-15-019-2

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
----------------	-------------	-------------------

WO 2016032956	PREMIER CROP SYSTEMS LLC	System And Method For Controlling Machinery For Randomizing And Replicating Predetermined Agronomic Input Levels
WO 2016039174	SONY CORP	Information Processing Device, Information Processing Method, And Program
WO 2016039176	SONY CORP	Information Processing Device, Information Processing Method, And Program
WO 2016059626	HERD MOONITOR LTD	A Method And Device For Remote Monitoring Of Animals
WO 2016086035	PREC PLANTING LLC	System And Methods For Identifying Fields And Tasks
WO 2016051026	PERUNAMESTARIT OY	A Sensor For Monitoring Ambient Characteristics
WO 2016049217	BIOCARBON ENGINEERING LTD	Techniques For Automated Planting
WO 2016056017	KOROL OLEG	Self Configuring Decentralized Control System For Field Irrigation
WO 2016076532	UNIV SUNCHON NAT IND ACAD COOP	Augmented Reality Based Smart Greenhouse Structure Monitoring System And Method
WO 2016061281	SENTINEL GLOBAL PRODUCT SOLUTIONS INC	Co2 Generator And Controller
WO 2016073429	DOW AGROSCIENCES LLC	Pest Control System And Method Of Operating Same
WO 2016077883	STATION INNOVATION PTY LTD	Remote Monitoring System
WO 2016064735	UNIV FLORIDA	Wireless Sensor System For Mosquito Population Growth Analysis, Logging, And Reporting

[...ver más](#)

REDES DE SENSORES PARA ENTORNOS URBANOS O PÚBLICOS

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

WO 2016053034	KMW INC	Street Light Management Method And Apparatus
WO 2016075102	SCHREDER	Method For Detecting Earthquakes And Locating Epicentres By Means Of A Network Of Lights
WO 2016075116	SCHREDER	Control Module For Controlling A Light, Particularly A Street Light, And Network Of Lights
WO 2016087909	KAZEMI SEYED MOHAMMAD HOSEIN	Wlan Provided By A Lamp
WO 2016075144	SCHREDER	Method For Operating And Controlling A Network Of Lights
WO 2016062216	TRANSEMISSION CONTROL TECHNOLOGY INTERNAT CO LTD	Traceable Emission Remote Monitoring System And Method
WO 2016086139	ISPD INC	System And Method For Traffic Decongestion
WO 2016050536	PHILIPS LIGHTING HOLDING BV	Systems And Methods For Managing Environmental Conditions
WO 2016079870	FUJITSU LTD	Water Amount Measurement Device And Water Amount Monitoring System
WO 2016080820	UNIV INT RABAT	Led Stand-Alone Speed-Limit Road Sign With Variable Display According To Weather Conditions
WO 2016073020	POWER SURVEY LLC	Apparatus And Method For Monitoring And Controlling Detection Of Stray Voltage Anomalies Using A Photonic Sensor
WO 2016053034	KMW INC	Street Light Management Method And Apparatus

[...ver más](#)

REDES DE SENSORES PARA DETECTAR INCENDIOS

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2016054691	COMMW SCIENT IND RES ORG	A Method Of Setting Up A Tracking System
WO 2016073311	GOOGLE INC	Enhanced Automated Environmental Control System Scheduling Using A Preference Function
WO 2016087100	BOSCH GMBH ROBERT	Method For Producing A Gas Sensor Device For Detecting At Least One Gaseous Analyte, And Gas Sensor Device For Detecting At Least One Gaseous Analyte
WO 2016094297	UNILECTRIC LLC	An Integrated Hazard Risk Management And Mitigation System
WO 2016037308	CHEN SHUO HONG	Intelligent Disaster Prevention And Escape Method And Disaster Prevention And Escape System Thereof
WO 2016077385	NOVI SECURITY INC	Power-Optimized Security Sensor
WO 2016087223	BOSCH GMBH ROBERT	Method For Operating A Safety Device In Electric Vehicles And Hybrid Vehicles
WO 2016092870	SMK KK	Disaster Determination System And Disaster Determination Method
WO 2016042440	CARTASENSE LTD	Systems And Methods For Brush Fire Communication
WO 2016048190	OBSHESTVO S OGRANICHENNOI OTVETSTVENNOS TJU FORNOVSKIJ LITEINO MEKH ZD	Quick-Response Sprinkler
WO 2016090377	DYKES JEFFREY L	Directional Indicator For Protective Face Masks
WO 2016049778	TYCO SAFETY PROD CANADA LTD	Method And Apparatus For Resource Balancing In An Automation And Alarm Architecture
WO 2016055122	ERICSSON TELEFON AB L M	Broadcast In Meshed Networks
WO 2016073292	CARRIER CORP	Dynamic Acquisition Terminal For Behavior Statistic Information Of People, Evacuation System And Method
WO 2016094208	MOTOROLA SOLUTIONS INC	A Method And System For Information Management For An Incident Response
WO 2016057655	AKRON BRASS CO	Fire Suppression System Component Integration
WO 2016045944	EHOSTAR UK HOLDINGS LTD	Detection And Prevention Of Toxic Gas
WO 2016085474	HEWLETT PACKARD ENTPR DEV LP	Distress Signal Device
WO 2016080739	SONG WAN KEUN	Integrated Crime And Disaster Prevention And Broadcasting System
WO 2016070280	CINNOS TECHNOLOGIES INC	Smart Mission Critical Rack
WO 2016073578	WWTEMPLAR LLC	Remote Control Of Fire Suppression Systems

[..ver más](#)

OTRAS REFERENCIAS

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2016038203	NOGS GMBH	Communication Between Network Nodes By Means Of Scripts
WO 2016043126	UNIV TOHOKU	Sensor Network Sensor Device And Method For Sending Data To Sensor Network
WO 2016047603	NEJILAW INC	Measurement Method For Building
WO 2016073344	3M INNOVATIVE PROPERTIES CO	Wireless Sensing Devices And Method For Detecting Hydration
WO 2016077598	GOOGLE INC	Data Processing Systems And Methods For Smart Hub Devices
WO 2016086360	ABB TECHNOLOGY LTD	Wind Farm Condition Monitoring Method And System
WO 2016043635	ERICSSON TELEFON AB L M	Sensor System Of Master And Slave Sensors, And Method Therein
WO 2016076953	EXXONMOBIL UPSTREAM RES CO	Cable Head Marine Seismic Source
WO 2016034799	ORANGE	Method Of Forwarding Data Between Ip Devices
WO 2016036956	COOPER TECHNOLOGIES CO	Optical Gas Sensor
WO 2016054440	ANALOG DEVICES INC	Wireless Network Power Distribution And Data Aggregation System And Associated Applications
WO 2016077014	QUALCOMM INC	Opportunistic Ioe Message Delivery Via Sensor-Triggered Forwarding
WO 2016048622	APPLIED MATERIALS INC	Method For Rejecting Tuning Disturbances To Improve Lamp Failure Prediction Quality In Thermal Processes
WO 2016048710	GEN MONITORS	Directional Ultrasonic Gas Leak Detector
WO 2016030297	INTERNAT RES INST OF STAVANGER AS	Biosensor Device, System And Method For Monitoring A Deep-Water Sea-Floor
WO 2016073413	3M INNOVATIVE PROPERTIES CO	Wireless Sensor For Thermal Property With Thermal Source
WO 2016075438	OPTOSCI LTD	Multipoint Gas Sensing Apparatus
WO 2016086326	TARCO TRAZABILIDAD SPA	Measuring Tank Fluids And Remote Monitoring System
WO 2016092475	OKULOV PAUL D	Micro Electro-Mechanical Strain Displacement Sensor And Usage Monitoring System
WO 2016036612	PCMS HOLDINGS INC	System And Methods For Sensor Node Localization And Sensor Network Organization Based On Contextual Event Detection
WO 2016077003	QUALCOMM INC	Opportunistic Mtc Message Delivery Via Wan-Triggered Forwarding
WO 2016040954	FREE AIR INC	Systems And Methods For Air Filtration Monitoring
WO 2016057494	VERTECRA INC	System, Method, And Apparatus For Powering Intelligent Lighting Networks
WO 2016064129	CORECHIPS CO LTD	Power-Free Wireless Integrated Sensor
WO 2016064942	CARRIER CORP	Scalable Cyber-Physical Structure Management
WO 2016081607	QUALCOMM INC	System And Method For Determining A Seat Location Of A Mobile Computing Device In A Multi-Seat Environment
WO 2016062710	PGS GEOPHYSICAL AS	Methods And Systems To Separate Seismic Data Associated With Impulsive And Non-Impulsive Sources
WO 2016068736	NEOSTRAIN SPÓŁKA Z OGRANICZONA ODPOWIEDZIALNO SCIA	Method, System And Prefabricated Multi-Sensor Integrated Cable For Detection And Monitoring Of A Fluid Flow, In Particular Of A Fluid Flow In Filtration Processes, Especially Of Leakage In Constructions And/Or In Ground
WO 2016084445	ROHM CO LTD	Sensor Network System And Method Of Operating Same
WO 2016041059	NEURIO TECHNOLOGY INC	Selecting Extracted Features Of Electricity Consumption Data
WO 2016082254	SHENYANG INST OF AUTOMATION OF THE CHINESE ACADEMY OF SCIENCES	Robust Coverage Method For Relay Nodes In Double-Layer Structure Wireless Sensor Network

WO 2016048876	GEN ELECTRIC	Systems And Methods For Validating Wind Farm Performance Measurements
WO 2016085511	HALLIBURTON ENERGY SERVICES INC	Onshore Electromagnetic Reservoir Monitoring
WO 2016085698	CISCO TECH INC	Network Discovery In Low-Power And Lossy Networks
WO 2016041079	UNIV NEW BRUNSWICK	Optical Sensor Systems And Image Processing Methods For Remote Sensing
WO 2016054345	SENSOR NETWORKS INC	Asset-Condition Monitoring System
WO 2016084210	HITACHI LTD	Network System And Communication Control Method
WO 2016083492	MARITIME RADAR SYSTEMS LTD	A System For Monitoring A Maritime Environment
WO 2016063190	SAINI RAVINDER PAL SINGH	Miniature Wearable Electronic Device For Continuously Monitoring Health Through Ear
WO 2016071769	SERCEL RECH CONST ELECT	Bio-Acoustic Sensing Device And Method For Marine Seismic Survey
WO 2016081631	ITRON INC	Application Platform Operable On Network Node
WO 2016083670	SI TECNO OY	Method For Measuring Pressure Differences Between Different Premises In A Building
WO 2016073327	3M INNOVATIVE PROPERTIES CO	TAG ASSEMBLY WITH MULTIPLE ANTENNAS, Ics, AND/OR SENSING ELEMENTS
WO 2016077889	MINDSPARK TECHNOLOGIES PTY LTD	A Rock Movement Sensor For Use During Blasting
WO 2016073408	3M INNOVATIVE PROPERTIES CO	Wireless Sensing System Using Sensing Device With Excitation Element
WO 2016078788	FREIE UNIVERSITÄT BERLIN	A Method And A Feedback System For The Assessment Of Motions Of A Versatile System
WO 2016073567	CISCO TECH INC	Proactive Broadcast Capacity Adjustment For Fast Network Joins
WO 2016077856	TRIDONIC GMBH & CO KG	Illuminating Means, System And Communication Method
WO 2016072838	MIMOS BERHAD	A System And Method For Next Hop Selection In A Wireless Sensor Network
WO 2016070153	BASTILLE NETWORKS INC	Advanced Localization Of Radio Transmitters In Electromagnetic Environments
WO 2016038203	NOGS GMBH	Communication Between Network Nodes By Means Of Scripts
WO 2016043126	UNIV TOHOKU	Sensor Network Sensor Device And Method For Sending Data To Sensor Network

¡¡Por sólo 500€ añada 150 especialistas* a su Equipo de I+D!!



Los ITPs** de la OEPM nos proporcionan información imprescindible para decidir la priorización óptima de proyectos de I+D en los que invertir.



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.



* La OEPM cuenta con más de 150 examinadores de patentes especializados en los diversos sectores tecnológicos y en la búsqueda de información científico-técnica.

** Los Informes Tecnológicos de Patentes o ITPs son estudios a la medida que incluyen una búsqueda de patentes y de literatura científica con un análisis en profundidad de los documentos más relevantes. Su coste es de 440 euros más IVA.

OEPM



Oficina Española de Patentes y Marcas
UnidadInformacionTecnologica@oepm.es