

Boletín VT

REDES DE SENSORES INALÁMBRICAS

8

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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

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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WO2011150351 A2	GVM INC [US] et al.	SYSTEM AND METHOD FOR COLLECTING AND PROCESSING AGRICULTURAL FIELD DATA
WO2011150319 A2	GEOSTELLAR LLC [US] et al.	SYSTEM AND METHOD FOR GEOMATIC MODELING OF A DIVERSE RESOURCE BASE ACROSS BROAD LANDSCAPES
WO2011141901 A1	AUTOAGRONOM ISRAEL LTD [IL] et al.	OXYGEN AVAILABILITY-BASED IRRIGATION SYSTEM
WO2011139137 A1	MIMOS BERHAD [MY] et al.	DEVICE WITH CARBON NANOTUBE
WO2011120074 A1	APERIUM PTY LTD [AU] et al.	METHOD AND SYSTEM FOR TRACKING A TRANSPORTED PRODUCT

[...ver más](#)

REDES DE SENSORES PARA ENTORNOS URBANOS O PÚBLICOS

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

WO2011153507 A2	REGENTS BOARD OF [US] et al.	WIRELESS COMMUNICATION METHODS, SYSTEMS, AND COMPUTER PROGRAM PRODUCTS
WO2011151829 A2	NOVIK ITAY [IL]	TOILET FACILITY SYSTEM
WO2011151772 A1	KONINKL PHILIPS ELECTRONICS NV [NL] et al.	CONFIGURATION UNIT AND METHOD FOR CONFIGURING A PRESENCE DETECTION SENSOR
WO2011151765 A1	KONINKL PHILIPS ELECTRONICS NV [NL] et al.	METHOD FOR CONTROLLING A LIGHTING SYSTEM, AND LIGHTING SYSTEM
WO2011145027 A1	KONINKL PHILIPS ELECTRONICS NV [NL] et al.	METHOD AND DEVICE FOR FORWARDING DATA PACKETS
WO2011140369 A1	GREENSLEEVES LLC et al.	ENERGY CHASSIS AND ENERGY EXCHANGE DEVICE
WO2011140038 A1	BARTLETT MATTHEW [US] et al.	LOGISTICALLY ENABLED SAMPLING SYSTEM
WO2011134881 A1	IBM [US] et al.	DATA PROCESSING METHOD AND SYSTEM FOR CHECKING PIPELINE LEAKAGE
WO2011131797 A1	URBIOTICA S L [ES] et al.	SYSTEM FOR URBAN ENVIRONMENT DATA ACQUISITION AND MANAGEMENT AND RELATED METHODS AND USE
WO2011120193 A1	SIEMENS AG et al.	METHOD, SYSTEM AND DEVICE FOR PROVIDING TRAFFIC INFORMATION
WO2011118986 A2	UNIV SEOUL FOUNDATION OF INDUSTRY ACADEMIC COOPERATION [KR], LEE YONG WOO [KR]	METHOD FOR CONTROLLING WATER QUALITY IN U-CITY AND U-CITY SYSTEM HAVING WATER QUALITY CONTROL FUNCTION
WO2011117812 A1	KONINKL PHILIPS ELECTRONICS NV [NL] et al.	SYSTEM AND METHOD FOR AUTOMATICALLY CONTROLLING AN AMBIENT ATMOSPHERE
WO2011117799 A1	KONINKL PHILIPS ELECTRONICS NV [NL] et al.	METHOD OF CONTROLLING AN OUTDOOR LIGHTING SYSTEM, A COMPUTER PROGRAM PRODUCT, A CONTROLLING DEVICE AND AN OUTDOOR LIGHTING SYSTEM

[...ver más](#)

REDES DE SENSORES PARA DETECTAR INCENDIOS

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

WO2011146008 A1	VIRTUAL MARKET AB [SE], SVENNING CONNY [SE]	FIRE MONITORING SYSTEM
WO2011128100 A1	HOSEIT WINRICH [DE]	FIRE DETECTOR FOR MONITORING A ROOM BY MEANS OF A COMBINATION OF SMOKE DENSITY MEASUREMENT AND TEMPERATURE MEASUREMENT
WO2011128099 A1	HOSEIT WINRICH [DE]	MONITORING DEVICE FOR MONITORING A ROOM
WO2011121234 A1	FRANCE TELECOM [FR] et al.	LOCATING OF SENSORS OF A WIRELESS SENSORS NETWORK

[..ver más](#)

OTRAS REFERENCIAS

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO2011151679 A1	INDIAN INST SCIENT [IN] et al.	ENERGY HARVESTING DEVICES USING CARBON NANOTUBE (CNT)-BASED ELECTRODES
WO2011144320 A1	UNIV ALBERT LUDWIGS FREIBURG [DE]	ELECTRONIC DEVICE COMPRISING AN OPERATING MODE SWITCHING UNIT
WO2011141911 A1	PEARLS OF WISDOM ADVANCED TECHNOLOGIES LTD [IL] et al.	DISTRIBUTED SENSOR NETWORK HAVING SUBNETWORKS
WO2011139138 A1	MIMOS BERHAD [MY] et al.	METHOD OF PROVIDING MULTI ADDRESS BINDING IN A NETWORK
WO2011138008 A1	GIESECKE & DEVRIENT GMBH [DE] et al.	NETWORK NODE FOR A WIRELESS SENSOR NETWORK
WO2011137426 A2	UNIV CORNELL [US] et al.	METHODS AND APPARATUS FOR EVENT DETECTION, PROPAGATION AND LOCALIZATION USING UWB IMPULSE RADIOS
WO2011136816 A1	HEWLETT PACKARD DEVELOPMENT CO [US] et al.	DETERMINATION OF A SENSOR DEVICE LOCATION IN A SENSOR NETWORK
WO2011134852 A1	IBM [US] et al.	ADAPTIVE WIRELESS SENSOR NETWORK AND METHOD OF ROUTING DATA IN A WIRELESS SENSOR NETWORK
WO2011134435 A1	HUAWEI TECH CO LTD [CN] et al.	METHOD AND APPARATUS FOR ACCESSING WIRELESS SENSOR NETWORK
WO2011133916 A1	QUALCOMM INC [US] et al.	HYBRID TRACKING DEVICE
WO2011132190 A2	R F KEEPER LTD [IL] et al.	EVENT DRIVEN CONTEXT SWITCHING IN PASSIVE RADIO FREQUENCY IDENTIFICATION TAGS
WO2011129515 A1	KOREA ELECTRONICS TECHNOLOGY [KR] et al.	LOW POWER MAC COMMUNICATION METHOD FOR A SENSOR NETWORK BASED ON ENERGY ACQUIRED FROM THE ENVIRONMENT
WO2011128475 A1	UNIV BARCELONA AUTONOMA [ES] et al.	METHOD AND SYSTEM FOR FORMING A BEAM DISTRIBUTED IN WIRELESS NODE NETWORKS, AND WIRELESS NODE THAT CAN BE USED IN SUCH A SYSTEM
WO2011121690 A1	PANASONIC CORP [JP] et al.	COMMUNICATION APPARATUS, COMMUNICATION SYSTEM, COMMUNICATION METHOD AND INTEGRATED CIRCUIT
WO2011121388 A1	ABB RESEARCH LTD [CH] et al.	A METHOD OF SECURE MULTIPLE JOINING FOR A DEVICE TO JOIN WIRELESS SYSTEM NETWORK AND A WIRELESS DEVICE THEREOF
WO2011118987 A2	UNIV SEOUL FOUNDATION OF INDUSTRY ACADEMIC COOPERATION [KR], LEE YONG WOO [KR]	THREE-TIER UBIQUITOUS CITY SYSTEM
WO2011118985 A2	UNIV SEOUL FOUNDATION OF INDUSTRY ACADEMIC COOPERATION [KR], LEE YONG WOO [KR]	MIDDLEWARE DEVICE FOR THREE-TIER UBIQUITOUS CITY SYSTEM
WO2011116617 A1	ZTE CORP [CN], MA JINGWANG [CN]	COMBINATION NETWORK AND METHOD FOR ACCESSING NETWORK OF WIRELESS SENSOR NETWORK TERMINAL
WO2011116591 A1	ZTE CORP [CN], YU WANTAO [CN]	METHOD AND SYSTEM FOR MANAGING WIRELESS SENSOR NODES
WO2011116589 A1	ZTE CORP [CN], MA JINGWANG [CN]	COMBINATION NETWORK AND METHOD FOR WIRELESS SENSOR NETWORK TERMINAL TO JOIN IN NETWORK

WO2011116588 A1	ZTE CORP [CN], MA JINGWANG [CN]	INTEGRATED NETWORK AND METHOD FOR WIRELESS SENSOR NETWORK TERMINAL TO JOIN IN NETWORK
WO2011114877 A1	NTN TOYO BEARING CO LTD [JP] et al.	WIND FARM MONITORING SYSTEM
WO2011114152 A2	WFS TECHNOLOGIES LTD [GB] et al.	WIRELESS AUXILIARY MONITORING AND CONTROL SYSTEM FOR AN UNDERWATER INSTALLATION
WO2011113269 A1	ZTE CORP [CN], MA JINGWANG [CN]	METHOD AND SYSTEM FOR MANAGING WIRELESS SENSOR NETWORK
WO2011113262 A1	ZTE CORP [CN], MA JINGWANG [CN]	ACCESS METHOD AND SYSTEM FOR WIRELESS SENSOR NETWORK