Boletín VT

REDES DE SENSORES INALÁMBRICAS

13

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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 mas 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:

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
WO2013020559 A1	WEBSTECH APS [DK] et al.	AGRICULTURAL PRODUCT CONTAINING AND CONDITIONING SYSTEM
WO2013016603 A1	DOW AGROSCIENCES LLC [US] et al.	PLANT GROWTH KINETICS CAPTURED BY MOTION TRACKING
WO2013020825 A1	FOERSTER TECHNIK GMBH [DE] et al.	DEVICE HAVING A SENSOR FOR MEASURING A VITAL VALUE IN AN ANIMAL
WO2013006921 A1	SOUTH AUSTRALIAN NO TILL FARMERS ASS INC [AU], BUTLER GREGORY [AU]	WEED PRUNER
WO2013003892 A1	COMMW SCIENT IND RES ORG [AU] et al.	SYSTEM, METHOD AND DEVICE FOR MEASURING A GAS IN THE STOMACH OF A MAMMAL
WO2013000028 A1	EDITH COWAN UNIVERSITY [AU], OSSEIRAN ADAM [AU]	ACTIVE PROBE, SYSTEM AND METHOD FOR PEST DETECTION
WO2012173502 A1	KAHNE LTD [NZ] et al.	SYSTEM AND METHOD FOR IN-RUMEN MONITORING
WO2012174270 A1	CAMBRIAN INNOVATION INC [US] et al.	BIOLOGICAL OXYGEN DEMAND SENSORS
WO2012172538 A1	MOTTES ADI [IL]	PROBE FOR MONITORING THE ELECTRICAL CONDUCTIVITY OF SOIL SOLUTIONS
WO2012170248 A1	3M INNOVATIVE PROPERTIES CO [US] et al.	HUMIDITY SENSOR AND SENSOR ELEMENT THEREFOR

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REDES DE SENSORES PARA ENTORNOS URBANOS O PÚBLICOS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO2013019135 A2	ISTREETLIGHT DOO BEOGRAD [RS]	MULTISENSOR INTELLIGENT STREET LIGHT WITH COMPLETE SYSTEM
WO2013034872 A2	ELECTRIC CAR CHARGING COMPANY LTD [GB], LIMPKIN ALAN [GB]	AN IMPROVED LAMP COLUMN
WO2013030779 A1	KONINKL PHILIPS ELECTRONICS NV [NL] et al.	DEVICE AND METHOD FOR CONTROLLING A NODE OF A WIRELESS NETWORK
WO2013030765 A2	KONINKL PHILIPS ELECTRONICS NV [NL] et al.	CONTROL UNIT AND METHOD FOR MANAGING MULTICAST GROUPS IN A WIRELESS NETWORK
WO2013028916 A1	POWERLEAP INC [US], REDMOND ELIZABETH [US]	FLOORING SYSTEM AND FLOOR TILE
WO2013030715 A1	KONINKL PHILIPS ELECTRONICS NV [NL] et al.	DEVICE FOR CONTROLLING COMMUNICATION OF A NODE IN A WIRELESS NETWORK
WO2013025867 A1	ALBERT HREISH TRUST G [US]	COMBINATION LAMP AND WIRELESS NETWORK ACCESS SYSTEM
WO2013021403 A2	CAICO GIOVANNI [IT]	MODULAR ELECTRONICALLY AUTOMATED SYSTEM FOR SAFETY OF TRAFFIC ON THE URBAN AND EXTRA-URBAN ROAD NETWORKS
WO2013014613 A1	WORLDSENSING S L [ES] et al.	SENSOR MODULE FOR GROUND AND SYSTEM PROVIDING A PLURATY OF THESE
WO2013011379 A2	KING ABDULLAH UNIVERSITY OF SCIENCE AND TECHNOLOGY [SA], CLAUDEL CHRISTIAN [SA]	APPARATUS, SYSTEM, AND METHOD FOR ROADWAY MONITORING - (A3) APPARATUS, SYSTEM AND METHOD FOR MONITORING TRAFFIC AND ROADWAY WATER CONDITIONS
WO2012174494 A1	YELIN ROBERT [US], AGAM SHRAGA [US]	SYSTEM FOR MEASUREMENT OF GREENHOUSE GAS GENERATION FROM FUEL COMBUSTION
WO2012172470 A1	KONINKL PHILIPS ELECTRONICS NV [NL] et al.	ADAPTIVE CONTROLLED OUTDOOR LIGHTING SYSTEM AND METHOD OF OPERATION THEREOF
WO2013000686 A2	SIEMENS AG [DE] et al.	LEAK DETECTION BY MEANS OF A STOCHASTIC MASS BALANCE
WO2012168898 A1	KONINKL PHILIPS ELECTRONICS NV [NL] et al.	AVOIDANCE OF HOSTILE ATTACKS IN A NETWORK
WO2012168888 A1	KONINKL PHILIPS ELECTRONICS NV [NL] et al.	SECURE DATA TRANSMISSION TO NETWORK NODES IN A NETWORK
WO2012168838 A1	KONINKL PHILIPS ELECTRONICS NV [NL] et al.	SECURE PROTOCOL EXECUTION IN A NETWORK

WO2013002907 A1	AT & T IP I LP [US], HALL ROBERT J [US]	INFORMATION ACQUISITION USING A SCALABLE WIRELESS GEOCAST PROTOCOL
WO2013015795 A1	HEWLETT PACKARD DEVELOPMENT CO [US] et al.	DATA EXCHANGE WITH A MOBILE DOCKING STATION

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REDES DE SENSORES PARA DETECTAR INCENDIOS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO2013041483 A2	BOSCH GMBH ROBERT [DE] et al.	FIRE DETECTOR WITH SENSOR ARRAY
WO2013029093 A1	ORION SAFETY IND PTY LTD [AU], MEYER DAVID JEFFREY [AU]	FIRE MONITOR POSITION SENSING SYSTEM
WO2013030497 A1	NOVELTIS [FR], BRU RICHARD [FR]	DEVICE ALLOWING THE EARLY DETECTION OF THE BEGINNING OF FOREST FIRES
WO2013025526 A1	MUELLER INTERNATIONAL LLC [US] et al.	FIRE HYDRANT LEAK DETECTOR
WO2013007902 A1	FINSECUR SA [FR] et al.	FIRE EXTINGUISHING DEVICE FOR A SECURITY SYSTEM
WO2013007901 A1	FINSECUR SA [FR] et al.	EXTINGUISHER IDENTIFYING METHOD AND EXTINGUISHER IDENTIFYING DEVICE
WO2013014561 A1	SHUSTROV SERGEI VLADIMIROVICH [RU], SHUSTROV VLADIMIR ALEXANDROVICH [RU]	PULSE-OPERATED SMOKE DETECTOR WITH DIGITAL CONTROL UNIT
WO2012167858 A1	ISTA INTERNAT GMBH [DE] et al.	SMOKE ALARM AND METHOD FOR OPERATING SAME
WO2013012445 A1	MINE SAFETY APPLIANCES CO [US] et al.	USER NAVIGATION GUIDANCE AND NETWORK SYSTEM
WO2013009215 A1	JOINT STOCK COMPANY ENGINEERING CT OF FIRE ROBOTS TECHNOLOGY FR [RU], GORBAN YURY IVANOVICH [RU]	AN AUTOMATED FIRE - FIGHTING INSTALLATION WITH A FULL- PROCESS CONTROL SYSTEM

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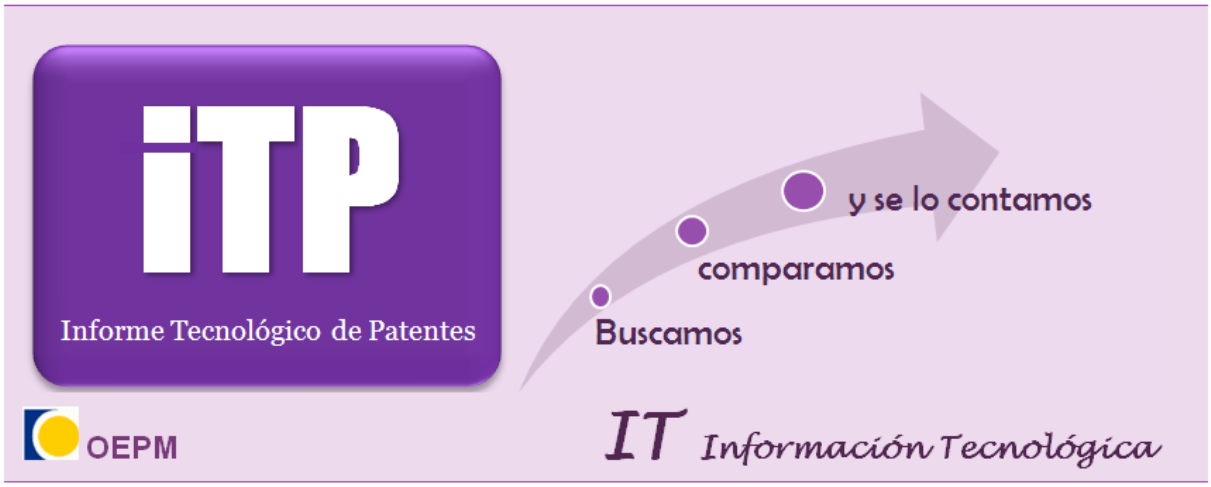
OTRAS REFERENCIAS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO2013039468 A1	HEWLETT PACKARD DEVELOPMENT CO [US] et al.	CONFIGURABLE SENSOR ARRAYS
WO2013039700 A1	QUALCOMM INC [US] et al.	METHOD AND APPARATUS FOR SEAMLESS POSITIONING TRANSITION BETWEEN DISSIMILAR REGIONS
WO2013026932 A1	SMYTH EAMON [GB]	AN APPARATUS AND METHOD FOR PREVENTING SOLAR OVERHEATING
WO2013024416 A1	SUEZ ENVIRONNEMENT [FR], FARNIER ERIC [FR]	TRANSMISSION METHOD FOR REMOTE READING OF FLUID METERS
WO2013022983 A1	LEE JAESIK [US], LEE INSEOP [US]	METHOD AND DEVICE FOR WIRELESS BROADCAST POWER-UP SEQUENCE IN WIRELESS SENSOR NETWORK
WO2013023660 A1	VESTAS WIND SYS AS [DK] et al.	ACOUSTIC NOISE MONITORING SYSTEM FOR A WIND TURBINE
WO2013022865 A1	ECONOMY POLYMERS & CHEMICALS [US] et al.	SYSTEM EFFECTIVE TO MONITOR AN AMOUNT OF CHEMICALS IN PORTABLE CONTAINER
WO2013023955 A2	TRIDONIC GMBH & CO KG [AT] et al.	ANALYSIS AND ADDRESS ALLOCATION OF WIRELESS BUILDING NETWORKS
WO2013006689 A1	CISCO TECH INC [US] et al.	TRANSMISSION PRIORITY PATHS IN MESH NETWORKS
WO2013007925 A1	LETSACT [FR], CASTELLANET FREDERIC [FR]	DEVICE FOR MONITORING A PHOTOVOLTAIC FACILITY
WO2013001550 A1	K RAVINDRA SHETTY [IN] et al.	METHOD AND SYSTEM FOR EFFICIENT POWER MANAGEMENT OF DEVICES
WO2013003517 A2	BAE SYS INF & ELECT SYS INTEG [US] et al.	METHODS AND SYSTEMS FOR DETECTING GPS SPOOFING ATTACKS
WO2013002256 A1	MITSUBISHI HEAVY IND LTD [JP] et al.	OPERATION MONITORING SYSTEM, OPERATION MONITORING METHOD, AND PROGRAM
WO2012174170 A1	BOEING CO [US] et al.	RECONFIGURABLE NETWORK-ENABLED PLUG-AND-PLAY MULTI-FUNCTIONAL PROCESSING AND SENSING NODE
WO2012174141 A2	GRIDPOINT INC [US] et al.	VALUATING ENERGY MANAGEMENT SYSTEMS
WO2012175933 A1	GASSECURE AS [NO] et al.	WIRELESS SENSOR NETWORKS
WO2013003020 A2	ROSEMOUNT INC [US] et al.	INTEGRAL THERMOELECTRIC GENERATOR FOR WIRELESS DEVICES

WO2013012168 A1	JUNG HYUN-CHUL [KR]	METHOD FOR PROVIDING ENVIRONMENT MONITORING SERVICE USING SERVER ON INTERNET
WO2012170344 A2	UNIV FLORIDA [US], UDELL CHESTER JAMES [US]	MODULAR WIRELESS SENSOR NETWORK FOR MUSICAL INSTRUMENTS AND USER INTERFACES FOR USE THEREWITH
WO2013011189 A1	NOKIA CORP [FI] et al.	METHOD, APPARATUS, AND COMPUTER PROGRAM PRODUCT FOR WIRELESS NETWORK DISCOVERY BASED ON GEOGRAPHICAL LOCATION
WO2013031314 A1	HITACHI INT ELECTRIC INC [JP], ISHIZAKI MASAYUKI [JP]	WIRELESS SENSOR NETWORK SYSTEM
WO2013009355 A1	INTEL CORP [US], TARRADELL MARTA MARTINEZ [US]	REPORTING POWER DISRUPTIONS OF MACHINE-TO-MACHINE DEVICES
WO2013026468 A1	ABB RESEARCH LTD [CH] et al.	A METHOD AND NETWORK FOR REDUCING INTERFERENCE IN A WIRELESS NETWORK
WO2013028157 A1	UNIV CORNELL [US] et al.	SYSTEM AND METHODS FOR REMOTE MONITORING
WO2013007013 A1	SHENZHEN E MANX TECHNOLOGY CO LTD [CN] et al.	NONINFRASTRUCTURE-BASED PERIPHERAL SURVEILLANCE SYSTEM OF WIRELESS SENSOR NETWORK
WO2013000148 A1	RENESAS MOBILE CORP [JP] et al.	METHOD AND APPARATUS FOR IMPROVED WIRELESS SENSOR NETWORK INTERACTIONS
WO2012171586 A1	ABB RESEARCH LTD [CH] et al.	CONTENTION BASED ACCESS OF RESOURCES IN A WIRELESS NETWORK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