

Boletín VT

REDES DE SENSORES INALÁMBRICAS

18

2.º trimestre 2014

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

WO 2014067897 A1 20140508	GEA FARM TECHNOLOGIES GMBH	A SYSTEM AND A METHOD FOR REAL TIME DETECTION OF THE POSITION AND BEHAVIOUR OF A PLURALITY OF ANIMALS
WO 2014077678 A1 20140522	LELY PATENT NV	NETWORK EXPANSION METHOD FOR A BLUETOOTH NETWORK
WO 2014081072 A1 20140530	KOREA ELECTRONICS TECHNOLOGY	BODY INSERTION-TYPE SENSOR TAG-BASED LIVESTOCK RECORD MANAGEMENT SYSTEM
WO 2014073783 A1 20140515	DAEGU GYEONGBUK INST SCIENCE	SYSTEM FOR MONITORING PLANT GROWTH
WO 2014082036 A1 20140530	ELWHA LLC	SYSTEM FOR FACILITATING CLOUD FORMATION AND CLOUD PRECIPITATION
WO 2014078960 A1 20140530	JOHNSTON ROBIN	SYSTEM AND METHOD FOR MONITORING FARM RELATED EQUIPMENT
WO 2014052697 A1 20140403	AGCO CORP	REAL TIME SENSING OF FIELD PESTS
WO 2014067896 A1 20140508	GEA FARM TECHNOLOGIES GMBH	COMPUTER SYSTEM FOR MEASURING REAL TIME POSITION OF A PLURALITY OF ANIMALS
WO 2014058081 A1 20140417	YUYANG DNU CO LTD	SYSTEM AND METHOD FOR CULTIVATING PLANT USING LED LIGHTING, LED LIGHTING DEVICE FOR PLANT CULTIVATION AND METHOD FOR DRIVING SAID DEVICE
WO 2014066849 A1 20140501	CDS JOHN BLUE COMPANY	LIQUID BLOCKAGE MONITORING SYSTEM AND METHOD
WO 2014044868 A1 20140327	HELIOSPECTRA AB	SPECTRUM OPTIMIZATION FOR ARTIFICIAL ILLUMINATION
WO 2014037936 A1 20140313	ISRAEL STATE	SYSTEM FOR AUTOMATIC TRAPPING AND COUNTING OF FLYING INSECTS
WO 2014030280 A1 20140227	PANASONIC CORP	AGRICULTURAL HOUSING

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REDES DE SENSORES PARA ENTORNOS URBANOS O PÚBLICOS

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2014078854 A1 20140522	EXPRESS IMAGING SYSTEMS LLC	LUMINAIRE WITH AMBIENT SENSING AND AUTONOMOUS CONTROL CAPABILITIES
WO 2014085282 A1 20140605	MOTOROLA MOBILITY LLC	DELIVERING DATA TO A WIRELESS STATION
WO 2014067935 A1 20140508	ATS GROUP IP HOLDINGS LTD	SYSTEM AND METHOD FOR SELECTING SENSORS IN SURVEILLANCE APPLICATIONS
WO 2014079586 A1 20140530	ENEVO OY	SMART WASTE COLLECTION SYSTEM AND METHOD
WO 2014099095 A1 20140626	GEN ELECTRIC	ANTENNA SENSOR, LAMP INCLUDING SAME, AND METHOD OF RETROFITTING SAME
WO 2014078907 A1 20140530	300K ENTPR PTY LTD	INTELLIGENT LAMP FITTING
WO 2014083340 A1 20140605	IMP INNOVATIONS LTD	A DEVICE, METHOD AND SYSTEM FOR MONITORING A NETWORK OF FLUID-CARRYING CONDUITS
WO 2014083733 A1 20140605	NEC CORP	INFORMATION DISTRIBUTION SYSTEM, SERVICE CONTROL DEVICE, GATEWAY DEVICE, CONTROL METHOD, AND NON-TRANSITORY COMPUTER-READABLE MEDIUM
WO 2014084832 A2 20140605	UNITED TECHNOLOGIES CORP	COMFORT ESTIMATION AND INCENTIVE DESIGN FOR ENERGY EFFICIENCY
WO 2014075715 A1 20140522	ERICSSON TELEFON AB L M	METHOD, NETWORK AND NETWORK ENTITY FOR PROVIDING INFORMATION OF COMMUNICATION DEVICES CLOSE TO A LOCATION OF AN EVENT
WO 2014043209 A1 20140320	UNIV WASHINGTON CT COMMERCIALI	SENSOR NODES, APPARATUSES, AND METHODS FOR WIRELESSLY TRANSMITTING DATA TO A POWER INFRASTRUCTURE
WO 2014072902 A1 20140515	SUEZ ENVIRONNEMENT	INTELLIGENT NETWORK FOR COMMUNICATING DATA BY RADIO, IN PARTICULAR FOR THE REMOTE READING OF FLUID METERS
WO 2014081438 A1 20140530	HEWLETT PACKARD DEVELOPMENT CO	SENSOR TRANSPORT
WO 2014063086 A2 20140424	MICROSOFT CORP	ENERGY MANAGEMENT BY DYNAMIC FUNCTIONALITY PARTITIONING
WO 2014068911 A1 20140508	PANASONIC CORP	LIGHTING FIXTURE
WO 2014049849 A1 20140403	DAIWA HOUSE IND	INTERIOR SENSOR NETWORK BUILDING DEVICE AND METHOD
WO 2014063121 A1 20140424	MCAFFEE INC	PERSONAL SAFETY AND EMERGENCY SERVICES
WO 2014066429 A1 20140501	FIORUCCI JEAN-LOUIS	APPARATUS AND METHODS FOR PROVIDING CITY SERVICES
WO 2014066948 A1 20140508	METAROVE PTY LTD	MONITORING METHOD AND SYSTEM
WO 2014068376 A1 20140508	C R D CT RICERCH E DUCATI TRENTO S R L	SYSTEM AND METHOD FOR MONITORING ATMOSPHERIC POLLUTION
WO 2014066764 A1 20140501	MUELLER INT LLC	DETECTING LEAKS IN A FLUID DISTRIBUTION SYSTEM
WO 2014068665 A1 20140508	HITACHI LTD	COMMUNICATION SYSTEM AND METHOD FOR CHANGING OVER NETWORK TO WHICH TERMINALS ARE TO BELONG
WO 2014071114 A2 20140508	FAIRFIELD IND INC	LAND BASED UNIT FOR SEISMIC DATA ACQUISITION
WO 2014043413 A1 20140320	PARTICLES PLUS INC	THERMOSTAT WITH INTEGRATED PARTICLE SENSOR
WO 2014047628 A2 20140327	PETRA SOLAR INC	DISTRIBUTED STREET LIGHTS ENERGY REMOTE MONITORING, COMMAND AND CONTROL
WO 2014041092 A1 20140320	STUDIONUM	CREATING AND USING ACCESS ZONES FOR DELIVERING CONTENT
WO 2014063184 A1 20140501	XORRO PTY LTD	DISTRIBUTED MONITORING SYSTEM AND WASTE MANAGEMENT SYSTEM AND METHOD

WO 2014045699 A1 20140327	IBM	SENSOR SHARE CONTROL DEVICE, METHOD, AND COMPUTER PROGRAM
WO 2014047658 A2 20140327	GEN INSTRUMENT CORP	METHODS AND APPARATUS FOR CONTROLLING A WIRELESS STATION

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REDES DE SENSORES PARA DETECTAR INCENDIOS

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

WO 2014092769 A1 20140619	INTEL CORP	SENSOR HIERARCHY
WO 2014052196 A1 20140403	SIEMENS INDUSTRY INC	SYSTEM AND METHOD FOR FAIL-SAFE COMMUNICATION ACROSS A COMPROMISED COMMUNICATION CHANNEL OF A NETWORK DEVICE
WO 2014076657 A1 20140522	UNIV MILITAR NUEVA GRANADA	INTELLIGENT WARNING DEVICE FOR EARTHQUAKES AND FIRES IN BUILDINGS
WO 2014044675 A1 20140327	BOSCH GMBH ROBERT	EVALUATION DEVICE FOR A SURVEILLANCE SYSTEM AND SURVEILLANCE SYSTEM HAVING SAID EVALUATION DEVICE
WO 2014066405 A1 20140501	BOUNCE IMAGING INC	REMOTE SURVEILLANCE SENSOR APPARATUS
WO 2014057256 A1 20140417	THORN SECURITY	INTERFACE CIRCUIT FOR DISTRIBUTED FIRE ALARM IN LOOP CONFIGURATION
WO 2014041754 A1 20140320	PANASONIC CORP	WIRELESS COMMUNICATION SYSTEM
WO 2014059479 A1 20140424	XTRALIS TECHNOLOGIES LTD	ADDRESSABILITY IN PARTICLE DETECTION
WO 2014047501 A1 20140327	NEST LABS INC	DEVICES, METHODS, AND ASSOCIATED INFORMATION PROCESSING FOR THE SMART-SENSORED HOME
WO 2014052814 A1 20140403	NUMEREX CORP	METHOD AND SYSTEM FOR COMMUNICATING WITH AN ALARM SYSTEM
WO 2014041755 A1 20140320	PANASONIC CORP	WIRELESS COMMUNICATION SYSTEM
WO 2014041767 A1 20140320	PANASONIC CORP	WIRELESS COMMUNICATION SYSTEM
WO 2014042927 A1 20140320	BAE SYS INF & ELECT SYS INTEG	FACE MOUNTED EXTREME ENVIRONMENT THERMAL SENSOR SYSTEM
WO 2014067062 A1 20140508	HU WEI	SELF-LUMINOUS FIRE-MONITORING SPRINKLER
WO 2014039003 A1 20140313	APR TECHNOLOGIES AB	SENSOR NETWORK INCLUDING SENSOR CABLE
WO 2014056159 A1 20140417	BROADCOM CORP	SYSTEM AND METHOD OF WSN-ASSISTED LOCATION SERVICES
WO 2014065389 A1 20140501	SEMICONDUCTOR ENERGY LAB	CENTRAL CONTROL SYSTEM
WO 2014046803 A2 20140327	BOEING CO	FORESTRY MANAGEMENT SYSTEM
WO 2014037520 A1 20140313	AMRONA AG	DEVICE AND METHOD FOR DETECTING SCATTERED LIGHT SIGNALS
WO 2014041763 A1 20140320	PANASONIC CORP	WIRELESS COMMUNICATION SYSTEM
WO 2014047574 A2 20140327	TYCO FIRE PRODUCTS LP	FIRE SUPPRESSION SYSTEMS AND METHODS

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OTRAS REFERENCIAS

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2014084941 A1 20140605	IBM	ANALYTICS FOR OPTIMIZING USAGE OF COOLING SUBSYSTEMS
WO 2014086486 A2 20140612	STORK GENANNT WERSBORG INGO	HEAT TREATMENT MONITORING SYSTEM
WO 2014089699 A1 20140619	BLACKBERRY LTD	COMMUNICATING ENCODED TRAFFIC DATA
WO 2014052733 A1 20140403	CISCO TECH INC	TRAFFIC-BASED QUALITY OF SERVICE (QOS) MONITORING IN HIGHLY CONSTRAINED NETWORKS
WO 2014068151 A1 20140508	UNDEROCEANS MARINE INNOVATION S L	INDIVIDUAL MULTIFUNCTIONAL MODULE COMPRISING SENSORS, FOR BUILDING AN ARTIFICIAL REEF
WO 2014084491 A1 20140605	KOREA ELECTRONICS TECHNOLOGY	METHOD AND SYSTEM FOR SETTING PATH FOR EFFICIENT MULTIMEDIA DATA TRANSMISSION IN SENSOR NETWORK
WO 2014087040 A1 20140612	MENUMAT OY	ARRANGEMENT AND METHOD FOR NUTRITION AND CARE SERVICES
WO 2014075724 A1 20140522	NEMOR TECHNOLOGIES OÜ	UNIT AND METHOD FOR OPTICAL NON-CONTACT OIL DETECTION
WO 2014078676 A2 20140522	INTERDIGITAL PATENT HOLDINGS	CHANNEL EVACUATION PROCEDURES FOR WIRELESS NETWORKS DEPLOYED IN DYNAMIC SHARED SPECTRUM
WO 2014081949 A2 20140530	MOTOROLA MOBILITY LLC	LOW POWER MANAGEMENT OF MULTIPLE SENSOR INTEGRATED CHIP ARCHITECTURE
WO 2014090658 A1 20140619	BAYERISCHE MOTOREN WERKE AG	ASSIGNING TIME STAMPS TO RECEIVED DATA PACKETS
WO 2014063754 A1 20140501	HUAWEI TECH CO LTD	AUDIO ENHANCEMENT SYSTEM
WO 2014076171 A1 20140522	LITEHAUZ APS	A METHOD AND SYSTEM FOR MONITORING QUALITY OF BALLAST WATER OF A VESSEL
WO 2014055584 A1 20140410	BORKHOLDER DAVID A	SYSTEMS AND METHODS FOR MAPPING AN EXPLOSIVE EVENT
WO 2014055486 A1 20140410	COOPER TECHNOLOGIES CO	SYSTEM AND METHOD FOR SUPPORT OF ONE-WAY ENDPOINTS IN TWO-WAY WIRELESS NETWORKS
WO 2014060903 A1 20140424	KONINKL PHILIPS NV	OCCUPANCY DETECTION METHOD AND SYSTEM
WO 2014061369 A1 20140424	NAT INST OF ADVANCED IND SCIEN	SENSOR NETWORK SYSTEM
WO 2014070853 A1 20140508	CISCO TECH INC	FAST FREQUENCY-HOPPING SCHEDULE RECOVERY
WO 2014049799 A1 20140403	FUJITSU LTD	COMMUNICATION APPARATUS, COMMUNICATION METHOD, COMMUNICATION PROGRAM, AND COMMUNICATION SYSTEM
WO 2014050055 A1 20140403	ALPS ELECTRIC CO LTD	WIRELESS SENSOR DEVICE
WO 2014053152 A1 20140410	ABB RESEARCH LTD	PACKET PRIORITIZING IN AN INDUSTRIAL WIRELESS NETWORK
WO 2014055400 A1 20140410	NEC LAB AMERICA INC	NETWORK MANAGEMENT
WO 2014047250 A1 20140327	GOOGLE INC	DETECTING ROAD WEATHER CONDITIONS
WO 2014049408 A2 20140403	JEAN GREGORY	DEVICE FOR PREDICTING EARTHQUAKES AND VOLCANIC ERUPTIONS, AND FOR LOCATING EPICENTRES AND MAGNITUDES BY MEASURING THE RADON IN THE SOIL
WO 2014051789 A1 20140403	INTEL CORP	MOBILE DEVICE BASED ULTRA-VIOLET (UV) RADIATION SENSING
WO 2014065840 A1 20140501	ALPINE REPLAY INC	DISTRIBUTED SYSTEMS AND METHODS TO MEASURE AND PROCESS SPORT MOTIONS
WO 2014088961 A2 20140612	BOSCH GMBH ROBERT	MULTI-TONE WAKEUP MECHANISM FOR A WIRELESS NETWORK

WO 2014037049 A1 20140313	ERICSSON TELEFON AB L M	CONFIGURING A SENSOR DEVICE
WO 2014066126 A2 20140501	SCHLUMBERGER CA LTD	SYSTEMS AND METHODS FOR COLLECTING ONE OR MORE MEASUREMENTS AND/OR SAMPLES
WO 2014066852 A2 20140501	MARKLE BRINTON J W	METHODS, APPARATUS AND SYSTEMS FOR MEASURING SNOW STRUCTURE AND STABILITY
WO 2014043761 A1 20140327	UNIV SOUTH AUSTRALIA	MULTI-ACCESS COMMUNICATION SYSTEM
WO 2014042508 A1 20140320	UNIV SAINS MALAYSIA	WIRELESS PRODUCTION MONITORING SYSTEM
WO 2014044610 A1 20140327	SIEMENS AG	SENSOR, SENSOR NETWORK, SEAT AND METHOD FOR THE DETECTION OF TRAIN SEAT OCCUPANCIES
WO 2014042742 A1 20140320	INTEL CORP	PERSONAL AREA MAPPING
WO 2014057651 A1 20140417	ALPS ELECTRIC CO LTD	WIRELESS SENSOR
WO 2014064533 A2 20140501	UNIV KING ABDULLAH SCI & TECH	AN IMPROVED CHANNEL ASSESSMENT SCHEME

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