

Boletín VT

REDES DE SENSORES INALÁMBRICAS

16

4.º trimestre 2013

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 2013181558 A1 20131205	AGERPOINT INC	SYSTEMS AND METHODS FOR MONITORING AGRICULTURAL PRODUCTS
WO 2013160241 A1 20131031	BASF SE	METHOD AND SYSTEM FOR EXTRACTING BUDS FROM A STALK OF A GRAMINACEOUS PLANT
WO 2013137717 A1 20130919	LELY PATENT NV	Milking machine and a method of operating such a milking machine
WO 2013158562 A1 20131024	QUALCOMM INC	SYSTEMS, METHODS, AND APPARATUS FOR MACHINE TO MACHINE DEVICE TRIGGERING
WO 2013136203 A1 20130919	DELTA PROGETTI S R L	A SEEDING GROUP AND A METHOD FOR ACTUATING A SEEDING GROUP
WO 2013173345 A1 20131121	BIOGLOW LLC	BIOSENSORS
WO 2013167466 A2 20131114	NXP BV	INTEGRATED CIRCUIT WITH DIRECTIONAL LIGHT SENSOR, DEVICE INCLUDING SUCH AN IC AND METHOD OF MANUFACTURING SUCH AN IC
WO 2013168097 A1 20131114	UNIV SANTIAGO CHILE	EQUIPMENT AND METHOD TO DETERMINE THE PERMEABILITY OF FRUIT CUTICLES IN VIVO
WO 2013168840 A1 20131114	CMG TECHWIN CO LTD	SYSTEM FOR MANAGEMENT OF PLANT CULTIVATION IN MOBILE APPLICATION ENVIRONMENT
WO 2013148254 A1 20131003	DOW AGROSCIENCES LLC	LIGHTING SYSTEM
WO 2013176975 A1 20131128	SYNGENTA PARTICIPATIONS AG	CONTINUOUSLY CALIBRATING CHEMIGATION INJECTION UNIT
WO 2013147583 A1 20131003	SIRIM BERHAD	SOLAR-POWERED CONTROLLER SYSTEM FOR AQUACULTURE APPLICATIONS
WO 2013122753 A1 20130822	LEADING EDGE IND INC	LOAD FILL SENSOR SYSTEM FOR GRAIN TRAILERS

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REDES DE SENSORES PARA ENTORNOS URBANOS O PÚBLICOS

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

WO 2013177542 A1 20131128	MUELLER INT LLC	POSITION INDICATOR FOR VALVES
WO 2013136100 A2 20130919	BUDAPESTI MUESZAKI ES GAZDASAGTUDOM ANYI EGYETEM	MEASURING APPARATUS AND MEASURING SYSTEM FOR MEASURING AND PROCESSING ENVIRONMENTAL CONDITIONS OF A GIVEN REGION
WO 2013150349 A1 20131010	BUDAPESTI MUSZAKI ES GAZDASAGTUDOM ANYI EGYETEM	A METHOD AND SYSTEM FOR SOURCE SELECTIVE REAL-TIME MONITORING AND MAPPING OF ENVIRONMENTAL NOISE
WO 2013151524 A1 20131010	HALLIBURTON ENERGY SERV INC	VSP SYSTEMS AND METHODS REPRESENTING SURVEY DATA AS PARAMETERIZED COMPRESSION, SHEAR, AND DISPERSIVE WAVE FIELDS
WO 2013151908 A1 20131010	VISWANATHAN MAHESH	EXTENSIBLE NETWORKED MULTI-MODAL ENVIRONMENT CONDITIONING SYSTEM
WO 2013159833 A1 20131031	SCHREDER	LUMINAIRE CONTROLLERS
WO 2013171798 A1 20131121	FUJITSU LTD	GATEWAYS AND EARTHQUAKE DETECTION METHOD
WO 2013159778 A1 20131031	SL HOLDING KOLDING APS	TEMPERATURE-CONTROLLED WINDOW AND METHOD OF CONTROLLING THEREOF
WO 2013160475 A1 20131031	VETCO GRAY CONTROLS LTD	WIRELESS SUBSEA SEISMIC SENSOR AND DATA COLLECTION METHODS
WO 2013152174 A1 20131010	INOVA LTD	DEVICES AND SYSTEMS FOR CONTROLLING HARMONIC DISTORTION IN SEISMIC SOURCES
WO 2013153845 A1 20131017	OMRON TATEISI ELECTRONICS CO	VIBRATION ENERGY DETECTION APPARATUS AND VIBRATION ENERGY DETECTION SYSTEM
WO 2013129718 A1 20130906	KOREA ELECTRONICS TECHNOLOGY	METHOD FOR IMPLEMENTING WEATHER INFORMATION THROUGH LINK BETWEEN REAL WORLD AND VIRTUAL WORLD, VIRTUAL WORLD IMPLEMENTATION DEVICE THEREFOR, AND RECORDING MEDIUM
WO 2013140279 A1 20130926	KONINKL PHILIPS NV	A SYSTEM AND METHOD FOR CREATING INTELLIGENT ENERGY BILLING
WO 2013163131 A1 20131031	WESTERNGECO LLC	ATTENUATING NOISE ACQUIRED IN AN ENERGY MEASUREMENT
WO 2013164726 A2 20131107	KONINKL PHILIPS NV	METHODS FOR ADAPTIVELY CONTROLLING LIGHTING BASED UPON TRAFFIC IN AN OUTDOOR LIGHTING NETWORK

<u>WO 2013167165 A1</u> <u>20131114</u>	NOKIA SIEMENS NETWORKS OY	UTILITY METER BOX
<u>WO 2013130268 A1</u> <u>20130906</u>	ANALYTICAL INSTR SYSTEMS INC	WEB-BASED MULTI-SENSOR/INSTRUMENT CONTROL SYSTEM
<u>WO 2013141792 A1</u> <u>20130926</u>	WINGREN TORD	IMPROVED LIGHT CONTROL SYSTEM
<u>WO 2013162862 A1</u> <u>20131031</u>	IBM	SYSTEM, METHOD AND PROGRAM PRODUCT FOR PROVIDING POPULACE MOVEMENT SENSITIVE WEATHER FORECASTS
<u>WO 2013145951 A1</u> <u>20131003</u>	TOSHIBA KK	SOCIAL-INFRASTRUCTURE CONTROL SYSTEM, SERVER, CONTROL DEVICE, CONTROL METHOD, AND PROGRAM
<u>WO 2013172088 A1</u> <u>20131121</u>	TOSHIBA KK	SOCIAL INFRASTRUCTURE CONTROL SYSTEM, CONTROL METHOD, CONTROL DEVICE, AND SERVER
<u>WO 2013158866 A1</u> <u>20131024</u>	SCHNEIDER ELECTRIC BUILDINGS LLC	ASSOCIATION OF A PORTABLE SENSOR DEVICE IN A BUILDING MANAGEMENT SYSTEM
<u>WO 2013165777 A1</u> <u>20131107</u>	ABL IP HOLDING LLC	NETWORKED ARCHITECTURE FOR SYSTEM OF LIGHTING DEVICES HAVING SENSORS, FOR INTELLIGENT APPLICATIONS
<u>WO 2013168156 A1</u> <u>20131114</u>	AMAR RONI	ELECTRICITY/POWER METERING SYSTEM AND METHOD
<u>WO 2013164740 A1</u> <u>20131107</u>	KONINKL PHILIPS NV	STREETWISE NAVIGATION SYSTEM USING INFRASTRUCTURE ELEMENTS
<u>WO 2013165532 A1</u> <u>20131107</u>	BATTELLE MEMORIAL INSTITUTE	METHOD AND SYSTEM FOR MANAGING POWER GRID DATA
<u>WO 2013149970 A2</u> <u>20131010</u>	CGG SERVICES SA	MARINE ACQUISITION USING SUBAQUATIC FLOATING SEISMIC NODES

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REDES DE SENSORES PARA DETECTAR INCENDIOS

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

WO 2013180016 A1 20131205	SEMICONDUCTOR ENERGY LAB	SEMICONDUCTOR DEVICE AND ALARM DEVICE
WO 2013177132 A1 20131128	L LIVERMORE NAT SECURITY LLC	BATTERY MANAGEMENT SYSTEM WITH DISTRIBUTED WIRELESS SENSORS
WO 2013136243 A2 20130919	ERICSSON TELEFON AB L M	GROUP OPERATIONS IN MACHINE-TO-MACHINE NETWORKS USING A SHARED IDENTIFIER
WO 2013158653 A1 20131024	QUALCOMM INC	USING A MOBILE DEVICE TO ENABLE ANOTHER DEVICE TO CONNECT TO A WIRELESS NETWORK
WO 2013159001 A1 20131024	NUMEREX CORP	SYSTEM AND METHOD FOR USING ALARM SYSTEM ZONES FOR REMOTE OR MOBILE OBJECTS
WO 2013181596 A1 20131205	ENGINEERED CORROSION SOLUTIONS LLC	ELECTRICALLY OPERATED GAS VENTS FOR FIRE PROTECTION SPRINKLER SYSTEMS AND RELATED METHODS
WO 2013142962 A1 20131003	TYCO SAFETY PROD CANADA LTD	ANTI-TAMPER SYSTEMS AND METHODS
WO 2013157919 A1 20131024	PYROGEN MFG SDN BHD	FIRE EXTINGUISHING SYSTEM WITH ENHANCED RELIABILITY
WO 2013135573 A1 20130919	SECURITAS DIRECT AB	METHOD AND APPARATUS FOR CONTROLLING A HOME WIRELESS SYSTEM
WO 2013155429 A1 20131017	SCHLAGE LOCK COMPANY LLC	METHODS AND SYSTEMS FOR A SECURITY SURVEILLANCE SYSTEM WITH AN IMAGING DEVICE
WO 2013152883 A1 20131017	BOSCH GMBH ROBERT	INTERACTIVE MODULE IN A NETWORK
WO 2013166172 A1 20131107	U S SUNLIGHT CORP	METHOD AND APPARATUS FOR SOLAR FAN CONTROLLER

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OTRAS REFERENCIAS

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

WO 2013177554 A1 20131128	STEADYSERV TECHNOLOGIES LLC	DRAFT BEER SUPPLY CHAIN SYSTEMS AND METHODS
WO 2013178981 A1 20131205	TOSHIBA RES EUROP LTD	CONTENT CENTRIC AND LOAD-BALANCING AWARE DYNAMIC DATA AGGREGATION
WO 2013182347 A1 20131212	SIEMENS AG	SECURE TRANSMISSION OF A MESSAGE
WO 2013174263 A1 20131128	HUAWEI TECH CO LTD	SYSTEM AND METHOD FOR DELAY SCHEDULING
WO 2013180623 A2 20131205	ERICSSON TELEFON AB L M	PLUGGABLE MODULE
WO 2013184358 A1 20131212	RAYTHEON CO	SYSTEM AND METHOD FOR RAPID CLUSTER ANALYSIS OF HYPERSPPECTRAL IMAGES
WO 2013177958 A1 20131205	SHENYANG INST OF AUTOMATION OF THE CHINESE ACADEMY OF SCIENCES	OFDM TECHNOLOGY-BASED FREQUENCY DOMAIN POLLING METHOD FOR WIRELESS SENSOR NETWORK
WO 2013137806 A1 20130919	ERICSSON TELEFON AB L M	VERIFICATION IN A WIRELESS COMMUNICATION SYSTEM
WO 2013175073 A1 20131128	TEKNOLOGIAN TUTKIMUSKESKUS VTT	INTERMODULATION SENSOR PLATFORM BASED ON MECHANICAL RESONATOR
WO 2013175162 A1 20131128	AES ENG LTD	A MONITORING DEVICE
WO 2013147873 A1 20131003	HEWLETT PACKARD DEVELOPMENT CO	PROTECTING CONTEXT-SENSITIVE DATA
WO 2013155100 A1 20131017	QUALCOMM INC	SYSTEMS AND METHODS FOR WIRELESS COMMUNICATION IN SUB GIGAHERTZ BANDS
WO 2013135773 A1 20130919	ABLY AS	METHOD AND APPARATUS FOR MONITORING ELECTRIC POWER TRANSMISSION, DISTURBANCES AND FORECASTS
WO 2013154337 A1 20131017	CYTRONIQ LTD	METHOD AND SYSTEM FOR STATIC AND DYNAMIC POSITIONING OR CONTROLLING MOTION OF MARINE STRUCTURE
WO 2013158591 A1 20131024	DRAKER INC	COMMUNICATING DATA IN A MESH NETWORK
WO 2013134615 A1 20130912	HUSQVARNA AB	DATA COLLECTION SYSTEM AND METHOD FOR FLEET MANAGEMENT
WO 2013171683 A1 20131121	SCANTRAWL AS	TWIN TRAWL GEOMETRY

WO 2013155657 A1 20131024	RENESAS MOBILE CORP	ROUTING ARRANGEMENT IN A WIRELESS SENSOR NETWORK
WO 2013153890 A1 20131017	OMRON TATEISI ELECTRONICS CO	DEVICE MANAGEMENT APPARATUS AND DEVICE SEARCH METHOD
WO 2013155685 A1 20131024	RENESAS MOBILE CORP	MOBILE DATA COLLECTION IN A WIRELESS SENSING NETWORK
WO 2013156026 A1 20131024	ELECTRONIC AS KK	A DATA ACQUISITION SYSTEM AND A METHOD OF ACQUIRING DATA FROM A WIND TURBINE
WO 2013165917 A1 20131107	RACING INCIDENT PTY LTD	TACTILE BASED PERFORMANCE ENHANCEMENT SYSTEM
WO 2013167649 A1 20131114	VILOC BVBA	ACTIVE RFID BASED TRACK AND TRACE SYSTEM
WO 2013134926 A1 20130919	SIEMENS AG	A SENSOR NETWORK SYSTEM AND METHOD FOR COMMUNICATING IN THE SYSTEM
WO 2013136604 A1 20130919	OMRON TATEISI ELECTRONICS CO	SENSOR MODULE, SENSOR NETWORK SYSTEM, DATA TRANSMISSION METHOD, DATA TRANSMISSION PROGRAM, AND DATA COLLECTION METHOD IN SENSOR NETWORK SYSTEM
WO 2013174928 A1 20131128	ECOLE POLYTECH	METHOD OF REAL-TIME REGULATION COMPLIANCE FOR WIRELESS TRANSMITTERS
WO 2013145254 A1 20131003	FUJITSU LTD	PROGRAM, DEVICE, AND METHOD FOR EXECUTING DISTRIBUTED PROCESSING
WO 2013151456 A1 20131010	OBSHESTVO S OGRANICHENNOY OTVETSTVENNOS TYU TRUBOPROVOD KONTROL SERVIS	WIRELESS VIBRATION AND TEMPERATURE MONITORING SYSTEM AND ASSEMBLY FOR FIXING A PIEZOELECTRIC ELEMENT
WO 2013154242 A1 20131017	CYTRONIQ CO LTD	SYSTEM AND METHOD FOR STATIC AND DYNAMIC POSITIONING OF MARINE STRUCTURE BY USING REAL- TIME MONITORING OF MARINE ENVIRONMENT
WO 2013167128 A1 20131114	SCADA INTERNAT APS	MONITORING SYSTEM AND METHOD
WO 2013142505 A1 20130926	ADT SERVICES GMBH	SCALABLE PROTOCOL FOR LARGE WSNS HAVING LOW DUTY CYCLE END NODES
WO 2013142733 A1 20130926	GREENE CHARLES E	WIRELESS SENSOR SYSTEM, METHOD AND APPARATUS WITH SWITCH AND OUTLET CONTROL
WO 2013160053 A1 20131031	SKF AB	BEARING MONITORING METHOD AND SYSTEM
WO 2013142679 A1 20130926	THERMO KING CORP	INTERFACES FOR SETUP OF A TRANSPORT REFRIGERATION SYSTEM AND PROVIDING TRANSPORT REFRIGERATION SYSTEM DIAGNOSTIC INFORMATION TO A USER

<u>WO 2013166050 A2</u> <u>20131107</u>	XIO INC	CONFIGURABLE, CONNECTORIZED SERVER-AUGMENTED CONTROL SYSTEM
<u>WO 2013133674 A1</u> <u>20130912</u>	KOREA ELECTRONICS TELECOMM	EXTENDED DSME MAC FOR LOW POWER UTILITY MONITORING SERVICE
<u>WO 2013150485 A2</u> <u>20131010</u>	EXTRASOLUTION S R L	METHOD AND DEVICE FOR MEASURING AND COLLECTING ENVIRONMENT DATA IN A CLOSED VOLUME

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