

Boletín VT

REDES DE SENSORES INALÁMBRICAS

14

2.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

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO2013082588 A1	BIOLOG ILLUMINATION LLC [US] et al.	ILLUMINATION AND GROW LIGHT SYSTEM AND ASSOCIATED METHODS
WO2013082227 A1	ILLINOIS TOOL WORKS [US]	REMOTE MONITORING SYSTEMS
WO2013077918 A1	FARRISH BRYAN HAROLD [US]	AUTOMATIC LIGHTING CONTROLLER FOR ATTACHED MACROALGAL GROWTH
WO2013070846 A1	PIONEER HI BRED INT [US]	LARGE SCALE METHOD FOR DISPENSING GRAINS OF POLLEN
WO2013070719 A1	TRIMBLE NAVIGATION LTD [US]	HARVESTER BASE CUTTER CONTROL SYSTEM AND METHOD
WO2013070063 A1	LELY PATENT NV [NL]	A METHOD AND APPARATUS FOR MONITORING A MILKING PROCESS
WO2013070062 A1	LELY PATENT NV [NL], WILSON ALLAN WALTER	A METHOD AND APPARATUS FOR MONITORING A MILKING PROCESS
WO2013064963 A1	IDUS CONTROLS LTD [CA], HARTMAN REINOUD JACOB [CA]	A REMOTE SENSING DEVICE AND SYSTEM FOR AGRICULTURAL AND OTHER APPLICATIONS
WO2013063670 A1	ATTAX DEDETIZACAO DESRATIZACAO S C LTDA ME [BR]	METHOD AND SYSTEM FOR CONTROLLING AND ELIMINATING PESTS
WO2013063225 A1	PETERSON JOHN [US], AGCO CORP [US]	DRIFT PLUME DISPLAY
WO2013063135 A1	TORO CO [US] et al.	SOIL MOISTURE SENSOR
WO2013062473 A1	DELAVAL HOLDING AB [SE]	MULTIPHASE FLOW MEASUREMENT
WO2013060018 A1	ERICSSON TELEFON AB L M [SE] et al.	METHOD AND SYSTEM FOR EVALUATION OF SENSOR OBSERVATIONS
WO2013059938 A1	ACCIPITER RADAR TECHNOLOGIES INC [CA]	DEVICE & METHOD FOR SMART, NON-HABITUATING, AUTOMATIC BIRD DETERRENT SYSTEM
WO2013057630 A1	UNIV MANITOBA [CA] et al.	PASSIVE WIRELESS SENSOR

WO2013052549 A1	UNIV CORNELL [US]	SYSTEM AND METHODS OF ACOUSTIC MONITORING
WO2013042076 A2	SCANTRAWL AS [NO]	SYSTEM AND METHOD FOR CONTROLLING AND DISPLAYING PARAMETERS DURING TRAWLING

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REDES DE SENSORES PARA ENTORNOS URBANOS O PÚBLICOS

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

WO2013079547 A1	FUGRO GEOTEAM AS [NO]	ACQUISITION AND PROCESSING OF MULTI-SOURCE B ROADBAND MARINE SEISMIC DATA
WO2013079086 A1	NOKIA SIEMENS NETWORKS OY [FI], SIIPOLA TIMO PIETARI [FI]	ENVIRONMENT OBSERVATION SYSTEM
WO2013078063 A1	TYCO ELECTRONICS CORP [US]	PHOTOSENSOR CIRCUIT INCLUDING A REGULATED POWER SUPPLY
WO2013077478 A1	DAEMIN INDUSTRY DEV CO LTD [KR] et al.	MONITORING SYSTEM FOR DEBRIS BARRIER DISASTER MANAGEMENT
WO2013074900 A1	EXPRESS IMAGING SYSTEMS LLC [US]	ADJUSTABLE OUTPUT SOLID-STATE LAMP WITH SECURITY FEATURES
WO2013072826 A1	KONINKL PHILIPS ELECTRONICS NV [NL]	CODED LIGHT TRANSMISSION AND RECEPTION FOR LIGHT SCENE CREATION
WO2013072282 A1	ATS GROUP IP HOLDINGS LTD et al.	METHOD AND SYSTEM FOR SPATIO-TEMPORAL SENSOR SELECTION
WO2013068766 A2	METERMIMIC LTD [GB], MIDDLETON MATTHEW [GB]	UTILITY METER DATA RECORDING SYSTEM
WO2013067389 A1	DIGITAL LUMENS INC [US]	METHODS, SYSTEMS, AND APPARATUS FOR INTELLIGENT LIGHTING
WO2013067089 A2	TOTUS SOLUTIONS INC [US] et al.	NETWORKED MODULAR SECURITY AND LIGHTING DEVICE GRIDS AND SYSTEMS, METHODS AND DEVICES THEREOF
WO2013066618 A1	SCHNEIDER ELECTRIC USA INC [US] et al.	WIRELESS HOME ENERGY MONITORING SYSTEM
WO2013066546 A1	BOEING CO [US] et al.	INTRUSION DETECTION SYSTEM
WO2013064283 A1	BOSCH GMBH ROBERT [DE] et al.	METHOD AND DEVICE FOR GROUPING LIGHTING UNITS
WO2013063350 A1	ELWHA LLC [US]	AIR-TREATMENT MASK SYSTEMS, AND RELATED METHODS AND AIR-TREATMENT MASKS
WO2013062650 A1	RAYTHEON CO [US] et al.	CONVOY-BASED SYSTEM AND METHODS FOR LOCATING AN ACOUSTIC SOURCE
WO2013061589 A1	PANASONIC CORP [JP]	WIRELESS TAG DEVICE, WIRELESS COMMUNICATION SYSTEM, AND RESEND CONTROL METHOD
WO2013061300 A1	ENEA AGENZIA NAZ PER LE NUOVE TECNOLOGIE L EN E LO SVILUPPO ECONOMICO SOSTENIBILE [IT]	A DISTRIBUTED MONITORING METHOD FOR ACHIEVING ENERGY EFFICIENCY IN BUILDINGS AND APPARATUS THEREFOR
WO2013061189 A1	KONINKL PHILIPS ELECTRONICS NV [NL]	METHODS AND APPARATUS FOR CONTROL OF ILLUMINATION IN AN INTERIOR SPACE

WO2013055637 A1	GECO TECHNOLOGY BV [NL] et al.	WAVEFIELD SEPARATION USING A GRADIENT SENSOR
WO2013055366 A1	HEWLETT PACKARD DEVELOPMENT CO [US] et al.	GEOLOGICAL SEISMIC SENSING NODE STIMULUS EVENT SUMMARY INFORMATION
WO2013055359 A1	HEWLETT PACKARD DEVELOPMENT CO [US] et al.	GEOLOGICAL SEISMIC SENSING NODE STIMULUS EVENT STORAGE
WO2013054562 A1	HITACHI LTD [JP], FURUYA SOICHI [JP]	INFORMATION VIEWING SYSTEM AND METHOD
WO2013054482 A1	PANASONIC CORP [JP]	DATA RELAY SYSTEM, RELAY READER APPARATUS, RELAY TAG APPARATUS, RELAY APPARATUS, AND DATA RELAY METHOD
WO2013050997 A1	MENOLINX SYSTEM LTD [IL]	DEVICE AND METHOD FOR AUTOMATIC CALIBRATION OF ILLUMINATION SYSTEM AND ENERGY SAVING
WO2013049377 A1	LOUISIANA TECH UNIVERSITY RES FOUNDATION A DIVISION OF LOUISIANA TECH UNIVERSITY FOUNDATION INC [US] et al.	SENSOR FUSION FRAMEWORK USING MULTIPLE SENSORS TO ASSESS BURIED STRUCTURES
WO2013045588 A1	CGGVERITAS SERVICES SA [FR]	DEPLOYMENT AND RECOVERY OF AUTONOMOUS UNDERWATER VEHICLES FOR SEISMIC SURVEY

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REDES DE SENSORES PARA DETECTAR INCENDIOS

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

WO2013077853 A1	SCHNEIDER ELECTRIC BUILDINGS LLC [US], LIANG JIE [US]	METHOD AND SYSTEM FOR LOCATION-BASED DELIVERY OF NOTICES OF ALARMS AND EVENTS
WO2013074804 A1	COOPER TECHNOLOGIES CO [US], BARNA KYLE STEVEN [US]	OVERHEAT SUPPRESSION SYSTEMS AND METHODS FOR AN ELECTRICAL HOUSING
WO2013066316 A1	DRAEGER SAFETY INC [US] et al.	DETECTION OF GAS MIXTURES HAVING AN ADDITIVE OR SYNERGISTIC TOXIC EFFECT
WO2013057243 A2	GIGASET COMMUNICATIONS GMBH [DE] et al.	CENTRAL UNIT FOR MONITORING AT LEAST ONE SENSOR
WO2013056395 A1	HONEYWELL INTERNATIONAL INC [US] et al.	MODEL-BASED GENERATION OF INFORMATION AND EVACUATION MESSAGES
WO2013055599 A1	SIMPLEXGRINNEL LP [US]	SYSTEM AND METHOD FOR SYNCHRONIZATION OF NETWORKED FIRE ALARM PANELS
WO2013053624 A1	SIEMENS AG [DE]	METHOD FOR INCREASING THE IMMUNITY OF A FIRE DETECTOR TO FALSE ALARMS
WO2013052401 A1	CREE INC [US] et al.	OVER-TEMPERATURE HANDLING OF LIGHTING DEVICE
WO2013050473 A1	FRAUNHOFER GES FORSCHUNG [DE]	PORTABLE DEVICE, VIRTUAL REALITY SYSTEM AND METHOD

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OTRAS REFERENCIAS

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

WO2013097946 A2	ELWE TECHNIK GMBH [DE], PABST MICHAEL J [DE]	SELF-ACTIVATING ADAPTIVE MEASURING NETWORK AND METHOD FOR REGISTERING WEAK ELECTROMAGNETIC SIGNALS
WO2013090809 A1	INTERDIGITAL PATENT HOLDINGS [US]	METHOD AND APPARATUS FOR TRIGGERING MACHINE TYPE COMMUNICATIONS APPLICATIONS
WO2013090073 A1	ALCATEL LUCENT [FR]	REPLAY ATTACK PROTECTION WITH SMALL STATE FOR USE IN SECURE GROUP COMMUNICATION
WO2013089998 A1	MOTOROLA MOBILITY LLC [US]	TARGETING CONTENT BASED ON SENSOR NETWORK DATA WHILE MAINTAINING PRIVACY OF SENSOR NETWORK DATA
WO2013085959 A2	BEET LLC [US]	METHOD AND SYSTEM FOR CAPTURING AUTOMATION DATA
WO2013083973 A1	GASSECURE AS [NO], SAMUELS ADRIAN JAMES [GB]	METHOD AND SYSTEM FOR GAS DETECTION
WO2013083083 A1	HUAWEI TECH CO LTD [CN]	SYSTEM AND METHOD FOR PREAMBLES IN A WIRELESS COMMUNICATIONS NETWORK
WO2013080034 A2	ALCATEL LUCENT [FR]	METHOD AND APPARATUS FOR NETWORK-BASED MULTICAST IN A UBIQUITOUS SENSOR NETWORK
WO2013079771 A1	NOKIA CORP [FI]	METHOD AND APPARATUS FOR SHARING A COMMUNICATION AMONG WIRELESS DEVICES
WO2013078064 A1	VITAL CONNECT INC [US]	METHOD AND SYSTEM FOR PAIRING A SENSOR DEVICE TO A USER
WO2013076740 A2	LOGICA PRIVATE LTD [IN], PADMALAYAM NARAYANA KURUP AJITH KUMAR [IN]	MACHINE TO MACHINE COMMUNICATION ENABLED AIR CONDITIONING SYSTEM
WO2013076575 A1	ALCATEL LUCENT [FR]	METHOD OF SUPPORTING MULTI-HOMING IN A SENSOR NETWORK
WO2013076325 A1	GARCIA ROMERO DARIO [ES]	HELMET HAVING AN INTEGRAL ELECTRONIC SAFETY SYSTEM
WO2013074090 A1	HEWLETT PACKARD DEVELOPMENT CO [US], CHO JOHN MINJAE [US]	MOBILIZED SENSOR SYSTEM
WO2013071478 A1	RENESAS MOBILE CORP [JP] et al.	A METHOD AND AN APPARATUS FOR ASSISTING OPERATION OF A WIRELESS SENSOR NETWORK

WO2013071185 A1	EXXONMOBIL UPSTREAM RES CO [US] et al.	EXPLORATION METHOD AND SYSTEM FOR DETECTION OF HYDROCARBONS
WO2013070747 A1	TEGO INC [US]	RFID DRIVE MANAGEMENT FACILITY
WO2013070380 A1	BLUETICK INC [US]	SYSTEM AND METHOD TO MONITOR AND CONTROL REMOTE SENSORS AND EQUIPMENT
WO2013070263 A1	ITRON INC [US] et al.	ROUTING COMMUNICATIONS BASED ON NODE AVAILABILITY
WO2013070131 A1	ROSEMOUNT TANK RADAR AB [SE]	MONITORING OF FLOATING ROOF TANK
WO2013067123 A1	KOHLER CO [US]	POWER MANAGEMENT SYSTEM THAT INCLUDES A GENERATOR CONTROLLER
WO2013065875 A1	PANASONIC CORP [JP]	WIRELESS COMMUNICATION APPARATUS AND WIRELESS COMMUNICATION SYSTEM
WO2013065327 A1	OMRON TATEISI ELECTRONICS CO [JP], TAKENAKA HIDEKI [JP]	NETWORK SYSTEM, NODE DEVICE GROUP, COMPUTER DEVICE, AND METHOD FOR TRANSMITTING AND RECEIVING SENSOR DATA
WO2013065203 A1	OMRON TATEISI ELECTRONICS CO [JP], TAKENAKA HIDEKI [JP]	NETWORK SYSTEM, NODE DEVICE GROUP, SENSOR DEVICE GROUP, AND METHOD FOR TRANSMITTING AND RECEIVING SENSOR DATA
WO2013062468 A1	CREATOR TEKNISK UTVECKLING AB [SE]	WIRELESS SENSOR DEVICE AND SYSTEM COMPRISING THE SAME
WO2013060424 A1	ERICSSON TELEFON AB L M [SE]	VOICE INTERACTION WITH A CONSTRAINED DEVICE VIA A COMMUNICATIONS NETWORK
WO2013060347 A1	HELMHOLTZ ZENTRUM MUENCHEN [DE] et al.	MONITORING DEVICE, TERMINAL, AND MONITORING SYSTEM FOR MONITORING THE ENVIRONMENT
WO2013060160 A1	ZTE CORP [CN] et al.	MUTUAL IDENTITY AUTHENTICATION METHOD AND SYSTEM FOR WIRELESS SENSOR NETWORK
WO2013057108 A1	COMMISSARIAT ENERGIE ATOMIQUE [FR]	RANGE ESTIMATION METHOD BASED ON RSS MEASUREMENT WITH LIMITED SENSITIVITY RECEIVER
WO2013057106 A1	COMMISSARIAT ENERGIE ATOMIQUE [FR]	RSS BASED POSITIONING METHOD WITH LIMITED SENSITIVITY RECEIVER
WO2013057104 A1	COMMISSARIAT ENERGIE ATOMIQUE [FR]	METHOD FOR NODE POSITIONING FOR A WIRELESS NETWORK
WO2013056418 A1	RENESAS MOBILE CORP [JP] et al.	EFFICIENT DATA DISSEMINATION TOWARDS A MOBILE SINK IN A WIRELESS SENSOR NETWORK
WO2013055558 A1	HONEYWELL INT INC [US]	METHOD FOR WIRELESS DEVICE LOCATION USING AUTOMATIC LOCATION UPDATE VIA A PROVISIONING DEVICE AND RELATED APPARATUS AND SYSTEM
WO2013052794 A1	CISCO TECH INC [US]	ROUTE PREFIX AGGREGATION USING REACHABLE AND NON-REACHABLE ADDRESSES IN A COMPUTER NETWORK

WO2013050856 A2	MOLTOSENSO S R L [IT]	COMMUNICATION NETWORK AMONG ELECTRONIC DEVICES AND METHOD TO AUTOMATICALLY RECOGNIZE AND MANAGE THE TYPE OF ELECTRONIC DEVICES CONNECTED TO THE NETWORK
WO2013048435 A1	CHOI YANG-SEOK [US] et al.	SCHEDULER SYSTEM FOR SIMULTANEOUS TRANSMIT AND RECEIVE
WO2013046069 A1	IBM [US] et al.	METHOD AND DEVICE FOR TRANSMITTING DATA TO AND FROM NODES OF A CLUSTERED MULTI-HOP NETWORK WITH A TDMA SCHEME

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