

# Boletín VT

## REDES DE SENSORES INALÁMBRICAS

# 15

3.<sup>er</sup> 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
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<a href="#">WO 2013095082 A1</a> <a href="#">20130627</a>	MIMOS BERHAD	FRUIT RIPENESS DETECTION AND COLLECTION SYSTEM AND METHOD THEREOF
<a href="#">WO 2013096959 A2</a> <a href="#">20130627</a>	AGCO CORP	VARIABLE SPEED ROUND BALE CHAMBER CONTROL USING BALE GROWTH RATE
<a href="#">WO 2013096957 A1</a> <a href="#">20130627</a>	AGCO CORP	VARIABLE SPEED ROUND BALE CHAMBER CONTROL WITH ACCUMULATION SENSOR
<a href="#">WO 2013096493 A1</a> <a href="#">20130627</a>	YOUNIS SAED G	REMOTELRY SENSING AND ADAPTING IRRIGATION SYSTEM
<a href="#">WO 2013126023 A1</a> <a href="#">20130829</a>	VENDEKA BILGI TEKNOLOJILERI TICARET LTD SIRKETI	A PLANT GROWTH SYSTEM AND MONITORING METHOD
<a href="#">WO 2013103937 A1</a> <a href="#">20130711</a>	DICKEY JOHN	FAULT-TOLERANT SENSING AND MONITORING COMMUNICATIONS BUS SYSTEM FOR AGRICULTURAL APPLICATIONS
<a href="#">WO 2013089908 A1</a> <a href="#">20130620</a>	PODPONICS LLC	LUMINAIRE SYSTEM, METHOD AND APPARATUS FOR OPTIMIZING PLANT GROWTH IN A CONTROLLED FARMING ENVIRONMENT TECHNOLOGICAL FIELD
<a href="#">WO 2013110202 A1</a> <a href="#">20130801</a>	N C QUEST INC	CARBON NANOTUBE PRODUCTION METHOD TO STIMULATE SOIL MICROORGANISMS AND PLANT GROWTH PRODUCED FROM THE EMISSIONS OF INTERNAL COMBUSTION
<a href="#">WO 2013128384 A1</a> <a href="#">20130906</a>	TEVATRONIC LTD	DEVICE, SYSTEM, AND METHOD OF IRRIGATION

[...ver más](#)

## REDES DE SENSORES PARA ENTORNOS URBANOS O PÚBLICOS

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

<a href="#">WO 2013106923 A1</a> <a href="#">20130725</a>	ENERGY AWARE TECHNOLOGY INC	SYSTEM AND METHOD OF COMPILING AND ORGANIZING POWER CONSUMPTION DATA AND CONVERTING SUCH DATA INTO ONE OR MORE USER ACTIONABLE FORMATS
<a href="#">WO 2013099026 A1</a> <a href="#">20130704</a>	FUJITSU LTD	NODE DEVICE AND TIME SYNCHRONIZATION METHOD
<a href="#">WO 2013093771 A1</a> <a href="#">20130627</a>	KONINKL PHILIPS ELECTRONICS NV	MONITORING A SCENE
<a href="#">WO 2013096020 A1</a> <a href="#">20130627</a>	MICROSOFT CORP	DATA COLLECTION PIGGYBACK PROTOCOL
<a href="#">WO 2013102855 A1</a> <a href="#">20130711</a>	KONINKL PHILIPS ELECTRONICS NV	EMERGENCY RESPONSE AND TRACKING USING LIGHTING NETWORKS
<a href="#">WO 2013134193 A2</a> <a href="#">20130912</a>	SHELL OIL CO	INTEGRATED SEISMIC MONITORING SYSTEM AND METHOD
<a href="#">WO 2013130267 A1</a> <a href="#">20130906</a>	INTEL CORP	IMPROVED CHANNEL ESTIMATION AND TRACKING
<a href="#">WO 2013125240 A1</a> <a href="#">20130829</a>	PANASONIC CORP	COMMUNICATION SYSTEM
<a href="#">WO 2013121298 A2</a> <a href="#">20130822</a>	TAKADU LTD	SYSTEM AND METHOD FOR ANALYZING GIS DATA TO IMPROVE OPERATION AND MONITORING OF WATER DISTRIBUTION NETWORKS
<a href="#">WO 2013103908 A1</a> <a href="#">20130711</a>	SCHLUMBERGER CA LTD	OPTICAL FIBER WELL DEPLOYMENT FOR SEISMIC SURVEYING
<a href="#">WO 2013102943 A1</a> <a href="#">20130711</a>	PAN VISION S R L	ENVIRONMENT MONITORING DEVICE
<a href="#">WO 2013106837 A1</a> <a href="#">20130718</a>	GECO TECHNOLOGY BV	PROCESSING COLLECTED SURVEY DATA
<a href="#">WO 2013112287 A1</a> <a href="#">20130801</a>	MARTIN DAVID	NETWORKED AIR QUALITY MONITORING
<a href="#">WO 2013119584 A1</a> <a href="#">20130815</a>	ECORITHM INC	BUILDING ANALYSIS SYSTEMS AND METHODS
<a href="#">WO 2013119822 A1</a> <a href="#">20130815</a>	VISUALANT INC	AREA SURVEILLANCE SYSTEMS AND METHODS
<a href="#">WO 2013109601 A1</a> <a href="#">20130725</a>	EARTH NETWORKS INC	USING LIGHTNING DATA TO GENERATE PROXY REFLECTIVITY DATA
<a href="#">WO 2013120002 A1</a> <a href="#">20130815</a>	INOVA LTD	METHOD OF SEISMIC SOURCE SYNCHRONIZATION
<a href="#">WO 2013093914 A1</a> <a href="#">20130627</a>	ASSOULIN DANIEL	A ROAD ILLUMINATION SYSTEM
<a href="#">WO 2013107574 A1</a> <a href="#">20130725</a>	SIEMENS AG	USE OF THE OCCUPANCY RATE OF AREAS OR BUILDINGS TO SIMULATE THE FLOW OF PERSONS

<a href="#"><u>WO 2013114151 A2</u></a> <a href="#"><u>20130808</u></a>	INSIS S P A	AUTOMATED ELECTRONIC METHOD FOR PERIODICAL CONTROL OF SNOWPACK CONDITIONS
<a href="#"><u>WO 2013119598 A2</u></a> <a href="#"><u>20130815</u></a>	ION GEOPHYSICAL CORP	INTEGRATED PASSIVE AND ACTIVE SEISMIC SURVEYING USING MULTIPLE ARRAYS
<a href="#"><u>WO 2013123434 A1</u></a> <a href="#"><u>20130822</u></a>	TT GOVERNMENT SOLUTIONS INC	MULTI-FUNCTION ELECTRIC METER ADAPTER AND METHOD FOR USE

[...ver más](#)

## REDES DE SENSORES PARA DETECTAR INCENDIOS

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

<a href="#">WO 2013094829 A1</a> <a href="#">20130627</a>	KOREA RAILROAD RES INST	ACTIVE PRESSURIZATION SYSTEM MAKING USE OF PLATFORM TRACK AREA UPPER SLAB OF UNDERGROUND TRAIN STATION
<a href="#">WO 2013085434 A2</a> <a href="#">20130613</a>	OBSHESTVO S OGRANICHENNOI	SPRINKLER WITH FIRE SENSOR
<a href="#">WO 2013121437 A2</a> <a href="#">20130822</a>	NISHIL THOMAS KOSHY	A NETWORKING SCHEME FOR INTERCONNECTING DEVICES FOR BUILDING AUTOMATION SYSTEMS
<a href="#">WO 2013124077 A2</a> <a href="#">20130829</a>	BOSCH GMBH ROBERT	AUTOMATIC MAITENANCE DETECTION IN A PROCESSOR DEVICE
<a href="#">WO 2013083096 A1</a> <a href="#">20130613</a>	KPM CONSULT A S	STATIONARY FIRE EXTINGUISHING SYSTEM, ESPECIALLY FOR TUNNELS AND ENCLOSED AREAS
<a href="#">WO 2013091100 A1</a> <a href="#">20130627</a>	PREMIER LIGHTING LTD	WIRELESS LIGHTING AND ELECTRICAL DEVICE CONTROL SYSTEM

[..ver más](#)

## OTRAS REFERENCIAS

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

<a href="#">WO 2013091135 A1</a> <a href="#">20130627</a>	RENESAS MOBILE CORP	METHOD AND APPARATUS FOR FACILITATING GATEWAY SELECTION
<a href="#">WO 2013096138 A1</a> <a href="#">20130627</a>	MICROSOFT CORP	SENSOR FUSION INTERFACE FOR MULTIPLE SENSOR INPUT
<a href="#">WO 2013096618 A1</a> <a href="#">20130627</a>	CISCO TECH INC	ASSISTED INTELLIGENT ROUTING FOR MINIMALISTIC CONNECTED OBJECT NETWORKS
<a href="#">WO 2013093911 A1</a> <a href="#">20130627</a>	GLOBISENS LTD	COLLABORATIVE ENVIRONMENT/EXPERIMENT MONITORING DEVICE AND SYSTEM
<a href="#">WO 2013106899 A1</a> <a href="#">20130725</a>	NEWTRAX HOLDINGS INC	POST-ACCIDENT NETWORK PROBE AND METHOD OF USING THE SAME
<a href="#">WO 2013091028 A1</a> <a href="#">20130627</a>	DX TECH PTY LTD	FAULT DETECTION SYSTEM
<a href="#">WO 2013096359 A2</a> <a href="#">20130627</a>	GEN ELECTRIC	SYSTEM AND METHOD FOR MONITORING DOWN-HOLE FLUIDS
<a href="#">WO 2013091656 A1</a> <a href="#">20130627</a>	ITXPRESS AS	DYNAMIC DATA COLLECTION SYSTEM
<a href="#">WO 2013114408 A1</a> <a href="#">20130808</a>	CONTROLANT EHF	AUTOMATIC SUPPLY-CHAIN MONITORING
<a href="#">WO 2013087303 A1</a> <a href="#">20130620</a>	SIEMENS AG	METHOD AND DEVICE FOR FILTERING NETWORK TRAFFIC
<a href="#">WO 2013087432 A1</a> <a href="#">20130620</a>	SIEMENS AG	METHOD FOR TRANSMITTING DATA IN A COMMUNICATIONS NETWORK
<a href="#">WO 2013115802 A1</a> <a href="#">20130808</a>	HEWLETT PACKARD DEVELOPMENT CO	ZIG ZAG ROUTING
<a href="#">WO 2013120431 A1</a> <a href="#">20130822</a>	HUAWEI DEVICE CO LTD	METHOD FOR DETERMINING NEIGHBORING STATION, STATION, ACCESS POINT AND COMMUNICATION SYSTEM
<a href="#">WO 2013134715 A2</a> <a href="#">20130912</a>	HUSQVARNA AB	OUTDOOR POWER EQUIPMENT FLEET MANAGEMENT SYSTEM WITH OPERATOR PERFORMANCE MONITORING
<a href="#">WO 2013134721 A1</a> <a href="#">20130912</a>	HUSQVARNA AB	EQUIPMENT DATA SENSOR AND SENSING FOR FLEET MANAGEMENT
<a href="#">WO 2013128468 A2</a> <a href="#">20130906</a>	TATA CONSULTANCY SERVICES LTD	METHOD AND SYSTEM FOR EFFICIENT REAL TIME THERMAL MANAGEMENT OF A DATA CENTER

<a href="#"><u>WO 2013130460 A1</u></a> <a href="#"><u>20130906</u></a>	INTEL CORP	TECHNIQUES TO MANAGE DWELL TIMES FOR PILOT ROTATION
<a href="#"><u>WO 2013130800 A1</u></a> <a href="#"><u>20130906</u></a>	CISCO TECH INC	DIVERSE PATHS USING A SINGLE SOURCE ROUTE IN COMPUTER NETWORKS
<a href="#"><u>WO 2013126524 A1</u></a> <a href="#"><u>20130829</u></a>	CISCO TECH INC	DYNAMIC APPLICATION-AWARE ROUTING TOPOLOGIES
<a href="#"><u>WO 2013087038 A1</u></a> <a href="#"><u>20130620</u></a>	HUAWEI TECH CO LTD	System and Method for Communicating Using Short-Header Frames
<a href="#"><u>WO 2013111965 A1</u></a> <a href="#"><u>20130801</u></a>	SAMSUNG ELECTRONICS CO LTD	METHOD AND SYSTEM FOR SWITCHING COORDINATOR IN A PERSONAL AREA NETWORK
<a href="#"><u>WO 2013093670 A1</u></a> <a href="#"><u>20130627</u></a>	IBM	METHOD FOR ROUTING DATA IN A WIRELESS SENSOR NETWORK
<a href="#"><u>WO 2013100275 A1</u></a> <a href="#"><u>20130704</u></a>	KOREA ELECTRONICS TECHNOLOGY	FREIGHT TRANSPORT SAFETY SYSTEM AND TERMINAL THEREOF
<a href="#"><u>WO 2013102628 A1</u></a> <a href="#"><u>20130711</u></a>	COMMISSARIAT ENERGIE ATOMIQUE	METHOD FOR ACCESSING A TRANSMISSION CHANNEL IN A WIRELESS COMMUNICATION NETWORK WITH A CONTENTION WINDOW
<a href="#"><u>WO 2013112835 A1</u></a> <a href="#"><u>20130801</u></a>	CISCO TECH INC	RELIABLE PACKET DELIVERY WITH OVERLAY NETWORK (RPDON)
<a href="#"><u>WO 2013116993 A1</u></a> <a href="#"><u>20130815</u></a>	ERICSSON TELEFON AB L M	METHOD, COMPUTER PROGRAM, COMPUTER PROGRAM PRODUCT AND SYSTEM FOR HANDLING SENSOR DATA
<a href="#"><u>WO 2013118515 A1</u></a> <a href="#"><u>20130815</u></a>	NIPPON TELEGRAPH & TELEPHONE	SENSOR TERMINAL AND SENSOR NETWORK SYSTEM
<a href="#"><u>WO 2013118621 A1</u></a> <a href="#"><u>20130815</u></a>	NEC CORP	SENSOR NETWORK, SENSOR MANAGEMENT SERVER, KEY UPDATING METHOD AND KEY UPDATING PROGRAM
<a href="#"><u>WO 2013097853 A1</u></a> <a href="#"><u>20130704</u></a>	VESTAS WIND SYS AS	METHOD FOR CONTROLLING A WIND TURBINE
<a href="#"><u>WO 2013131734 A1</u></a> <a href="#"><u>20130912</u></a>	SIEMENS AG	GENERATION OF TRIGGER EVENTS BY MEANS OF RFID TAGS
<a href="#"><u>WO 2013106941 A1</u></a> <a href="#"><u>20130725</u></a>	ENERGIEBUERO AG	METHOD OF PREDICTING THE EXPECTED FUTURE POWER PRODUCTION OF A WIND OR SOLAR POWER PLANT
<a href="#"><u>WO 2013121076 A1</u></a> <a href="#"><u>20130822</u></a>	NOKIA CORP	METHOD AND APPARATUS FOR MANAGING SENSOR INFORMATION
<a href="#"><u>WO 2013126441 A1</u></a> <a href="#"><u>20130829</u></a>	TEXAS INSTRUMENTS INC	PARTIAL CHANNEL MAPPING FOR FAST CONNECTION SETUP IN LOW ENERGY WIRELESS NETWORKS

<a href="#"><u>WO 2013121628 A1</u></a> <a href="#"><u>20130822</u></a>	OMRON TATEISI ELECTRONICS CO	DETECTION DEVICE, DETECTION METHOD, AND DETECTION SYSTEM
<a href="#"><u>WO 2013131546 A1</u></a> <a href="#"><u>20130912</u></a>	ERICSSON TELEFON AB L M	DEVICE AND METHOD OF REGISTERING M2M DEVICES AND FOR ACQUIRING DATA THEREOF
<a href="#"><u>WO 2013105104 A2</u></a> <a href="#"><u>20130718</u></a>	TATA CONSULTANCY SERVICES LTD	A SYSTEM FOR DYNAMIC SERVICE COLLABORATION THROUGH IDENTIFICATION AND CONTEXT OF PLURALITY OF HETEROGENEOUS DEVICES



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