

Boletín VT

REDES DE SENSORES INALÁMBRICAS

12

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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

WO2012165939 A1	MIMOS BERHAD [MY] et al.	MICROPUMP WITH INTEGRATED GAS SENSING SYSTEM AND METHOD THEREOF
WO2012158995 A2	LOCK INC C [US], ZIMMERMAN PATRICK R [US]	VACCINE AND HEALTH-RELATED APPLICATIONS FOR RUMINANT BREATH MONITORING SYSTEM
WO2012142050 A1	EARTHTEC SOLUTIONS LLC [US] et al.	METHODS AND SYSTEMS FOR MONITORING CROP MANAGEMENT AND TRANSPORT
WO2012139053 A2	PURESENSE ENVIRONMENTAL INC [US], FREY MICHELLE M [US]	EFFECTIVE ROOT ZONE USE IN CROP MANAGEMENT
WO2012127424 A1	MORAD ERAN [IL]	THREAT CONTROL SYSTEM FOR FISH PONDS
WO2012123944 A1	MIROBOT LTD [IL], BAREKET TAL [IL]	HUMAN ASSISTED MILKING ROBOT AND METHOD
WO2012138054 A2	KOREA ADVANCED INST SCI & TECH [KR] et al.	HUMIDITY SENSOR, HUMIDITY-SENSING METHOD, AND TRANSISTOR FOR THE HUMIDITY SENSOR

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REDES DE SENSORES PARA ENTORNOS URBANOS O PÚBLICOS

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

WO2012166878 A2	CISCO TECH INC [US], TAFT JEFFREY D [US]	DISTRIBUTED DATA COLLECTION FOR UTILITY GRIDS
WO2012166872 A2	CISCO TECH INC [US], TAFT JEFFREY D [US]	DISTRIBUTED INTELLIGENCE ARCHITECTURE WITH DYNAMIC REVERSE/FORWARD CLOUDING
WO2012159633 A1	LIGHT AS S [DK], RASMUSSEN STEEN [DK]	SENSOR UNIT FOR INTELLIGENT STREET LAMP AND APPLICATION
WO2012140610 A1	KONINKL PHILIPS ELECTRONICS NV [NL] et al.	HIERARCHICAL ROUTING FOR WIRELESS NETWORKS
WO2012140152 A1	GERBEC ALEKSANDER [SI]	NETWORK COMPRISING NODES ASSOCIATED WITH OUTDOOR LIGHTING DEVICES
WO2012141475 A2	KOREA ENVIRONMENT CORP [KR] et al.	WATER QUALITY TELEMONITORING SYSTEM
WO2012136853 A2	ELLIOTT ADAM [IE]	IMPROVEMENTS IN AND RELATING TO ROADWAY AND STREET LIGHTING APPARATUS AND ARRANGEMENT
WO2012131392 A2	REID DAVID [GB]	METHODS AND APPARATUS FOR IMPROVING THE INTEGRITY OF BUILDING STRUCTURES
WO2012129675 A1	ENERGENT INC et al.	A COMPUTER IMPLEMENTED ELECTRICAL ENERGY HUB MANAGEMENT SYSTEM AND METHOD
WO2012136561 A1	E HAWLE ARMATURENWERKE GMBH [AT], MAYR MARTIN [AT]	WATER TREATMENT PLANT
WO2012136209 A1	DANTAET AS [DK], GARNAES SVEND [DK]	A METHOD AND MEANS FOR DETECTING LEAKAGES IN PIPE INSTALLATIONS
WO2012136505 A2	YARA INT ASA [NO] et al.	PROCESS TO TREAT INDUSTRIAL WASTEWATER - (A3) PROCESS TO TREAT INDUSTRIAL WASTEWATER IN AN ANAEROBIC REACTOR AND BY CHEMICAL OXIDATION PROCESS TO TREAT INDUSTRIAL WASTEWATER
WO2012129243 A1	DIGITAL LUMENS INC [US] et al.	METHODS, APPARATUS AND SYSTEMS FOR PROVIDING OCCUPANCY-BASED VARIABLE LIGHTING
WO2012127470 A1	DAYAN RAHAMIN DAN [IL]	METHOD AND SYSTEM FOR STAMPING AND MARKING FLUID IN A PIPE NETWORK FOR SMART MONITORING SYSTEMS
WO2012126017 A2	LIQUID ROBOTICS INC [US], HINE ROGER G [US]	AUTONOMOUS WAVE-POWERED SUBSTANCE DISTRIBUTION VESSELS FOR FERTILIZING PLANKTON, FEEDING FISH, AND SEQUESTERING CARBON FROM THE ATMOSPHERE
WO2012125725 A1	GLOBAL MRV INC [US] et al.	EMISSIONS MEASURING SYSTEM
WO2012120122 A1	UNIV BRUXELLES [BE] et al.	METHOD FOR DETERMINING SUSPENDED MATTER LOADS CONCENTRATIONS IN A LIQUID
WO2012149981 A1	NOKIA SIEMENS NETWORKS OY [FI], ROOKE MICHAEL JOHN [FI]	METHOD, APPARATUS, AND SYSTEM FOR PROVIDING METERING INFORMATION

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REDES DE SENSORES PARA DETECTAR INCENDIOS

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

WO2012131280 A1	FRANCE TELECOM [FR] et al.	DATA COMMUNICATION IN A SENSOR ARRAY
WO2012131191 A1	FINSECUR [FR] et al.	ALARM TRIGGERING DEVICE FOR A SECURITY SYSTEM
WO2012131190 A2	FINSECUR [FR] et al.	ALARM TRIGGERING DEVICE FOR A SECURITY SYSTEM
WO2012131189 A1	FINSECUR [FR] et al.	ALARM TRIGGERING DEVICE FOR A SECURITY SYSTEM AND METHOD FOR INSTALLING AN ALARM TRIGGERING DEVICE
WO2012130670 A1	SIEMENS AG [DE], KOLB DIETER [DE]	AUTOMATICALLY LOCATING FIRE ALARMS
WO2012141606 A2	LUNCANU GABRIEL VASILE [RO]	PREVENTION, MONITORING, PROTECTION AND CONTROL SYSTEM FOR GOODS AND/OR PEOPLE THROUGH RADIO COMMUNICATIONS NETWORKS
WO2012138044 A2	NAT UNIV CHONBUK IND COOP FOUN [KR] et al.	SYSTEM FOR MONITORING FOREST FIRES WHICH SUPPLIES POWER THROUGH HYBRID POWER GENERATION, AND METHOD FOR MONITORING FOREST FIRES

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OTRAS REFERENCIAS

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

WO2012165938 A1	MIMOS BERHAD [MY] et al.	NEIGHBOUR DISCOVERY-BASED ROUTING METHOD FOR WIRELESS NETWORKS
WO2012165747 A1	UNIV KOREA RES & BUS FOUND [KR] et al.	RELAY-BASED COMMUNICATION SYSTEM AND METHOD FOR SELECTING COMMUNICATION PATH
WO2012163094 A1	SHANGHAI RES CT WIRELESS COMM [CN] et al.	LOAD EQUALIZATION METHOD BASED ON CONVERGENCE OF SENSOR NETWORK AND CELLULAR NETWORK
WO2012162508 A2	RAYTHEON CO [US], NAQVI WASEEM [US]	METHOD AND APPARATUS FOR OBJECT/MATERIAL DETECTION
WO2012161884 A2	GOOGLE INC [US], KLEIJN WILLEM BASTIAAN [NZ]	DISTRIBUTED BLIND SOURCE SEPARATION
WO2012152070 A1	ZTE CORP [CN], MA JINGWANG [CN]	METHOD FOR COMMUNICATION BETWEEN GATEWAYS IN WSN, INITIATOR GATEWAY, AND TARGET GATEWAY
WO2012148257 A1	MIMOS BERHAD [MY] et al.	METHOD FOR USE IN MULTI HOP WIRELESS SENSOR NETWORK
WO2012146801 A1	UNIV SEVILLA [ES] et al.	INTELLIGENT LOCATION-FINDING METHOD USING WIRELESS SENSOR NETWORKS
WO2012148115 A2	UNIV KOREA RES & BUS FOUND [KR] et al.	APPARATUS AND METHOD FOR CONTROLLING A BACKBONE NETWORK FOR A SENSOR NETWORK
WO2012147291 A1	PANASONIC CORP [JP] et al.	COMMUNICATION NODE AND NETWORK NODE
WO2012137171 A1	WI NEXT S R L [IT], DE CARNE NICOLA [IT]	METHOD FOR MANAGING A WIRELESS SENSOR NETWORK, AND CORRESPONDING SENSOR NODE, SENSOR NETWORK, AND COMPUTER PROGRAM PRODUCT
WO2012139735 A1	FLUIDMESH NETWORKS S R L [IT] et al.	MANAGEMENT OF RADIO FREQUENCIES IN A WIRELESS OR HYBRID MESH NETWORK
WO2012129612 A1	OGBURN DAMIAN [AU]	METHOD AND SYSTEM FOR SURVEYING OR MONITORING UNDERWATER FEATURES
WO2012128719 A1	UNIV NANYANG TECH [SG] et al.	SENSOR DEVICE
WO2012125726 A1	INTELLIGENT TECH INT INC [US], BREED DAVID S [US]	CARGO THEFT PREVENTION SYSTEM AND METHOD
WO2012131512 A1	IBM [US] et al.	DISCOVERY OF A SET OF NODES IN A NETWORK
WO2012126211 A1	ZTE CORP [CN], MA JINGWANG [CN]	METHOD AND SYSTEM FOR WIRELESS SENSOR NETWORK ACCESSING TO TELECOM NETWORK
WO2012126208 A1	ZTE CORP [CN], MA JINGWANG [CN]	METHOD AND SYSTEM FOR WIRELESS SENSOR NETWORK CONNECTING TO TELECOMMUNICATION NETWORK
WO2012143931 A2	TATA CONSULTANCY SERVICES LTD [IN] et al.	A METHOD AND SYSTEM FOR PRESERVING PRIVACY DURING DATA AGGREGATION IN A WIRELESS SENSOR NETWORK
WO2012148409 A1	CUBIC CORP [US] et al.	ACCELERATED REJOINING IN LOW POWER WIRELESS NETWORKING FOR LOGISTICS AND TRANSPORTATION APPLICATIONS
WO2012148395 A1	HEWLETT PACKARD DEVELOPMENT CO [US] et al.	SENSOR NODE OPERATIONAL MODES

WO2012146279 A1	TELECOM ITALIA SPA [IT] et al.	AREA MONITORING SYSTEM AND METHOD
WO2012139288 A1	RENESAS MOBILE CORP [JP] et al.	SENSOR NETWORK INFORMATION COLLECTION VIA MOBILE GATEWAY
WO2012129796 A1	SIEMENS AG [DE] et al.	A METHOD FOR CONFIGURING A WIRELESS DEVICE AND A WIRELESS DEVICE AND SYSTEM
WO2012124850 A1	SIRIUSOFT CORP [KR] et al.	MOBILE TERMINAL FOR PROVIDING INDOOR ENVIRONMENT INFORMATION, AND COMPUTER FOR CONTROLLING INDOOR ENVIRONMENT
WO2012122694 A1	NOKIA CORP [FI] et al.	METHOD AND APPARATUS FOR RESOURCE SAVING IN HETEROGENEOUS NETWORKS