

# Boletín VT

## REDES DE SENSORES INALÁMBRICAS

# 62

2.º trimestre 2025

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 inalámbricos, 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, contaminación, 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](#)

NIPO: 220-24-020-1

## 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
<a href="#">WO2025080804</a>	PIONEER HI BRED INT [US]	Digital twin of end-to-end crop breeding pipelines
<a href="#">WO2025120407</a>	SERAFAT SHEIDA [IR]	Predictive intelligent irrigation system based on soil moisture and meteorological information with internet of things (iot) technology
<a href="#">WO2025127942</a>	UNIV SAN IGNACIO DE LOYOLA S R L [PE]	Automated system for capillary action-based fertigation using compost leachates in urban gardens
<a href="#">WO2025089459</a>	JEONG JEONG HYUN [KR]	Vertical aquaponics smart farm system
<a href="#">WO2025097198</a>	MARTH JOSUA [AT]	Measuring device, system, and method for monitoring an agriculturally usable soil region
<a href="#">WO2025131460</a>	SELERYS [FR]	Aerostatic device provided with means for managing descent with active rotary rigid wing
<a href="#">WO2025070029</a>	SONY GROUP CORP [JP]	Control device, control method, and program
<a href="#">WO2025076537</a>	LANDSCAN LLC [US]	Digital twins for precise agricultural management
<a href="#">WO2025115955</a>	OMRON TATEISI ELECTRONICS CO [JP]	Spraying device, spraying program, spraying method, and ejection control module
<a href="#">WO2025133996</a>	LANDING ZONES CANADA INC [CA]	Atmospheric data collection device
<a href="#">WO2025119020</a>	HUAWEI TECH CO LTD [CN]	Meteorological measurement method and apparatus, and system
<a href="#">WO2025104012</a>	SLOWDANCE AS [NO]	System and method for post smolt cultivation
<a href="#">WO2025136128</a>	UNIV PERUANA DE CIENCIAS APLICADAS S A C [PE]	Electronic system for automatically classifying and quantifying fresh cacao beans with pulp
<a href="#">WO2025101144</a>	UNIV ISTANBUL MEDIPO [TR]	A method to energy-efficient over-the-air computation with backscatter communication and symbiotic radio
<a href="#">WO2025120363</a>	RAZMAVAR MASOUMEH [IR]	Specialized irrigation and fertilization device for plants accompanied by thunderstorm simulation
<a href="#">WO2025128570</a>	JIANG TIAN CHENG [PT]; GU XIAOPING [US]	System and method for monitoring plants
<a href="#">WO2025125925</a>	TECH INNOVATION INSTITUTE – SOLE PROPRIETORSHIP LLC [AE]	Mitigation of atmospheric effects on laser beam propagation assisted by laser-induced plasma

<a href="#">WO2025125977</a>	AGCO CORP [US]	Computer network-enabled sharing of state information for farming equipment or machines
<a href="#">WO2025065076</a>	INNOTAG DISTRIB INC [CA]	Control system and method for operating a row crop cultivator tool
<a href="#">WO2025131981</a>	YARA INT ASA [NO]	Method and system for determining a crop status and determining an agricultural product recommendation for a crop
<a href="#">WO2025088592</a>	INESC TEC INSTITUTO DE ENGENHARIA DE SIST E COMPUTADORES TECNOLOGIA E CIENCIA [PT]; UNIV DO PORTO [PT]	Add-on monitoring apparatus for a cutting tool, respective cutting tool, monitoring system and method
<a href="#">WO2025128060</a>	AKDENIZ UNIV [TR]	Mobile robot system for modern greenhouses
<a href="#">WO2025109350</a>	BARATH DAVID [HU]	Continuous sensory spray-liquid monitoring system
<a href="#">WO2025078923</a>	INTELLIGENT AGRICULTURAL SOLUTIONS LLC [US]	Shock indexing of sensors
<a href="#">WO2025100327</a>	SONY SEMICONDUCTOR SOLUTIONS CORP [JP]	Communication device, system, and method
<a href="#">WO2025072223</a>	LEAR GEORGE ANDREW III [US]	Pure water automation system
<a href="#">WO2025068727</a>	DISCOVERY CENTER NONPROFIT LTD [HU]	Development of a cost-optimised soil sampling method to support precision farming
<a href="#">WO2025073591</a>	NIK ELECTRONICS OOD [BG]; BAYER AG [DE]	Monitoring the application of pesticides, fertilizers and/or other liquids in an agricultural field
<a href="#">WO2025094686</a>	SONY SEMICONDUCTOR SOLUTIONS CORP [JP]	Light detection device, imaging device, and electronic apparatus
<a href="#">WO2025093105</a>	SIEMENS AG [DE]	Method and system for detecting modification to digital avatars in a computer simulated environment based on detection of tampering of real-world physical assets
<a href="#">WO2025111717</a>	SMARTGRO BIOENGINEERING INC [CA]	Horticultural lighting systems, devices, and methods
<a href="#">WO2025070943</a>	KOREA FISHERIES RES & DEVELOPMENT INSTITUTIE INC [KR]	System and method for managing aquafarm on basis of deep learning decision-making of ai

<a href="#">WO2025128528</a>	CANON VIRGINIA INC [US]; DEHART SEAN M [US]; RISQUE PAUL [US]; LESCHINSKY CONNOR [US]; ISON SEAN [US]; SHARPS JEFFREY T [US]; SHEETS JACOB LANDES [US]; ORTMANN THOMAS [US]; MILHORN JOSEPH [US]	Imaging device for controlled environmental agriculture spaces
<a href="#">WO2025127940</a>	SALARSAFE AS [NO]	A system configured to protect aquaculture installations from marine biological threats
<a href="#">WO2025132878</a>	BASF AGRO TRADEMARKS GMBH [DE]	Method for generating control data for dose adaptation for an application device for applying a crop protection product
<a href="#">WO2025099469</a>	CLAAS SELBSTFAHRENDE ERNTEMASCHINEN GMBH [DE]	Agricultural machine
<a href="#">WO2025082931</a>	COMMISSARIAT ENERGIE ATOMIQUE [FR]; CENTRE NAT RECH SCIENT [FR]; UNIV VERSAILLES SAINT QUENTIN EN YVELINES [FR]	Automated docking station for a spectrometer and associated measurement method
<a href="#">WO2025110530</a>	JK LIGHTING CO LTD [KR]	Animal breeding temperature control device having temperature setting function
<a href="#">WO2025085902</a>	TEXAS A & M UNIV SYS [US]	Systems and methods for detecting and predicting phenotypic measurements and phenotypes
<a href="#">WO2025095992</a>	KLEIN HANS [US]	Self-powered irrigation in-line element
<a href="#">WO2025105323</a>	MURATA MANUFACTURING CO [JP]	Irrigation system, irrigation method, program, and computer-readable medium
<a href="#">WO2025093351</a>	BAYER AG [DE]; LANDHOUS GMBH [DE]	Device for use on an agricultural area
<a href="#">WO2025122748</a>	GEBOE BEN J [US]	System and method for separating methane from livestock gases
<a href="#">WO2025068796</a>	PREC PLANTING LLC [US]	Agricultural analysis system and calibration methods thereof
<a href="#">WO2025083479</a>	FARM ROBOTICS AND AUTOMATION SL [ES]	Poultry monitoring device, system and method
<a href="#">WO2025076594</a>	XCALIBUR MPH SWITZERLAND SA [CH]	System and method for remote detection of molecular atmospheric gases
<a href="#">WO2025128414</a>	MONSANTO TECHNOLOGY LLC [US]	Transgenic soybean event gm_csm63717 and compositions and methods for detection and uses thereof
<a href="#">WO2025118072</a>	VADERSTAD IND INC [CA]	Method and system for automated roller identification in volumetric metering systems

<a href="#">WO2025088305</a>	MAP IMPACT LTD [GB]	Ecological tool for monitoring changes in biodiversity
<a href="#">WO2025079106</a>	MAHYCO PRIVATE LTD [IN]	A computer implemented system for cotton yield prediction and method thereof
<a href="#">WO2025068809</a>	AGCO CORP [US]	Agricultural implement and method
<a href="#">WO2025099585</a>	BANAZADEH AFSHIN [IR]; SABETI MOHAMMADHASSAN [IR]; ASGHARI AMIRALI [IR]	Centrifugal force-based agricultural aerial spraying apparatus and method
<a href="#">WO2025132372</a>	UNIV MUENCHEN TECH [DE]	Plant sensor twa1 as molecular thermogenetic control switch and for improvement of thermotolerance and modifying of senescence
<a href="#">WO2025137451</a>	12 15 MOLECULAR DIAGNOSTICS INC [US]	Apparatus and method for detection of metal ions and peas pollutants in a sample
<a href="#">WO2025109228</a>	M2SENSORS S L [ES]	Sensor device for identifying xylophagous insects and method for using same
<a href="#">WO2025122020</a>	GAMA GROUP SZEPIETOWSCY SPOLKA JAWNA [PL]	Autonomous feed preparation vehicle and feed preparation system with the use of the autonomous feed preparation vehicle
<a href="#">WO2025071839</a>	HELIPONIX LLC [US]	Seed cartridge assembly
<a href="#">WO2025102992</a>	ZHEJIANG SUNSEEKER IND CO LTD [CN]	Mowing robot, and automatic steering calibration method therefor
<a href="#">WO2025115559</a>	KUBOTA KK [JP]	Field work vehicle
<a href="#">WO2025132235</a>	GERINGHOFF CARL GMBH CO KG [DE]	Harvesting attachment comprising control and regulating electronics
<a href="#">WO2025109401</a>	RPERCEPTION LTD [IL]	Pruning system and method thereof
<a href="#">WO2025069034</a>	THE STATE OF ISRAEL MINISTRY OF AGRICULTURE & RURAL DEVELOPMENT AGRICULTURAL RES ORGANIZATION ARO VO [IL]	Multiple-flowering cucurbita pepo subsp. Pepo plants and methods for their production
<a href="#">WO2025085949</a>	TOI PATENTENTWICKLUNGS GMBH [AT]	Device for controlling varroa mites
<a href="#">WO2025133686</a>	THE SMART MACHINE COMPANY LTD [NZ]; GLEDHILL NICHOLAS [NZ]; KERSLEY ANDREW HILTON [NZ]; LANGLOIS WALTER [NZ]	Canopy detection system and implement positioning system
<a href="#">WO2025079592</a>	UNIV HIROSHIMA [JP]	Method for diagnosing water stress in plant
<a href="#">WO2025115018</a>	MIGAL GALILEE RES INSTITUTE LTD [IL]	System and method for controlling ripening time of fruit

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## REDES DE SENSORES PARA ENTORNOS URBANOS O PÚBLICOS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
<a href="#">WO2025136164</a>	ERICSSON TELEFON AB L M [SE]	Methods and systems to configure a telecommunication network
<a href="#">WO2025119130</a>	HUAWEI TECH CO LTD [CN]	Beam pair determination method and apparatus
<a href="#">WO2025103463</a>	HUAWEI TECH CO LTD [CN]	Communication method and related apparatus
<a href="#">WO2025086163</a>	BEIJING XIAOMI MOBILE SOFTWARE CO LTD [CN]	Positioning measurement method, apparatus, device, communication system, and storage medium
<a href="#">WO2025111760</a>	GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP LTD [CN]	Communication methods, and device
<a href="#">WO2025139420</a>	HUAWEI TECH CO LTD [CN]	Communication method and device
<a href="#">WO2025129457</a>	BEIJING XIAOMI MOBILE SOFTWARE CO LTD [CN]	Wake-up method, communication system and storage medium
<a href="#">WO2025137970</a>	BEIJING XIAOMI MOBILE SOFTWARE CO LTD [CN]	Methods for sending and receiving capability information, apparatus, and storage medium
<a href="#">WO2025118976</a>	HUAWEI TECH CO LTD [CN]	Data measurement method and apparatus
<a href="#">WO2025130969</a>	BEIJING UNISOC COMM TECH CO LTD [CN]	Method for indicating duration of timer and communication device
<a href="#">WO2025102723</a>	HUAWEI TECH CO LTD [CN]	Method for sending sequence and communication apparatus
<a href="#">WO2025102548</a>	HUAWEI TECH CO LTD [CN]	Methods, apparatus, and systems for joint uplink encoding and decoding
<a href="#">WO2025138044</a>	BEIJING XIAOMI MOBILE SOFTWARE CO LTD [CN]	Information processing method, terminal, device, communication system, and storage medium
<a href="#">WO2025138161</a>	BEIJING XIAOMI MOBILE SOFTWARE CO LTD [CN]	Sensing service processing method and apparatus, and storage medium
<a href="#">WO2025139616</a>	HUAWEI TECH CO LTD [CN]	Communication method and apparatus, and system
<a href="#">WO2025138235</a>	BEIJING XIAOMI MOBILE SOFTWARE CO LTD [CN]	Management method and apparatus, communication device, communication system and storage medium
<a href="#">WO2025129621</a>	QUALCOMM INC [US]; LIU GUANGYI [CN]; SARKIS GABI [US]; MARSH GENE WESLEY [US]	Selective high-definition map downloading
<a href="#">WO2025103203</a>	HUAWEI TECH CO LTD [CN]	Polar coding method and apparatus
<a href="#">WO2025119137</a>	HUAWEI TECH CO LTD [CN]	Communication method and related device

<a href="#">WO2025138038</a>	GUANGDONG OPPO MOBILE TELECOMMUNICATI ONS CORP LTD [CN]	Wake-up signal receiving method and apparatus, device, medium, and program product
<a href="#">WO2025130589</a>	HUAWEI TECH CO LTD [CN]	Communication method and communication apparatus
<a href="#">WO2025111803</a>	GUANGDONG OPPO MOBILE TELECOMMUNICATI ONS CORP LTD [CN]	Wireless communication method and apparatus
<a href="#">WO2025086151</a>	GUANGDONG OPPO MOBILE TELECOMMUNICATI ONS CORP LTD [CN]	Method for wireless communication and terminal device
<a href="#">WO2025137847</a>	GUANGDONG OPPO MOBILE TELECOMMUNICATI ONS CORP LTD [CN]	Sensing method, apparatus and device, and storage medium
<a href="#">WO2025130681</a>	HUAWEI TECH CO LTD [CN]	Communication method and device
<a href="#">WO2025118271</a>	GUANGDONG OPPO MOBILE TELECOMMUNICATI ONS CORP LTD [CN]	Wireless communication method and communication device
<a href="#">WO2025096285</a>	QUALCOMM INC [US]	Passive or semi-passive device with polarization conversion capability
<a href="#">WO2025144059</a>	OWL SENTRY SP Z O O [PL]	A monitoring station for animal migration
<a href="#">WO2025139968</a>	HUAWEI TECH CO LTD [CN]	Resource allocation method, and related apparatus
<a href="#">WO2025139553</a>	ZTE CORP [CN]	Sensing cooperation methods, communication apparatus and storage medium

[...ver más](#)

## REDES DE SENSORES PARA DETECTAR INCENDIOS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
<a href="#">WO2025120434</a>	KAGHAZCHI FATEMEH [IR]	Comprehensive iot based monitoring and security system
<a href="#">WO2025136164</a>	ERICSSON TELEFON AB L M [SE]	Methods and systems to configure a telecommunication network
<a href="#">WO2025134055</a>	ERICSSON TELEFON AB L M [SE]	Configuring synchronization signal block on demand
<a href="#">WO2025099477</a>	ERICSSON TELEFON AB L M [SE]	Multiple radio usage input for load balancing
<a href="#">WO2025122852</a>	IEQMAX INC [US]	Improved air quality monitoring system and methods
<a href="#">WO2025096301</a>	ROBOTIC TECH ADMINISTRATION LLC [US]	Fire protection for a parking garage
<a href="#">WO2025102177</a>	IFTECH INVENTING FUTURE TECH INC [CA]	Wearable devices, systems, methods and architectures for sensory stimulation and manipulation, and physiological data acquisition and wearable haptic navigation system for use in navigating a user and or positioning a user's body along a safe egress path in obscured visibility environments
<a href="#">WO2025150780</a>	LG ELECTRONICS INC [KR]	Method and apparatus for selecting resource on basis of different directional beams
<a href="#">WO2025141585</a>	VOLUMEZ TECH LTD [IL]	A node based communication system and method

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## OTRAS REFERENCIAS

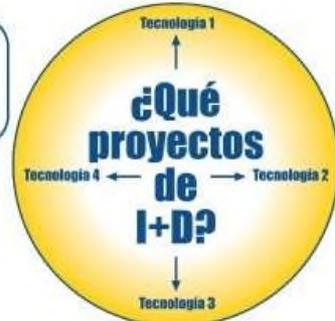
Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
<a href="#">WO2025120434</a>	KAGHAZCHI FATEMEH [IR]	Comprehensive iot based monitoring and security system
<a href="#">WO2025115205</a>	NIPPON TELEGRAPH & TELEPHONE [JP]	Data collection system
<a href="#">WO2025136164</a>	ERICSSON TELEFON AB L M [SE]	Methods and systems to configure a telecommunication network
<a href="#">WO2025133378</a>	LUXEMBOURG INST SCIENCE & TECH LIST [LU]	Method for reliable data collecting in edge networks
<a href="#">WO2025134055</a>	ERICSSON TELEFON AB L M [SE]	Configuring synchronization signal block on demand
<a href="#">WO2025122327</a>	VOLTA INSITE INC [US]	Node synchronization and event localization in industrial internet of things systems
<a href="#">WO2025151338</a>	INTERDIGITAL PATENT HOLDINGS INC [US]	Network configured communication mode
<a href="#">WO2025099477</a>	ERICSSON TELEFON AB L M [SE]	Multiple radio usage input for load balancing
<a href="#">WO2025096934</a>	INTERDIGITAL PATENT HOLDINGS INC [US]	Methods and apparatus for enhancing artificial intelligence machine learning (aiml) framework to support wireless transmit and receive unit (wtru) data collection
<a href="#">WO2025093171</a>	NOKIA TECHNOLOGIES OY [FI]	Vendor-specific data collection
<a href="#">WO2025125866</a>	ISLAMIC AZAD UNIV SCIENCE AND RESEARCH BRANCH [IR]; K BARMEHZYAR REZVAN [IR]; SOLEYMANI MOURCHEH KHORTI SOODABEH [IR]; MOHAMMADNEZHA D SHOURKAEI HOSSEIN [IR]	System for monitoring the condition of pumping stations and drinking water tanks using mf&ipm technologies based on new energies
<a href="#">WO2025120384</a>	MOMENI SAJAD [IR]	Device for measuring hazardous factors and safety control for construction management and oversight in civil and industrial environments
<a href="#">WO2025101583</a>	CONVIDA WIRELESS LLC [US]	Methods to enable sensing enablement services in 3gpp systems
<a href="#">WO2025150359</a>	OMRON TATEISI ELECTRONICS CO [JP]	Communication device, communication method, and communication program
<a href="#">WO2025121325</a>	TERRA LABO INC [JP]	Control system, control method, and control program
<a href="#">WO2025129234</a>	PROTECTIVE INNOVATIONS PTY LTD [AU]	Elevating work platform collision protection
<a href="#">WO2025150161</a>	NTT DOCOMO INC [JP]	Device and method
<a href="#">WO2025086497</a>	HUAWEI TECH CO LTD [CN]	Fast wakeup and data transmission methods using informative wakeup signals for wireless communications, and apparatuses, systems, and non-transitory computer-readable storage devices employing same

<a href="#">WO2025097100</a>	NEC LAB AMERICA INC [US]	Integrated distributed fiber optic sensing system for enhanced offshore wind turbine monitoring using physics-informed machine learning algorithms
<a href="#">WO2025097181</a>	CISCO TECH INC [US]	Controlling access point location crowdsourcing
<a href="#">WO2025093661</a>	BALDONI PAOLO [IT]	Advanced system and process for acquisition, analysis and dissemination of geolocalized data refereed to the cleaning and safeguarding of the marine, lake and river waters, by a specialized boat
<a href="#">WO2025097218</a>	BLUE CARBON PTY LTD [AU]	Method & system for measuring, understanding and managing oceans
<a href="#">WO2025121503</a>	TERA PLATFORM INC [KR]	Heat supply network management system using artificial intelligence and method for controlling same
<a href="#">WO2025100672</a>	NAT UNIV CHANGWON IND ACADEMY COOP CORPS [KR]	Device for monitoring state and predicting failure of wind turbine and method therefor
<a href="#">WO2025102177</a>	IFTECH INVENTING FUTURE TECH INC [CA]	Wearable devices, systems, methods and architectures for sensory stimulation and manipulation, and physiological data acquisition and wearable haptic navigation system for use in navigating a user and or positioning a user's body along a safe egress path in obscured visibility environments
<a href="#">WO2025121459</a>	FITOGETHER INC [KR]	Method for collecting information on location of sports player in real time
<a href="#">WO2025114802</a>	TAKE OFF DIFFUSION S A [CH]	Device, system and method for monitoring radiological risk
<a href="#">WO2025090695</a>	KARIA VIJAY [US]; ALLEN ALTON [US]	Methods and systems for facilitating managing clouds for a user
<a href="#">WO2025094202</a>	JIO PLATFORMS LTD [IN]	Method and system for managing trace data of users
<a href="#">WO2025109566</a>	TALLINN UNIV OF TECHNOLOGY [EE]	Hall effect sensor-based flow monitoring device and method
<a href="#">WO2025104855</a>	NIPPON TELEGRAPH & TELEPHONE [JP]	Information processing device, information processing method, and information processing program
<a href="#">WO2025119560</a>	NOKIA TECHNOLOGIES OY [FI]	Reporting of sensing measurement data from a ran node
<a href="#">WO2025147377</a>	PENN STATE RES FOUND [US]	Apparatus and method for evaluation of sensor data via undersampling of sensor data
<a href="#">WO2025129563</a>	QUALCOMM INC [US]; LIU GUANGYI [CN]; SARKIS GABI [US]	Channel auto-correlation in radio coverage maps

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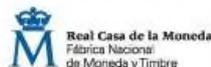
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Los ITPs\*\* de la OEPM detectaron solicitudes de patente relevantes cuando estábamos a mitad del proyecto y gracias a ello pudimos reconducir nuestra investigación.



Gracias a los ITPs\*\* de la OEPM hemos podido decidir la mejor forma de protección de nuestros resultados de I+D y redactar adecuadamente nuestras solicitudes de patente.



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