

Boletín VT

REDES DE SENSORES INALÁMBRICAS

49

1.º trimestre 2022

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, 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

NIPO: 116-19-015-9

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 2022047026 A1	BRISBY INC	Animal care and monitoring platform
WO 2022053047 A1	IBM	Sensor event coverage and energy conservation
WO 2022037731 A1	UNIV PARDUBICE	System for measuring temperature and moisture of air and soil with wireless data transmission and method of its production
WO 2022038462 A1	ONO EXPONENTIAL FARMING S R L	A system for controlling and managing hydroponic or similar cultivations on modular shelves
WO 2022053667 A1	ACO AHLMANN SE & CO KG	Irrigation and drainage device and/or water storage device, preferably for managing water, in particular irrigation of (green) spaces and/or plants
WO 2022008407 A1	SIGNIFY HOLDING BV	Baselining criteria for rf sensing in horticulture application
WO 2022039283 A1	BOSIRE BRIAN	Wireless soil tester with real-time output
WO 2022049552 A1	KREBS PAYSAGISTES SA	Method and system for tracking, monitoring and predicting the health of a plant heritage
WO 2022051600 A1	BUCKMAN LABORATORIES INT INC	Predictive systems and methods for proactive intervention in chemical processes
WO 2022043510 A1	BASF AGRO TRADEMARKS GMBH	Machine-enabled farming
WO 2022023436 A1	SYNGENTA CROP PROTECTION AG	Plant injection apparatus and method
WO 2022045338 A1	AMATERZ INC	Communication terminal device
WO 2022051617 A1	AQUASYS LLC	Synthetic agricultural sensor
WO 2022040756 A1	RUBICON RES PTY LTD	Refill point or target deficit for crop irrigation
WO 2022050467 A1	ELSYS CO LTD	E-iot-based smart farm environmental data collection device using renewable energy
WO 2022017921 A1	RUXBURY APS	Sensor device and method for horse monitoring
WO 2022019230 A1	BAYER CROPSOURCE KK	Display device and method for controlling said display device
WO 2022031513 A1	HILLS PET NUTRITION INC	System and method for determining caloric requirements of an animal
WO 2022032614 A1	JIANGSU TIANREN INDUSTRIAL INTERNET RES INSTITUTE CO LTD	5g-based smart agricultural greenhouse monitoring system
WO 2022003556 A1	GSI GROUP LLC	Poultry feeder line sensor tube overflow
WO 2022040349 A1	BLUE RIVER TECH INC	Plant identification using dynamic cropping
WO 2022017924 A1	RUXBURY APS	Sensor assembly for horse monitoring and a method of attaching a sensor assembly to a horse
WO 2022032329 A1	AGRICULTURE VICTORIA SERV PTY	System and method for image-based remote sensing of crop plants
WO 2022034589 A1	SHABAT MATAN	Method, system and device for growing products and delivery of the same
WO 2022047143 A1	PLANT LIFE INC	Integrated plant-based social platform and plant care utility
WO 2022013506 A1	DESVAC	Method and apparatus for delivering fluid droplets onto an open and stationary tray
WO 2021262834 A1	HYPER HYVE LLC	Beehive

WO 2021260914 A1	NEC CORP	Feed management device, feed management method, feed management system, and computer-readable recording medium
WO 2022010372 A1	INST BIOSENS ISTRAZIVACKO RAZVOJNI INST ZA INFORMACIONE TEHNOLOGIJE BIOSISTEMA	System and method for intelligent soil sampling
WO 2022036107 A1	THERMACELL REPELLENTS INC	Linkable insect repeller station and control system
WO 2021259886 A1	SIGNIFY HOLDING BV	A sensing system for determining a parameter of a set of animals
WO 2021261246 A1	KUBOTA KK	Agricultural robot and assistance system for agricultural robot
WO 2022010005 A1	HYPOT CO LTD	Plant-cultivable aquarium device
WO 2022023367 A1	MODUS IOT LTD	Determination of methane emitted by ruminants
WO 2022031432 A1	LINDSAY CORP	Wheel track monitoring system for an irrigation system
WO 2022023333 A1	INFARM INDOOR URBAN FARMING GMBH	Automatic vertical farming system and method for growing plants in a soilless growing environment
WO 2022009739 A1	HITACHI LTD	Vegetation management system and vegetation management method
WO 2022000098 A1	PENALOZA GONZALEZ ANDRES	Method and system for monitoring and controlling the presence of at least one type of insect in agricultural crops
WO 2022031426 A1	LINDSAY CORP	Maintenance monitoring and reporting system for a mobile agricultural irrigation system
WO 2022013429 A1	STRYGGOO BV	Rodent trap
WO 2022036419 A1	MORAIS JUNIOR NILSON NUNES	System for real-time monitoring of milk, water, feed/concentrate consumption and yield for suckling calves in individual pens, individual pens on footings, sheds and the like
WO 2022051483 A1	CLIMATE CORP	Detecting contamination or feature mixing within harvest polygons at a vector level
WO 2021251843 A1	FERMATAGRO TECH LIMITED	Device for monitoring plant health
WO 2022045382 A1	E MOTION CO LTD	System for improving poultry productivity through artificial intelligence optimal environment control
WO 2022031471 A1	LOCAL BOUNTI CORP	System and method for plant indexing in a hydroponic farming environment and a hydroponic farming environment
WO 2022026206 A1	LINDSAY CORP	Fault notification system and method for use with an irrigation system
WO 2022026504 A1	QSM DIAGNOSTICS INC	Sample handling for diagnostics
WO 2022004035 A1	MITSUBISHI ELECTRIC CORP	Livestock management system, learning device and inference device, and biometric monitoring system
WO 2022026254 A1	LINDSAY CORP	System and method for detecting ponding in irrigated fields
WO 2021255731 A1	CO EXIST LTD	Livestock restraining devices, systems for livestock management, and uses thereof
WO 2022010602 A1	SCYTHE ROBOTICS INC	Degraded performance detection and control
WO 2022027090 A1	SEYMOUR NICHOLAS	A device for indicating a liquid level in a liquid container
WO 2021262500 A1	THE TORO CO	Turf management systems and methods
WO 2022029471 A1	RYNAN TECH PTE LTD	Smart aquaculture grow out system
WO 2022010815 A1	ECTO INC	Acoustics augmentation for monocular depth estimation
WO 2022024206 A1	PURANTEKU CO LTD	Method for cultivating plant, and device for cultivating plant
WO 2022015866 A1	WOVA LABS INC	Seed development environment system
WO 2022015929 A1	GRIBBLE TED A	Soaking system and method for an individual animal station
WO 2022020367 A1	PSIMOS INC	Smart fertilizer delivery system
WO 2022035401 A2	YULUG AHMET OMER	Irrigation system management with adjustable sensitive touch sensors
WO 2022035975 A2	25 2 SOLUTIONS LLC	Crop crate
WO 2022013865 A1	PHYTECH LTD	Method and system for predicting fruit quality
WO 2021251969 A1	TEXAS STATE UNIV	Autonomous farming growth control and maintenance systems
WO 2021262069 A2	DELAVAL HOLDING AB	System and computer-implemented method for monitoring operating pressure in a milking installation, computer program and non-volatile data carrier

WO 2021263193 A1	UNICORN LABS LLC	Smart sensor
WO 2021258077 A1	CLIMATE ROBOTICS INC	Autonomous device for in-field conversion of biomass into biochar

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REDES DE SENSORES PARA ENTORNOS URBANOS O PÚBLICOS

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2022043997 A1	AQUALITAS TECH LTD	Fluid quality monitoring system and method
WO 2022013065 A1	SIGNIFY HOLDING BV	Water detection device
WO 2022013444 A1	HD SIGNS	Road traffic system
WO 2022002411 A1	NOKIA SOLUTIONS & NETWORKS OY	Managing quality of monitoring models for collection of performance and/or sensing data
WO 2021236426 A1	NEC LAB AMERICA INC	Physical layer security in network sensing architecture
WO 2022054050 A1	UTILIS ISRAEL LTD	System and method for determining infrastructure risk zones
WO 2022045875 A1	MIMOS BERHAD	System and method for qualitative internet of things communications
WO 2022043539 A1	GREEN TECH INNOVATIONS	Improved lighting device
WO 2021259468 A1	VOLVO TRUCK CORP	Coordination of sensors in proximity
WO 2021259469 A1	VOLVO TRUCK CORP	Local measurements using multiple moving sensors
WO 2022040810 A1	AIRDAR INC	Air sampling system and method
WO 2022049378 A1	AIRSENSA PRODUCTS LTD	Automated sensor calibration device
WO 2022023673 A1	COMIN	Method for monitoring vibrations
WO 2022040611 A1	UBICQUIA IQ LLC	Automated virtual tripwire placement
WO 2021253054 A1	CONTINENTAL AUTOMOTIVE SYSTEMS INC	System and method for intelligent infrastructure calibration
WO 2021255278 A1	SCHREDER SA	Method and system for performing management of a luminaire network
WO 2022033516 A1	HUAWEI TECH CO LTD	Sensing method and apparatus
WO 2022002618 A1	BOSCH GMBH ROBERT	Road side unit and its method, computer storage medium and vehicle networking system
WO 2022038674 A1	NIPPON TELEGRAPH & TELEPHONE	Device control equipment, device control program, environment classification equipment, and actuator control equipment
WO 2021256824 A1	GOOIL ENG CO LTD	Indoor environment control system using smart window
WO 2022012642 A1	JINGDONG TECH HOLDING CO LTD	System and method for 3d object detection and tracking with monocular surveillance cameras
WO 2022027400 A1	NANJING LISHUI HIGH TECH VENTURE CAPITAL MAN CO LTD	Video online monitoring apparatus for dust and noise
WO 2022005738 A1	ARRIS ENTPR LLC	Gap and gatt adaptation protocol over internet protocol
WO 2022034968 A1	WATER EYES CO LTD	Integrated information provision system using multi-item water quality measurement for building smart water city
WO 2022029779 A1	CANARIO LTD	Method and system for identifying air quality
WO 2022026366 A1	VIEW INC	Atmospheric adjustment in an enclosure
WO 2022006546 A1	ENERGY OPTIMIZATION SYSTEM LABORATORIES LLC	Methods for remote building intelligence, energy waste detection, efficiency tracking, utility management and analytics
WO 2022015487 A1	INTEL CORP	Federated learning for multiple access radio resource management optimizations

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REDES DE SENSORES PARA DETECTAR INCENDIOS

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

WO 2022043827 A1	3M INNOVATIVE PROPERTIES CO	Systems and methods for monitoring worker fitness
WO 2021236986 A1	QUALCOMM INC	Carbon monoxide warning system and devices
WO 2021257882 A1	HALE PRODUCTS INC	Fire truck valve checker system and method
WO 2022046272 A1	SIEMENS INDUSTRY INC	Network distribution using common communication and power
WO 2022053978 A1	TYCO FIRE PRODUCTS LP	Device to adjust electronic sprinkler trigger
WO 2022054003 A1	TYCO FIRE PRODUCTS LP	Systems and methods for analysis of pipe leakage and room air integrity
WO 2022029819 A1	MORE S R L	Industrial steel plant and connected monitoring apparatus and method
WO 2022049456 A1	TYCO FIRE PRODUCTS LP	Systems and methods for supervisory for valve
WO 2022012465 A1	ZEPHYR INTELLIGENT SYSTEM SHANGHAI CO LTD	Battery pack having intelligent fixed-point fire extinguishing function
WO 2021262020 A1	INSTITUTO DE SISTEMAS E ROBOTICA DA UNIV DE COIMBRA	Autonomous portable firefighting system and respective method of operation
WO 2022000279 A1	SIEMENS AG	Fire extinguishing system, server, fire-fighting robot, and fire extinguishing method
WO 2022030735 A1	PARK KI TAE	Building monitoring system capable of individual real-time fire detection of each fire-prevention compartment using sensor for filling perforation part
WO 2022009120 A1	JOHNSON CONTROLS TYCO IP HOLDINGS LLP	Fire suppression system for a battery enclosure
WO 2022012453 A1	ZEPHYR INTELLIGENT SYSTEM SHANGHAI CO LTD	Smart heat-triggered fire extinguishing apparatus and method, battery pack, energy storage system, and vehicle
WO 2022019925 A1	LION GROUP INC	Array-based capacitance sensor device and methods for the detection of applied streams of water or other extinguishants
WO 2022027549 A1	JIANG DAOLIAN	Building integral fire safety intelligent system
WO 2022006563 A1	TRACKONOMY SYSTEMS INC	Invisible industrial internet-of-things
WO 2022033878 A1	OCADO INNOVATION LTD	Storage system, methods and devices
WO 2022023532 A1	FIREANGEL SAFETY TECH LIMITED	Smoke alarm
WO 2022022265 A1	ZEPHYR INTELLIGENT SYSTEM SHANGHAI CO LTD	Fire extinguishing system, and ship
WO 2022030936 A1	ATOMY CO LTD	Smart electronic heating machine and operation method therefor

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OTRAS REFERENCIAS

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2022059826 A1	4STEC INC	Digital twin environment-based convergence-type smart-iot connected middleware device, and method for providing same
WO 2022048996 A1	SIEMENS GAMESA RENEWABLE ENERGY AS	Controlling the operation of a wind turbine
WO 2022040191 A1	THE ADT SECURITY CORP	Auto-configuring of battery operated devices in a premises security system
WO 2022042889 A1	ERICSSON TELEFON AB L M	Technique for determining a safety-critical state
WO 2021226698 A1	ENVIRONMENTAL MAT SCIENCE INC	Methods and systems for stimulating the biological degradation of hydrocarbons in contaminated soils
WO 2021258116 A1	HONEYWELL INT INC	Systems and methods for reducing risk of pathogen exposure within a space
WO 2022046098 A1	SIEMENS AG	Endpoint registry across ecosystems
WO 2022053147 A1	SWISS REINSURANCE CO LTD	Mobile device and system for identifying and/or classifying occupants of a vehicle and corresponding method thereof
WO 2022039873 A1	SIEMENS INDUSTRY INC	Systems and methods for fault diagnostics in building automation systems
WO 2022045876 A1	MIMOS BERHAD	A system and method for managing work schedule of a worker
WO 2022015340 A1	SAUDI ARABIAN OIL CO	Di-ketone absorbance analysis as measure for h2s content in a gas.
WO 2022050461 A1	LG ELECTRONICS INC	Method and apparatus by which wireless device cooperates with another device to perform wireless sensing on basis of wireless sensing
WO 2022046259 A1	BUILDING ROBOTICS INC	System and method for tracking low powered beacon tags
WO 2022046037 A1	GOOGLE LLC	Expressing multicast groups using weave traits
WO 2022048981 A1	GEOBRUGG AG	Sensor network-based analysis and/or prediction method, and remote monitoring sensor device
WO 2021235610 A1	LEE CHANG HOON	System and method for storing cut flowers
WO 2021258105 A1	PENTAIR WATER POOL & SPA INC	Monitoring and controlling connected pool devices
WO 2022008314 A1	TETRA LAVAL HOLDINGS & FINANCE	A method for controlling a food handling system
WO 2022048941 A1	BELIMO HOLDING AG	Electronic access control device for controlling data access to hvac devices of an hvac system
WO 2022044612 A1	NEC CORP	Environment information acquisition system, environment information acquisition method, and recording medium
WO 2022038849 A1	MITSUBISHI ELECTRIC CORP	Contactless elevator service for an elevator based on augmented datasets
WO 2022050861 A1	SAUDI ARABIAN OIL CO	Enhancement of single sensor seismic data
WO 2022002324 A1	VESTAS WIND SYS AS	Data collection system and method for renewable energy power plant
WO 2022011121 A1	COMPUTIME LTD	Enhancement for thermostat programmability
WO 2022051572 A1	CAMERON INT CORP	Greenhouse gas emission monitoring systems and methods
WO 2022051415 A1	ECOTEC SOLUTIONS INC	Modular landfill gas measurement
WO 2022013288 A1	SOLTEC INNOVATIONS S L	Single axis solar tracker management method and solar plant implementing said method
WO 2022036457 A1	BOSS PACKAGING INC	Wireless sensor unit
WO 2022006701 A1	LASER INST OF SHANDONG ACADEMY OF SCIENCE	Multi-wavelength laser for synchronously monitoring temperature and pressure of ocean
WO 2022032649 A1	ERICSSON TELEFON AB L M	Method and apparatus for processing at least one activity regarding a physical entity

WO 2022044511 A1	DAIKIN IND LTD	Air composition adjusting device, refrigeration device, container, and air composition adjusting method
WO 2022033666 A1	RE COMPANY SA	Smart bottle
WO 2022040343 A1	APPLIED MATERIALS INC	Integrated optical sensor controller for device manufacturing machines
WO 2022051261 A1	ALARM COM INC	Drone-assisted thermal monitoring techniques
WO 2021260732 A1	BARIFLOLABS PRIVATE LTD	Intelligent waterbody management system
WO 2022044388 A1	HITACHI GLOBAL LIFE SOLUTIONS INC	Monitoring device, monitoring method, and monitoring program
WO 2022047519 A1	PROA ANALYTICS PTY LTD	Wildlife detection and deterrent system and method for environmental instrumentation
WO 2021262420 A1	SAUDI ARABIAN OIL CO	Method of placing gas sensors on drones to benefit from thrust air flow via placement and scoops
WO 2022008366 A1	SIEMENS GAMESA RENEWABLE ENERGY AS	Wind turbine and retrofitting system and method for at least one wind turbine
WO 2022005975 A1	MAGSEIS FF LLC	Seismic data acquisition unit apparatus and positioning systems and methods
WO 2022018388 A1	SERCEL RECH CONST ELECT	Method for monitoring the physical state of a rail
WO 2022019926 A1	SAUDI ARABIAN OIL CO	System and method for acquiring wellbore data
WO 2021262944 A1	CHEMOURS CO FC LLC	Method for determining light penetration of a package system
WO 2022039669 A1	PANASONIC IP CORP AMERICA	Communication apparatus and communication method for wireless local area network sensing
WO 2022040289 A1	HUUPE INC	Interactive basketball system
WO 2022023732 A1	PROSERV UK LTD	Cable monitoring system
WO 2021261656 A1	XAVISNET INC	Apparatus and system for providing security monitoring service based on edge computing, and operation method thereof
WO 2022032386 A1	SMT RES LTD	Method and system with multi-conductor sensors for moisture monitoring of structures
WO 2022042607 A1	CHAO CHIN WEI	Network neuron communication transmission system and method
WO 2021259805 A1	SIGNIFY HOLDING BV	Channel state information forwarding in passive wireless sensing network
WO 2022003964 A1	NIPPON TELEGRAPH & TELEPHONE	Data collection system, terminal, data collection method, and program
WO 2022034389 A1	EVERSEEN LTD	System and method for mapping risks in a warehouse environment
WO 2022045444 A1	KIM GA EUN	System for controlling underwater fishing lamp
WO 2022004316 A1	PANASONIC IP MAN CO LTD	Control system, environmental sensor, control method, and notification method
WO 2022032090 A1	NEC LAB AMERICA INC	Federated learning for anomaly detection
WO 2022045943 A1	STREAM ANALYZE SWEDEN AB	Method and system for data processing
WO 2022014773 A1	CHOI GI DO	System and method for indoor environment monitoring
WO 2022015493 A1	WINDESCO INC	Methods and systems of advanced yaw control of a wind turbine
WO 2022013596 A1	JDRF ELECTROMAG ENG INC	Optical resolution reduction elements
WO 2022006702 A1	SHANDONG ACAD OF SCIENCES	Continuous spatial synchronization monitoring device for ocean temperature and pressure
WO 2022005407 A1	SCG PACKAGING PUBLIC COMPANY LTD	Odor detecting and monitoring system and the method thereof
WO 2022016011 A1	APPLIED MATERIALS INC	Anomaly detection from aggregate statistics using neural networks
WO 2022017572 A1	GO DOGO APS	Automatic detection of treat release in an autonomous pet interaction device
WO 2022019115 A1	SONY GROUP CORP	Information processing device, information processing method, and information processing system
WO 2022003213 A1	3D OBSERVER PROJECT S L	System and method for detecting birdlife in wind farms
WO 2022011487 A1	RENDIC MUNOZ MARIO FRANCISCO	A continuous condition monitoring (ccm) system for conveyor belts based on a distributed optical fibre sensor

WO 2022006227 A1	SOTER TECH LLC	Systems and methods for location-based electronic fingerprint detection
WO 2022005406 A1	NAT UNIV SINGAPORE	Ear-based core body temperature monitoring system
WO 2022015396 A1	MICROSOFT TECHNOLOGY LICENSING LLC	Modifying operation of sensors using collected sensor data
WO 2022005367 A1	CLIMEON AB	Method and turbine control system for controlling rotational speed of a turbine
WO 2022020304 A1	SENSYTEC INC	Thermo-piezoresistive embedded wireless sensor with real-time concrete monitoring
WO 2022026931 A1	TRACKONOMY SYSTEMS INC	System and methods of electronics sampling to optimize system performance, cost, and confidence levels
WO 2022031897 A1	PAVEL & SPRAUVE LLC	Methods, systems, and devices for portable environment controlled containers
WO 2022023611 A1	UNIV ALCALA HENARES	Device for automatic protection and monitoring of electrical and magnetic fields
WO 2022046838 A1	FTC SOLAR INC	Systems and methods for adaptive range of motion for solar trackers
WO 2021251292 A1	PANASONIC IP MAN CO LTD	Refrigerator control system, refrigerator, program, and terminal device
WO 2022018715 A1	INDOOR ROBOTICS LTD	System and a method for validating occurrence of events
WO 2022024038 A1	MOLEX LLC	Smart digital computer platform to display fugitive emissions of a facility
WO 2022020027 A1	ADEMCO INC	Temperature compensation for low-voltage thermostats
WO 2022026166 A1	VALMONT INDUSTRIES	System and method for detecting end gun status
WO 2022019423 A1	SAMSUNG ELECTRONICS CO LTD	Electronic apparatus and method of controlling thereof
WO 2021260452 A1	MCLANE COMPANY INC	Tamper resistant data management in a sensor network
WO 2022014993 A1	SUN HST CO LTD	Industrial wireless sensor system
WO 2022000072 A1	NAT RES COUNCIL CANADA	Monitoring liner wear in industrial mills
WO 2022025426 A1	SAMSUNG ELECTRONICS CO LTD	Electronic device for providing recommended location of air cleaner and control method thereof

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