

El Consejo de Europa define la **dependencia** como *"la necesidad de ayuda o asistencia importante para las actividades de la vida cotidiana", o, de manera más precisa, como "un estado en el que se encuentran las personas que, por razones ligadas a la falta o la pérdida de autonomía física, psíquica o intelectual, tienen necesidad de asistencia y/o ayudas importantes a fin de realizar los actos corrientes de la vida diaria y, de modo particular, los referentes al cuidado personal"*.

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 aspectos tales como la accesibilidad de las

personas mayores o con algún tipo de discapacidad a las nuevas tecnologías de la información y comunicaciones, los dispositivos de ayuda a la movilidad física o la atención de personas en situación de dependencia a través de servicios de teleasistencia domiciliaria y monitorización remota.

De este modo, el boletín, de periodicidad trimestral, recogerá las publicaciones más recientes de solicitudes internacionales de patentes (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:

- [Accesibilidad a las nuevas tecnologías de la información](#)
- [Ayuda a la movilidad](#)
- [Teleasistencia sanitaria](#)
- [Otras referencias](#)

NIPO: 116-19-012-2

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.

ACCESIBILIDAD A LAS NUEVAS TECNOLOGÍAS DE LA INFORMACIÓN

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2022184253 A1	ERICSSON TELEFON AB L M	A computer software module arrangement, a circuitry arrangement, an arrangement and a method for an improved user interface for internet of things devices
WO 2022184394 A1	WIDEX AS	A hearing aid system and a method of operating a hearing aid system
WO 2022128083 A1	SIVANTOS PTE LTD	Method for determining the hearing effort of a hearing aid wearer and corresponding adjustment of hearing aid parameters
WO 2022167085 A1	WIDEX AS	A method of optimizing parameters in a hearing aid system and an in-situ fitting system
WO 2022135990 A1	TLA ENTREPRISES	Device for accelerating a vehicle
WO 2022175950 A1	TECHNION RES & DEV FOUNDATION	Haptic feedback device and a method of controlling same
WO 2022128082 A1	SIVANTOS PTE LTD	Method for operating a hearing system, and hearing system
WO 2022144569 A1	UNIV CATOLICA DE LA SANTISIMA CONCEPCION	Method enabling the drawing of digital lines, and also providing a means of communication, for use by persons with a visual impairment, a motor impairment or dysphasia
WO 2022131891 A1	BELTRAN RAMIREZ JESUS RAUL	Assistive device for blind persons
WO 2022126295 A1	UNIV DIEGO PORTALES	System and method for kinesthetic auditory transduction
WO 2022132100 A1	ATATUERK UENIVERSITESI REKTOERLUEGUE BILIMSEL ARASTIRMA PROJELERI BAP KOORDINASYON BIRIMI	Portable braille printer system for the visually impaired people
WO 2022131890 A1	BELTRAN RAMIREZ JESUS RAUL	Sound detection and alerting device for persons with hearing loss
WO 2022145827 A1	DOT INC	Layer-based service provision device and method having enhanced information accessibility
WO 2022153915 A1	BOCO INC	Bone conduction device
WO 2022162276 A1	SEETRUE TECH OY	Eye tracking illumination
WO 2022159607 A1	UNIV SOUTHERN CALIFORNIA	Non-invasive ultrasound neuromodulation for vision restoration from retinal diseases
WO 2022165317 A1	QUID PRO CONSULTING LLC	Systems and methods for improving functional hearing
WO 2022170211 A1	UNIV WASHINGTON	Reprogrammable systems and methods for controlling the same
WO 2022145894 A1	LIGHTVISION CORP	System and method for moving body number recognition and information notification
WO 2022155481 A1	SMITHSONIAN INST	System and method for a replacement touchless button
WO 2022177046 A1	ROWAN INC	System and method for development of cognitive ability, and computer program therefor

[...ver más](#)

AYUDA A LA MOVILIDAD

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
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WO 2022189953 A2	ROSSIGNOLI LUCA	Aid device for the movement of disabled or reduced mobility persons
WO 2022187324 A1	UNIV PITTSBURGH COMMONWEALTH SYS HIGHER EDUCATION	System and method for assessment of stroke patients and personalized rehabilitation
WO 2022129479 A1	OTTOBOCK SE & CO KGAA	Knee orthosis
WO 2022125464 A1	SARCOS CORP	Method for redundant control policies for safe operation of an exoskeleton
WO 2022129084 A1	ABLE HUMAN MOTION S L	Powered-knee exoskeleton system
WO 2022129169 A1	ETH ZUERICH	A system to interface a physical training device and commercial videogames
WO 2022189658 A1	FRAUNHOFER GES FORSCHUNG	Extremity-supporting device, and method for lifting, holding and/or carrying a load and/or for performing overhead activities
WO 2022129784 A1	WANDERCRAFT	Method for moving an exoskeleton
WO 2022125465 A1	SARCOS CORP	Method for sensor suite discrepancy detection and safe operation of a robotic exoskeleton
WO 2022182008 A1	CAMTIC ADVANCED MECHATRONICS TECH INSTITUTE FOR COMMERCIALIZATION	Room-covering rail system
WO 2022183009 A1	UNIV SOUTHERN CALIFORNIA	Neurofeedback rehabilitation system
WO 2022124154 A1	SONY GROUP CORP	Information processing device, information processing system, and information processing method
WO 2022122691 A1	BOCK OTTO HEALTHCARE PROD GMBH	Method for analyzing useful data of an orthopedic device
WO 2022139031 A1	CYBERMEDIC CO LTD	Rehabilitation diagnosis training system and rehabilitation diagnosis training method
WO 2022125476 A1	UNIV ARIZONA STATE	Hip exoskeleton structure for lifting and pushing
WO 2022167582 A1	NAME SWORD HEALTH S A	Multi-input automatic monitoring of motion tracking system and actuation
WO 2022149630 A1	DOT INC	User-responsive smart sidewalk system
WO 2022145915 A1	HEXARHUMANCARE CO LTD	Exoskeleton-type rehabilitation robot system
WO 2022141028 A1	LI CHUNHUA	Safety crutch for assisting with walking
WO 2022161855 A1	SC DOTLUMEN SRL	A computer-implemented method, wearable device, non-transitory computer-readable storage medium, computer program and system for assisting the movement of a visually impaired user
WO 2022169050 A1	TAGFREE CO LTD	Walking guide system
WO 2022146252 A1	UNIV OZYEGIN	An exoskeleton system
WO 2022172648 A1	SONY GROUP CORP	Information processing device, information processing method, and program
WO 2022149734 A1	NAT REHABILITATION CT	Simulation device for electric moving device and simulation method using same
WO 2022157648 A1	NEUROLUTIONS INC	Systems and methods for remote motor assessment
WO 2022153792 A1	SONY SEMICONDUCTOR SOLUTIONS CORP	Approach avoidance system and galvanic vestibular stimulation device
WO 2022173076 A1	UNIV CHUNG ANG IND ACAD COOP FOUND	Pneumatic artificial muscle unit using elastic energy, and operation method therefor
WO 2022125462 A2	SARCOS CORP	Sensor suite discrepancy detection system for safe operation of an exoskeleton
WO 2022149165 A1	DEELEE LABS PRIVATE LTD	A system and method for controlling an assistive device

WO 2022159058 A2	SUELEYMAN DEMIREL UNIVERSITESI	A device system with biofeedback for blood flow restricted exercises
WO 2022143359 A1	REHAB ROBOTICS COMPANY LTD	Wearable system
WO 2022149054 A1	STEP HEAR SYSTEMS LTD	Guiding a person while moving in a certain area
WO 2022146251 A1	UNIV OZYEGIN	A chairless chair exoskeleton

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TELEASISTENCIA SANITARIA

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
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WO 2022187894 A1	RYALEX HOLDINGS PTY LTD	A motionless person detection system
WO 2022185079 A1	THORN SECURITY	Emergency call method and device
WO 2022184801 A1	UNIV POMPEU FABRA	Implantable sensor for measuring and monitoring intravascular pressure, system comprising said sensor and method for operating thereof
WO 2022184638 A1	INBRAIN NEUROELECTRONICS SL	Neuromodulation device programming optimizing method and system
WO 2022180773 A1	NIPPON TELEGRAPH & TELEPHONE	Notification device, notification method, and program
WO 2022191806 A1	UNIV YILDIZ TEKNİK	Warning and reporting system for the non-contact detection, control and monitoring of body temperatures
WO 2022185541 A1	NEC CORP	Monitoring system, monitoring method, and recording medium
WO 2022186915 A1	EVOLUTION OPTIKS LTD	Head-mountable oculomotor assessment device and system, and method of using same
WO 2022180467 A1	EUDONTICAERRE SRL	System for monitoring and communication between patient and doctor
WO 2022184971 A1	MARICARE OY	Sensor and system for monitoring
WO 2022180434 A1	UNIV MALTA	Foot monitoring method and system
WO 2022129812 A1	ADVANCED ECHO TECH	Robot-assisted tele-echography probe
WO 2022187551 A1	EVOLUTION OPTIKS LTD	Vision-based cognitive impairment testing device, system and method
WO 2022182081 A1	SAMSUNG ELECTRONICS CO LTD	Electronic device and operating method thereof
WO 2022149092 A1	CIRCADIA TECH LTD	Systems, apparatus and methods for acquisition, storage, and analysis of health and environmental data
WO 2022153103 A1	GENES SRL	Device for identifying, saving and storing data
WO 2022167542 A1	UNIV GENEVE	Task-related high-density eeg-guided tacs treatment of cognitive and behavioral deficits
WO 2022182182 A1	MEDICALAI CO LTD	System and method for generating electrocardiogram on basis of deep learning algorithm
WO 2022146164 A1	LLC ANNNIGM	System and method for noninvasively determining blood glucose concentration
WO 2022176635 A1	NEC CORP	Monitoring assistance device, system, and method; and computer-readable medium
WO 2022182893 A1	J MANN 8 LLC D/B/A LILATECH SYSTEMS	Systems and methods for tracking location
WO 2022144455 A1	HOFFMANN LA ROCHE	Beacon-based location detection
WO 2022167864 A1	ROCKLEY PHOTINICS LTD	System
WO 2022170150 A1	UNIV CALIFORNIA	Diagnosing and tracking stroke with sensor-based assessments of neurological deficits
WO 2022150665 A1	THIAGARAJAN ARVIND	Systems and methods for a personal medical monitoring device
WO 2022169682 A1	CHILDRENS MEDICAL CT CORP	Video-based automated detection of generalized tonic-clonic seizures using deep learning
WO 2022155248 A1	PRENOSIS INC	Systems and methods for generating an interactive patient dashboard
WO 2022159752 A1	TRACKLET INC	System and method for using a wearable device with biofeedback sensors to mitigate disease transmission
WO 2022148639 A1	BRITISH TELECOMM	A wireless sensing method
WO 2022175772 A1	COCHLEAR LTD	Wakefulness-level tinnitus therapy
WO 2022170342 A1	SYNCHRON AUSTRALIA PTY LTD	Neuromonitoring diagnostic systems
WO 2022170163 A1	LIFE SCIENCES LLC	Apparatus and method for wound care device
WO 2022182956 A1	UNIV WASHINGTON	Remote monitoring of oxygenation status and blood pulsation within skin tissue

WO 2022153110 A1	SENTERCARE LTD	Monitoring persons in a room
WO 2022149447 A1	NATIONAL UNIV CORPORATION SHIMANE UNIV	Control device, control program, display system, and control method
WO 2022152969 A1	MARICARE OY	Sensor and system for monitoring
WO 2022168105 A1	GUPTA ASEEM	A textile gateway connector for embedded textile electronics, sensors and digital components

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OTRAS REFERENCIAS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2022184483 A1	MIELE & CIE	Method for operating a cooking appliance, and cooking appliance
WO 2022136972 A1	FAEZ SHAHROKH	A portable auxiliary device for wearing trousers and undergarments
WO 2022185334 A1	BIONIC HOPE PRIVATE LTD	Sensory feedback system
WO 2022148965 A1	BINDING SCIENCES LTD	A liquid capture device
WO 2022124398 A1	MITSUBISHI ELECTRIC CORP	Remote control manipulator system and remote control assistance system
WO 2022169724 A1	AMGEN INC	Coaxial needle adapter and guide bracket for robotic liquid handling platform
WO 2022169748 A1	JCYTE INC	Low luminance mobility test
WO 2022133319 A1	MONTI KIDS INC	Systems, methods, and devices for a stand
WO 2022170236 A1	MIDAS HEALTHCARE SOLUTIONS INC	Systems and methods for tracking items
WO 2022131326 A1	MAGIC SHIELDS INC	Handrail
WO 2022124876 A1	GARCIA VILLAREAL MARCO ANTONIO	System for a shower head, with a rotary body, flow regulator, hinged arm, wall mount and reinforced connector
WO 2022154806 A1	HEWLETT PACKARD DEVELOPMENT CO	Determination of person state relative to stationary object
WO 2022149132 A1	NANOSE MEDICAL LTD	Detection of respiratory tract infections (rtis)
WO 2022146033 A1	SAMSUNG ELECTRONICS CO LTD	Electronic device and voice input/output control method of electronic device
WO 2022150393 A1	SYNEXIS LLC	Microbial control on high-touch surfaces in health care facilities
WO 2022140545 A1	SAGE PRODUCTS LLC	Devices and systems for urine collection
WO 2022147269 A1	CLARALERT INC	System and method for time expiration reminder for medical care

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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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