

Boletín VT eDEPENDENCIA

54

2.º trimestre 2023

Vigilancia Tecnológica



Oficina Española
de Patentes y Marcas

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



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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 2023097085 A2	TWENTY TWENTY THERAPEUTICS LLC	Intraocular laser projection system
WO 2023097277 A1	HEARING GLASSES LLC	Smart glasses to assist those who are deaf or hard of hearing
WO 2023106510 A1	JIN YIN JI	Online integrated service provision system
WO 2023099223 A1	ESSILOR INT	Computer-implemented method, apparatus, system and computer program for controlling a sightedness impairment of a subject
WO 2023094250 A1	ESSILOR INT	Computer-implemented method, apparatus, system and computer program for providing a user with a representation of an effect of a sightedness impairment control solution
WO 2023110662 A1	UNIV DE LORRAINE	System for learning braille and method for implementing such a system
WO 2023106802 A1	THE CATHOLIC UNIV OF KOREA INDUSTRY ACADEMIC COOPERATION FOUNDATION	Method for providing chatbot for rehabilitation education for hearing loss patient, and system therefor
WO 2023046252 A1	UNIV AALBORG	Non-invasive tongue based interface
WO 2023059712 A1	TEAM IP HOLDINGS LLC	System and method for performing consumer hearing aid fittings
WO 2023068917 A1	ROZENBERGS MIERVALDIS	Ergonomic keyboard
WO 2023095141 A1	AMEDI AMIR	Tactile representation of location characteristics and content in 3d
WO 2023047647 A1	SONY GROUP CORP	Information processing device, information processing method, and program
WO 2023090104 A1	KARASHIMA RIICHI	Communication support tool and method for using same
WO 2023047712 A1	KK KEIJITSU	Remote controller (infrared transmitter) having edged reflection plate
WO 2023067613 A1	RAMAN R	A non-surgical hearing system and method thereof
WO 2023079402 A1	SONY GROUP CORP	Display of signing video through an adjustable user interface (ui) element
WO 2023058985 A1	SAMSUNG ELECTRONICS CO LTD	Refrigerator and control method thereof
WO 2023054996 A1	PARK DU GO	Object-recognizing wearable device using hand or finger tracking
WO 2023077246 A1	UNIV ANTOFAGASTA	Glove-type tactile device that allows areas of light and dark to be detected on an illuminated surface, converting a light signal into a vibration signal, which is useful for blind persons
WO 2023075613 A1	KARA TECH LIMITED	Method for generating animated sentences for sign language translation
WO 2023070061 A1	UNIV WASHINGTON	Directional audio source separation using hybrid neural network
WO 2023055293 A2	NAT UNIV SINGAPORE	Mouthguard system for human machine interaction

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AYUDA A LA MOVILIDAD

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2023108086 A1	THE REGENTS OF THE UNIV OF CALIFORNIA	Systems and methods for predictive shoulder kinematics of rehabilitation exercises through immersive virtual reality
WO 2023056309 A1	REDLINE INNOVATIONS INC	Lifting device and associated methods
WO 2023099538 A1	ROOWALK MOBILITY GMBH	Mobility assistance device
WO 2023061927 A1	FUSION LAB TECH SARL	Method for notifying a visually impaired user of the presence of object and/or obstacle
WO 2023088669 A1	GERMAN BIONIC SYSTEMS GMBH	Exoskeleton having an automatic actuating unit for size adjustment, and associated methods
WO 2023111978 A1	MAKESENSE TECH LIMITED	Sensory substitution devices
WO 2023105835 A1	PARAMOUNT BED CO LTD	Information processing device and information processing method
WO 2023107176 A1	UNIV OF PITTSBURGH OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION	Systems and methods for brain-computer interface and calibrating the same
WO 2023102650 A1	UNIV OF MANITOBA	Exoskeletal upper limb rehabilitation device
WO 2023110741 A1	OTTO BOCK HEALTHCARE PRODUCTS GMBH	Orthopaedic device and method for producing same
WO 2023049976 A1	N DE ARAUJO SELLIN DESENVOLVIMENTO DE SIST LTDA	Robotic guide dog for assisting the movement of persons with visual deficiencies or reduced mobility, and itinerary mapping and sharing method
WO 2023072678 A1	ETH ZUERICH	Device and method for arrangement on a body comprising an essentially rotation-symmetric portion, and method for moving and/or manipulation of an object using the device
WO 2023057727 A1	WANDERCRAFT	Method for moving an exoskeleton
WO 2023075587 A1	IZAGUIRRE PEREZ PAOLA ARALID	Exoskeleton system for orthoses and prostheses of hand phalanges
WO 2023038550 A1	OBSHCHESTVO S OGRANICHENNOI OTVETSTVENNOSTI U «EXAURUS»	Wearable device for supporting a user's arms
WO 2023085949 A1	EXOTEK AS	A four-wheel driven, all-terrain vehicle
WO 2023059428 A1	BATTELLE MEMORIAL INSTITUTE	Systems and methods for reducing spasticity after neurological injury
WO 2023076573 A1	LIFEDRIVE LLC	Drive manager for power wheelchair and related methods
WO 2023061907 A1	CONSEJO SUPERIOR INVESTIGACION	An anatomical model for measuring the interaction of an exoskeleton with a biological limb assisted by said exoskeleton
WO 2023062469 A1	NEUROLUTIONS INC	Orthosis system with interchangeable effector assembly
WO 2023068440 A1	KOREA ADVANCED INST SCI & TECH	Robot hand system and method for controlling robot hand
WO 2023069698 A1	UNIV PITTSBURGH COMMONWEALTH SYS HIGHER EDUCATION	Active pressure relieving system
WO 2023079184 A1	UNIV BRUSSEL VRIJE	Exoskeleton
WO 2023078202 A1	SHENTAI MEDICAL TECH SHANGHAI CO LTD	Wearable lower limb exoskeleton robot and hip joint adjustment apparatus thereof

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TELEASISTENCIA SANITARIA

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2023062420 A1	CORE SAFE MEDICAL SL	Method and apparatus for smart respiratory monitoring by electrocardiogram, breath acoustics and thoracic acceleration
WO 2023101629 A1	TORLAK MUSTAFA SAVAS	A smart electrotherapy system
WO 2023105453 A1	CYBERLIVER LTD	System and computer method including a digital biomarker (dbm), clart, for remotely assessing hepatic encephalopathy for cirrohtic patients
WO 2023105923 A1	SHARP KK	Communication terminal, base station, terminal program, base station program, communication system, and communication method
WO 2023104489 A1	MEDTRONIC IRELAND MFG UNLIMITED COMPANY	Identifying suitable candidates for denervation therapy
WO 2023094288 A1	SAULE S A	A single-cell photovoltaic module for iot applications
WO 2023099389 A1	ORANGE	Connected neural stimulator interface, connected-object manager, connected electronic device, method for starting up a connected neural stimulator interface, and method for controlling an electronic device
WO 2023102419 A1	MARANI HEALTH INC	Apparatus for non-invasive acquisition of maternal and/or fetal physiological signals
WO 2023044115 A1	TURNINGMODE LLC	Physiological well-being and positioning monitoring
WO 2023076593 A1	GOVERNMENT OF THE US SECRETARY OF COMMERCE	Lung fluid monitor and monitoring fluid level in a lung
WO 2023044268 A1	SOUNDVIEW TECH SOLUTIONS	Medical device alarm method and system
WO 2023076105 A1	TWENTY TWENTY THERAPEUTICS LLC	Fluid osmolarity sensing and associated systems, devices, and methods
WO 2023072725 A1	BIOTRONIK SE & CO KG	Implantable medical device for sensing physiological signals
WO 2023072726 A1	BIOTRONIK SE & CO KG	Implantable medical device for sensing physiological signals
WO 2023053257 A1	NEC CORP	Information processing system, information processing device, information processing method, and non-transitory computer-readable medium having program stored therein
WO 2023069466 A2	VIOPTIX INC	Handheld oximeter with display of real-time, average measurements and status indicator
WO 2023073240 A1	IBISVISION LTD	Method and system for determining eye test screen distance
WO 2023053474 A1	NEC CORP	Care giver arrangement system, care platform system, care giver arrangement method, and computer-readable storage medium
WO 2023054912 A1	SAMSUNG ELECTRONICS CO LTD	Electronic device, and biometric information notification method for electronic device
WO 2023064183 A1	STRYKER CORP	Patient support apparatus with patient weight monitoring
WO 2023052928 A1	VOHRA SANDEEP	A machine learning and artificial intelligence based tool for screening emotional & mental health for an individual or a group or masses
WO 2023064911 A1	PREC NEUROSCIENCE CORPORATION	Apparatus, systems, and methods for high-bandwidth neural interfaces
WO 2023064184 A1	STRYKER CORP	Patient support apparatus with graphical guidance
WO 2023042402 A1	FUJI CORP	Behavior monitoring system and behavior monitoring method
WO 2023096383 A1	BAE SANG WOON	Method for detecting lung disease using smartphone, and smartphone
WO 2023076950 A1	INVISALERT SOLUTIONS INC	Method and apparatus for preventing elopement
WO 2023063070 A1	TOKYO INST TECH	Neural electrode for recording and/or stimulation purposes which is intended to be adhered to brain surface upon use, and recording or stimulation method using same
WO 2023054295 A1	TERUMO CORP	Information processing device, information processing method, and program
WO 2023093313 A1	GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP LTD	Device positioning method and apparatus, electronic device, storage medium, and program product

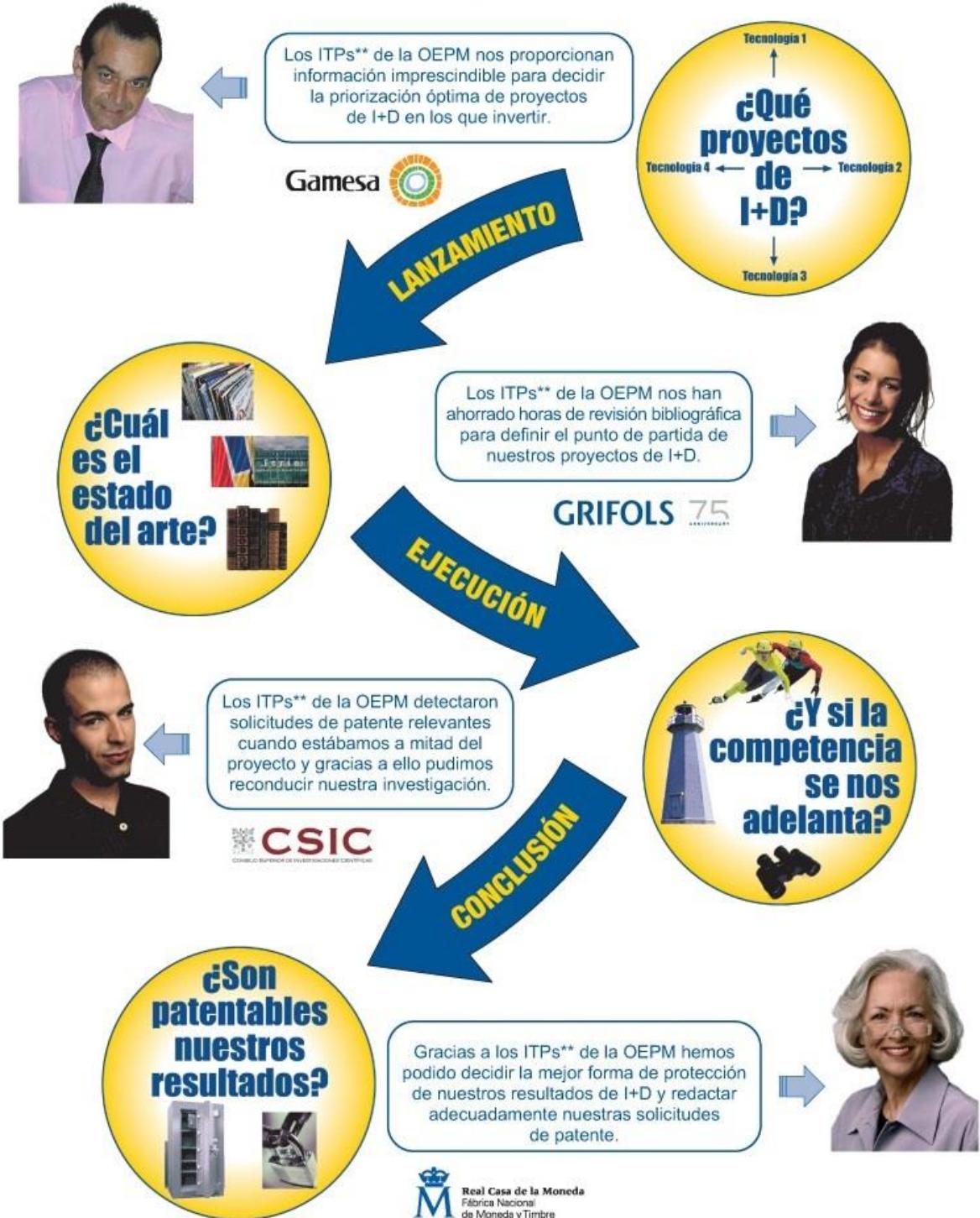
<u>WO 2023060119 A1</u>	HEARTBEAM INC	Method and apparatus for reconstructing electrocardiogram (ecg) data
<u>WO 2023042708 A1</u>	KYOCERA CORP	Recommended exercise presenting device, server device, exercise therapy assisting system, recommended exercise presenting method, and control program
<u>WO 2023096172 A1</u>	SAMKWANG THERAPY CO LTD	Led lighting device for internet of things, system for monitoring solitary person by using same, and method for monitoring solitary person by using same
<u>WO 2023077014 A1</u>	LONGEVITI NEURO SOLUTIONS LLC	Cranial implant with wire management structure
<u>WO 2023074276 A1</u>	NEC PLATFORMS LTD	Information processing system, information processing device, information processing method, and non-transitory computer-readable medium

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OTRAS REFERENCIAS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2023101624 A1	REGONESI GIULIANO	Uv hand sterilization device with photocatalysis
WO 2023064087 A1	META PLATFORMS TECH LLC	Detecting physical aspects of an eye using inward-facing sensors in an artificial reality headset
WO 2023111522 A1	MANCHESTER UNIV NHS FOUNDATION TRUST	Respirator device
WO 2023051863 A1	SKIBA MARCEL	Recreational and sports item for water sports
WO 2023104549 A1	ARJO IP HOLDING AB	Patient hoist
WO 2023094630 A1	MAEUSLI ALEXANDRE	Method, apparatus and/or system for determining information on a package containing medicaments and/or for delivering the package
WO 2023067288 A1	ELIMAJE	System for detecting a target substance in a sample
WO 2023073583 A1	COGNITIVE SYSTEMS CORP	Methods and systems for time spread assembled csi for wideband channels
WO 2023050114 A1	SHENZHEN MINDRAY BIOMEDICAL ELECTRONICS CO LTD	Blood pressure calibration method, blood pressure measuring apparatus and method, and storage medium
WO 2023059453 A1	EDISON WELDING INST INC	Tele-manufacturing system
WO 2023102382 A1	EMED LABS LLC	Lateral flow test kits
WO 2023067208 A1	GALVEZ CASAS RAFAEL	Support for artistic representations for people who are blind, and production method thereof
WO 2023059348 A1	AXIOM INNOVA INC	Vision screening device, vision impairment screening system, improved vision screening process, method of assessment, and method of use
WO 2023074178 A1	UNICHARM CORP	Information processing device, information processing method, and information processing program
WO 2023047078 A2	NICOVENTURES TRADING LTD	Aerosol provision system
WO 2023046719 A2	NESTLE SA	Methods and devices for improving sleep quality and/or subsequent behavioural outcomes
WO 2023047131 A2	I GLO LTD	Improved safety features for tactile profiles

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