

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: 220-24-016-2

## 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
<a href="#">WO2024203053A1</a>	SONY GROUP CORP	Information processing device, information processing method, program, and information processing system
<a href="#">WO2024214382A1</a>	DWANGO CO LTD	Display medium, processing device, processing method, and program
<a href="#">WO2024218687A1</a>	COCHLEAR LTD	Predictive techniques for sensory aids
<a href="#">WO2024221183A1</a>	SHENZHEN SHOKZ CO LTD	Hearing aid device
<a href="#">WO2024228093A1</a>	COCHLEAR LTD	Magnetic induction antenna module
<a href="#">WO2024205059A1</a>	ROWAN INC	Method and apparatus for improving dietary habit of user by using virtual object generated on basis of food
<a href="#">WO2024253275A1</a>	CATHOLIC UNIV KOREA IND ACADEMIC COOPERATION FOUNDATION	Braille recognition band, and operation method and system therefor
<a href="#">WO2024258783A1</a>	BISSON DANA	Treatment of delirium, altered arousal states, inattention and consequences using attention awareness through movement technique
<a href="#">WO2024246610A1</a>	SONY GROUP CORP	Earbud mounted camera
<a href="#">WO2024256151A1</a>	KONINKLIJKE PHILIPS NV	A hand-held personal care device
<a href="#">WO2024242740A1</a>	MASTERCARD INTERNATIONAL INC	Visual assist chatbot for improved accessibility of content by a visually impaired user
<a href="#">WO2024262748A2</a>	SAMSUNG ELECTRONICS CO LTD	Display device and method for controlling same
<a href="#">WO2024217785A1</a>	GLATT GES MIT BESCHRAENKTER HAFTUNG	Transportable cleaning device for cleaning marking elements, and cleaning method
<a href="#">WO2024238643A1</a>	DOLBY LABORATORIES LICENSING CORP	Audio processing using hearing loss data
<a href="#">WO2024261622A1</a>	COCHLEAR LTD	Hearing preservation vestibular stimulation
<a href="#">WO2024261590A1</a>	COCHLEAR LTD	Vestibuleostomy-based vestibular stimulation
<a href="#">WO2024231106A1</a>	ZEISS CARL AG	Method for producing optical elements for a customised spectacle lens for an image-generating display device which can be positioned on a user's head
<a href="#">WO2024219900A1</a>	HAECHITECH CORP	Magnetic sensor
<a href="#">WO2024208946A2</a>	FRAUNHOFER GES FORSCHUNG	Rendering techniques
<a href="#">WO2024239820A1</a>	INGENICO FUJIAN TECH CO LTD	Touch screen information input method for smart device and smart device itself
<a href="#">WO2024250077A1</a>	HORDYK TREVOR JOHN	Captioning system and method
<a href="#">WO2024220147A1</a>	DROPBOX INC	Generating, applying, and verifying audio signatures for digital documents
<a href="#">WO2024211080A1</a>	SONY INTERACTIVE ENTERTAINMENT INC	Translation of sign language in a virtual environment
<a href="#">WO2024227611A1</a>	SIGNIFY HOLDING BV	Luminaire
<a href="#">WO2024245649A1</a>	IBM	Artificial intelligence virtual sign language avatar interpreter
<a href="#">WO2024215804A1</a>	BE MORE COLORFUL LLC	Method for displaying content accessible to screen readers
<a href="#">WO2024232805A1</a>	MELISONO AB	Novel hearing test system
<a href="#">WO2024260063A1</a>	LIU YUANHAO	Acoustic earring
<a href="#">WO2024204982A1</a>	TORAY ADVANCED MAT KOREA INC	Color conversion sheet and backlight unit comprising same
<a href="#">WO2024211756A2</a>	APOLLO NEUROSCIENCE INC	System and method of haptically representing a visual shape

<a href="#">WO2024248868A1</a>	LOTUS LABORATORIES INC	Ring-shaped wearable devices, systems, and methods of use thereof
<a href="#">WO2024259741A1</a>	UNIV WESTLAKE	Flexible execution system for dynamically and programmatically adjusting topological surface morphology deformation, and application thereof
<a href="#">WO2024261626A1</a>	TECH INNOVATION INSTITUTE – SOLE PROPRIETORSHIP LLC	Visual speech recognition based communication training system
<a href="#">WO2024207114A1</a>	UNIV LAVAL	Methods and systems for imparting tactile sensations having acoustic traits to tactile regions of a user's hand or hands
<a href="#">WO2024203204A1</a>	CANON KK	Information conversion system, information processing device, information processing method, information conversion method, and program
<a href="#">WO2024252177A1</a>	S M E S	Enhanced device for improving the vision of a human
<a href="#">WO2024224276A1</a>	WEHEAR INNOVATIONS PRIVATE LTD	A non-surgical bone conduction hearing aid spectacles with detachable temples
<a href="#">WO2024205608A1</a>	TWENTY TWENTY THERAPEUTICS LLC	Intraocular system for transmitting data and power optically to an implant
<a href="#">WO2024254153A2</a>	SYNCHRON AUSTRALIA PTY LTD	Generative content for communication assistance

[...ver más](#)

## AYUDA A LA MOVILIDAD

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
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<a href="#">WO2024226444A9</a>	CHEN ZUOLIANG	Robotic care bed
<a href="#">WO2024236224A1</a>	OY PROTECTIVE JLL MEDIWEAR LTD	An evacuation stretcher
<a href="#">WO2024201818A1</a>	HONDA MOTOR CO LTD	Control device, control method, and program
<a href="#">WO2024258288A1</a>	TOPRO IND AS	System for height adjustment of a support for a walking aid
<a href="#">WO2024256729A1</a>	MAKESENSE TECH LIMITED	Navigation guidance devices
<a href="#">WO2024206833A1</a>	MASSACHUSETTS INST TECHNOLOGY	Flexible robotic limbs
<a href="#">WO2024210127A1</a>	OMRON TATEISI ELECTRONICS CO	Data collection method, data-collecting movement device, trained model, method for producing trained model, autonomous movement device, and method for producing learning data
<a href="#">WO2024206829A1</a>	MASSACHUSETTS INST TECHNOLOGY	Articulate inverting and everting robotic limbs
<a href="#">WO2024263298A2</a>	MASSACHUSETTS INST TECHNOLOGY	Winches for use with inverting and everting robotic limbs
<a href="#">WO2024200231A1</a>	HANDICARE STAIRLIFTS B V	Stairlift comprising a movable footrest
<a href="#">WO2024237570A1</a>	SAMSUNG ELECTRONICS CO LTD	Actuator and motion assistive device comprising same
<a href="#">WO2024227206A1</a>	WELTE NORBERT	Vehicle with caterpillar drives
<a href="#">WO2024226406A1</a>	UNIV PITTSBURGH COMMONWEALTH SYS HIGHER EDUCATION	Treatment of spinal muscular atrophy
<a href="#">WO2024227425A1</a>	JIE XUEQIANG	Small foldable bicycle and luggage-carrying apparatus thereof, and multifunctional small foldable bicycle comprising two
<a href="#">WO2024213191A1</a>	SOUTHERN ENG S R O	A lighting element for sliding doors
<a href="#">WO2024217957A1</a>	GEORG AUGUST UNIV GOETTINGEN STIFTUNG OEFFENTLICHEN RECHTS UNIVSMEDIZIN	Finger exoskeleton, finger orthosis and method for producing a finger orthosis
<a href="#">WO2024233024A1</a>	ROSER MARK COSTIN	Supportive footwear exoskeleton
<a href="#">WO2024239809A1</a>	DL CRIMSON DYNAMICS TECH CO LTD	Flexible waist and abdomen-assistive exoskeleton with differential structure and elastic framework
<a href="#">WO2024236225A1</a>	VALIO LTD	A milk product comprising milk fat globule membranes and a method for manufacturing thereof
<a href="#">WO2024197392A1</a>	UNIV HEALTH NETWORK	Polymer composite dry electrodes for electrical stimulation and methods of use thereof
<a href="#">WO2024208564A1</a>	FRAUNHOFER GES FORSCHUNG	Body-complementing/supplementing device
<a href="#">WO2024211771A1</a>	NIKE INNOVATE CV	Footwear sole structure
<a href="#">WO2024239603A1</a>	SHENZHEN INST OF ADV TECH CAS	Multi-joint flexible lower-limb exoskeleton for children with cerebral palsy
<a href="#">WO2024239606A1</a>	SHENZHEN INST OF ADV TECH CAS	Multi-joint flexible lower limb exoskeleton for children with cerebral palsy
<a href="#">WO2024198509A1</a>	SHENZHEN INST ADV TECH	Exoskeleton data glove comprising connecting rods
<a href="#">WO2024226444A9</a>	CHEN ZUOLIANG	Robotic care bed
<a href="#">WO2024226161A1</a>	MAYO FOUND MEDICAL EDUCATION & RES	Powered exoskeleton
<a href="#">WO2024208900A1</a>	BOCK OTTO HEALTHCARE PROD GMBH	Method for controlling an orthopaedic joint arrangement

<a href="#">WO2024211725A1</a>	HARMONIC BIONICS INC	Systems and methods for controlling robotic manipulators
<a href="#">WO2024234015A1</a>	UNIV MICHIGAN REGENTS	Compact torsional spring system
<a href="#">WO2024253584A1</a>	NAT UNIV SINGAPORE	Jamming brake device
<a href="#">WO2024208472A1</a>	MEBSTER S R O	Joint mechanism
<a href="#">WO2024223898A1</a>	ECOLE POLYTECHNIQUE FED LAUSANNE EPFL	Neuromodulation/neurostimulation system for restoring a motor function and facilitating neurological recovery
<a href="#">WO2024250496A1</a>	ULSROBOTICS CO LTD	Integrated power system based on gear-belt structure, and exoskeleton robot

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## TELEASISTENCIA SANITARIA

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
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<a href="#">WO2024219428A1</a>	LIVING ROBOT INC	Information processing device, information processing method, and program
<a href="#">WO2024221170A1</a>	HUAWEI TECH CO LTD	Physical change detection based on active acoustic wave sensing related application data
<a href="#">WO2024208593A1</a>	ORANGE	Method for generating a temporal sequence of evaluations of a situation and associated device
<a href="#">WO2024211890A1</a>	RENOVAHEALTH CORP	System and method for a digital health platform providing remote residence hazard analysis
<a href="#">WO2024261795A1</a>	NEC CORP	Server device, server device control method, and storage medium
<a href="#">WO2024211379A1</a>	SIBEL HEALTH INC	Body-worn sensor with haptic interface
<a href="#">WO2024224195A1</a>	MEDTRONIC INC	Attachable sensing device
<a href="#">WO2024203141A1</a>	TERUMO CORP	Program, information processing method, and information processing device
<a href="#">WO2024260944A1</a>	KONINKLIJKE PHILIPS NV	Device, system and method for detecting a deterioration of a subject's health status
<a href="#">WO2024237877A1</a>	BIRKIL BILISIM TEKNOLOJILERI ANONIM SIRKETI	Urine measurement catheter assembly
<a href="#">WO2024206698A2</a>	BREATH DIAGNOSTICS INC	Breath analysis system
<a href="#">WO2024226965A1</a>	REKOVAR INC	An integrated artificial intelligence based system for monitoring and remediating withdrawal symptoms
<a href="#">WO2024259001A1</a>	BARD ACCESS SYSTEMS INC	System and method for early identification of difficult venous access of a patient
<a href="#">WO2024263912A1</a>	VAPOTHERM INC	Respiratory care system
<a href="#">WO2024241098A1</a>	DISPILL S R L	Device for automatically dispensing medications at patient bedside in hospital contexts
<a href="#">WO2024214836A1</a>	JCFTECHNOLOGY INC	Personal information protection-type user health management system and method using health information
<a href="#">WO2024252099A1</a>	CARDIAMETRICS	Subcutaneous implant and method for mounting such a subcutaneous implant
<a href="#">WO2024220892A2</a>	KPR US LLC	Electrode connector with motion artifact dampener
<a href="#">WO2024223505A1</a>	HOFFMANN LA ROCHE	Medical device and method for monitoring integrity of a housing of a medical device
<a href="#">WO2024238888A1</a>	ABBOTT DIABETES CARE INC	Systems, devices, and methods for analyte monitoring
<a href="#">WO2024226866A2</a>	CHOU MEI YIN	A portable and compact positron emission tomography (pet) system with real-time adaptability
<a href="#">WO2024226700A1</a>	ACTIPULSE NEUROSCIENCE INC	Brain tumor treatment or prevention of recurrence with low intensity and variable frequency magnetic stimulation
<a href="#">WO2024256285A1</a>	KONINKLIJKE PHILIPS NV	System and method for detecting tremors
<a href="#">WO2024197363A1</a>	UNIV WESTERN AUSTRALIA	A plasma collection device

[..ver más](#)

## OTRAS REFERENCIAS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
<a href="#">WO2024242344A1</a>	SAMSUNG ELECTRONICS CO LTD	Electronic device and control method therefor
<a href="#">WO2024262169A1</a>	SONY GROUP CORP	Information processing device, control method, and program
<a href="#">WO2024232770A1</a>	SKRZETUSKI RAFAL	Traffic signal unit
<a href="#">WO2024251503A1</a>	VALEO COMFORT & DRIVING ASSISTANCE	Method for detecting a living being
<a href="#">WO2024210214A1</a>	NOVUSCARE INC	Device and system for frailty/mci/dementia prevention plan creation assistance and recommended life proposal
<a href="#">WO2024224196A1</a>	DYSON TECHNOLOGY LTD	Robot
<a href="#">WO2024224948A1</a>	PANASONIC IP MAN CO LTD	Lighting system, lighting fixture, and notification method
<a href="#">WO2024261356A1</a>	MARTINEZ FUENTES JOSE ANTONIO	Compact touristic multi-lane structure
<a href="#">WO2024238687A2</a>	APPLE INC	Devices, methods, and graphical user interfaces for interacting with three-dimensional environments
<a href="#">WO2024236085A1</a>	WIDEX AS	Method of repairing a hearing aid and a hearing aid repair system
<a href="#">WO2024258272A1</a>	MIMOUN MOUH	Reusable biodegradable portable toilet for all using a urinal
<a href="#">WO2024261265A1</a>	ECOLE NAT SUPERIEURE DES MINES DE PARIS	Fatigue resistant swollen fiber assemblies
<a href="#">WO2024222975A1</a>	INFINITE HORIZONS CO LTD	Dot display unit, dot display module and braille dot display device



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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.



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