



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="#">WO 2024189306 A1</a>	SONY GROUP CORP	A method, apparatus and computer program for providing accessibility options
<a href="#">WO 2024189191 A1</a>	FRAUNHOFER GES ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E V	Device for stimulating an auditory nerve
<a href="#">WO 2024182242 A1</a>	NIKE INNOVATE CV	Accessible zipper pull
<a href="#">WO 2024184463 A2</a>	ILLE PAPIER SERVICE GMBH	Drying machine and method for operating same
<a href="#">WO 2024160489 A1</a>	WIDEX AS	Hearing instrument comprising an electric charging circuit
<a href="#">WO 2024132792 A1</a>	INVENTIO AG	A control unit for an elevator car
<a href="#">WO 2024182387 A2</a>	UNIV CALIFORNIA	Tactile-enhanced display
<a href="#">WO 2024143899 A1</a>	SAMSUNG ELECTRONICS CO LTD	Display device and image display method therefor
<a href="#">WO 2024192349 A2</a>	SENSOY LLC	Augmentative and alternative communication device
<a href="#">WO 2024151851 A1</a>	SNAP INC	Eyewear processing sign language to issue commands
<a href="#">WO 2024174030 A1</a>	TECH HUMANWARE INC	Device and method for displaying braille and tactile graphics
<a href="#">WO 2024180547 A1</a>	UKAPPI LTD	Tongue-operated input device
<a href="#">WO 2024161299 A1</a>	IVISION TECH S P A	Wearable device for visual assistance, particularly for blind and/or visually impaired people
<a href="#">WO 2024133603 A1</a>	BANKS AND ACQUIRERS INT HOLDING	Method for securing the input of digits of a personal identification code, and corresponding device
<a href="#">WO 2024180733 A1</a>	NIPPON TELEGRAPH & TELEPHONE	Danger zone notification device
<a href="#">WO 2024169945 A1</a>	BEIJING ZITIAO NETWORK TECHNOLOGY CO LTD	Video editing method and apparatus, device, and medium
<a href="#">WO 2024192360 A2</a>	OHIO STATE INNOVATION FOUND	Systems and methods for automatically detecting the presence of neural responses and incomplete masking in recordings of the electrically evoked compound action potential (ecap)
<a href="#">WO 2024147028 A1</a>	SIBS CARTOES – PRODUCAO E PROCESSAMENTO DE CARTOES S A	A card, such as a bank card, and a method for producing a card for use by the visually impaired
<a href="#">WO 2024160689 A1</a>	SONY GROUP CORP	An information processing device, method and computer program
<a href="#">WO 2024155442 A1</a>	MICROSOFT TECHNOLOGY LICENSING LLC	Method to describe a screen capture using ai for the visually impaired
<a href="#">WO 2024146995 A1</a>	SYSTEMES ET TECH IDENTIFICATION STID	System for the tactile input of a code intended for visually impaired persons
<a href="#">WO 2024136159 A1</a>	DOT INC	Interactive information processing device and method
<a href="#">WO 2024146996 A1</a>	SYSTEMES ET TECH IDENTIFICATION STID	Secure access control reader comprising a system for entering a code with activation of a mode suitable for visually impaired persons
<a href="#">WO 2024136160 A1</a>	DOT INC	Information output device and method
<a href="#">WO 2024146994 A1</a>	SYSTEMES ET TECH IDENTIFICATION STID	System for entering a code into a tactile keyboard suitable for visually impaired persons
<a href="#">WO 2024151459 A1</a>	MICROSOFT TECHNOLOGY LICENSING LLC	Design difference captioning on productivity applications

<a href="#">WO 2024167222 A1</a>	SAMSUNG ELECTRONICS CO LTD	Deep learning based voice extraction and primary-ambience decomposition for stereo to surround upmixing with dialog-enhanced center channel
<a href="#">WO 2024172290 A1</a>	LIM JAE JUNG	Tongue mouse device and smart device control method
<a href="#">WO 2024173915 A1</a>	UNIV CARNEGIE MELLON	System and method for navigating and interacting via conversation
<a href="#">WO 2024156035 A1</a>	BIONIC VISION TECH	Method of operating visual sensory device
<a href="#">WO 2024128751 A2</a>	UNIV KOOKMIN IND ACAD COOP FOUND	Sign language glove using knitted textile strain sensors
<a href="#">WO 2024143698 A1</a>	SENSEE INC	Teaching aid for teaching integrated visual and tactile perception
<a href="#">WO 2024178330 A2</a>	BALL CORP	Tactile features to enable the visually impaired to read information on a beverage container
<a href="#">WO 2024161396 A1</a>	CARMEL HAIFA UNIV ECONOMIC CORPORATION LTD	Method and system for personalized image enhancement

[...ver más](#)

## AYUDA A LA MOVILIDAD

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
----------------	-------------	-------------------

<a href="#">WO 2024184299 A1</a>	AUXIVO AG	Shoulder exoskeleton
<a href="#">WO 2024170842 A1</a>	COMMISSARIAT ENERGIE ATOMIQUE	Flexible cooperating exoskeleton structure
<a href="#">WO 2024184303 A1</a>	AUXIVO AG	Exoskeleton
<a href="#">WO 2024189229 A1</a>	DEUTSCHES ZENTRUM FUER LUFT UND RAUMFAHRT E V	Apparatus and method for ascertaining and/or determining pulling-means forces of a robot system, and method for controlling a robot system
<a href="#">WO 2024184719 A1</a>	ORMESA S R L	Adjustable high chair
<a href="#">WO 2024186999 A2</a>	UNIV VANDERBILT	Body conforming interfaces for wearable assistance device
<a href="#">WO 2024151680 A1</a>	SARCOS CORP	Walk-about exoskeleton
<a href="#">WO 2024151684 A1</a>	SARCOS CORP	Conveyance systems for a maneuverable walk-about platform for a robotic upper exoskeleton
<a href="#">WO 2024182520 A1</a>	UNIV MICHIGAN REGENTS	Limb-assistive device with machine learning
<a href="#">WO 2024187285 A1</a>	TECH BIOLIFT INC	Exoskeleton for lumbar support
<a href="#">WO 2024155801 A1</a>	HARVEST MOON AUTOMATION INC	Adaptive gripper for robotics and other applications
<a href="#">WO 2024153760 A1</a>	ORTHOPUS SAS	Actuator for robotic arm
<a href="#">WO 2024165664 A1</a>	OTTOBOCK SE & CO KGAA	Orthopaedic joint device
<a href="#">WO 2024179119 A1</a>	SHENZHEN INST OF ADV TECH CAS	Hand exoskeleton robot
<a href="#">WO 2024168336 A1</a>	THE US GOV AS REPRESENTED BY THE DEPARTMENT OF VETERANS AFFAIRS	Methods, systems, and apparatuses, for managing gait operation in a neuroprosthesis
<a href="#">WO 2024164003 A1</a>	WASHINGTON UNIVERSITY ST LOUIS	Transcutaneous auricular vagal nerve stimulation for enhanced learning
<a href="#">WO 2024127327 A1</a>	IUVO S R L	Physical human-robot interface for a passive lumbar exoskeleton
<a href="#">WO 2024133087 A1</a>	BOCK OTTO HEALTHCARE PROD GMBH	Hydraulic damper
<a href="#">WO 2024148343 A1</a>	SARCOS CORP	Stance adjustment for a robotic system
<a href="#">WO 2024151686 A1</a>	SARCOS CORP	Convertible ride-on and walk-about platform for a robotic upper exoskeleton
<a href="#">WO 2024133228 A1</a>	FUNDACION UNIV FRANCISCO DE VITORIA	Hand device for evaluating and recovering affected cognitive and motor functions
<a href="#">WO 2024158673 A1</a>	DEPHY INC	Systems, methods and apparatus for augmented mobility
<a href="#">WO 2024141306 A1</a>	BOCK OTTO HEALTHCARE PROD GMBH	Orthopaedic joint device, and method for producing same
<a href="#">WO 2024137693 A1</a>	MULTICARE HEALTH SYSTEM INC	Adjustable myoelectric stimulator cuff
<a href="#">WO 2024177205 A1</a>	UNIV CHUNG ANG IND ACAD COOP FOUND	Lightweight wearable suit based on biomimetics and method for designing wearable suit
<a href="#">WO 2024161429 A1</a>	ASTREK INNOVATIONS PRIVATE LTD	An exoskeleton to support hind limbs of a user
<a href="#">WO 2024167121 A1</a>	SAMSUNG ELECTRONICS CO LTD	Movement assistance device comprising clutch disc
<a href="#">WO 2024145488 A1</a>	OREAL	Smart stand for cosmetic applicator configured for users with limited mobility
<a href="#">WO 2024150887 A1</a>	ANGEL ROBOTICS CO LTD	Link units with motor-controlled adjustable length, and wearable brace equipped with same
<a href="#">WO 2024145512 A1</a>	OREAL	Universal adapter for cosmetic applicator configured for users with limited mobility

<a href="#">WO 2024144498 A1</a>	OCALIS MUEHENDISLIK ANONIM SIRKETI	Arm rest angle adjustment system
<a href="#">WO 2024130296 A1</a>	CONTROL BIONICS LTD	Wheelchair navigation system

[...ver más](#)

## TELEASISTENCIA SANITARIA

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
----------------	-------------	-------------------

<a href="#">WO 2024185794 A1</a>	PET LINQ PLUS LLC	Monitoring system, monitoring program, and sitter matching system
<a href="#">WO 2024192043 A1</a>	QUIDEL CORP	Security protection for medical devices
<a href="#">WO 2024177853 A1</a>	CARDIAC PACEMAKERS INC	Sensor data display boundary determination
<a href="#">WO 2024184896 A1</a>	ITAMAR MEDICAL LTD	Optical digit probe for noninvasive measurement of physiological parameters
<a href="#">WO 2024183525 A1</a>	UNIV HONG KONG POLYTECHNIC	Internet-based infectious disease prevention and control training system and method
<a href="#">WO 2024186430 A2</a>	GLOBALMEDIA GROUP LLC	Portable medical devices, systems, and methods of operation
<a href="#">WO 2024190778 A1</a>	TAKAYAMA MASAOKI	Information processing device and program
<a href="#">WO 2024173619 A1</a>	MEDAMERICA CONSULTING EMPLOYEES INC DBA INFLECT HEALTH	Medical palpation device, system and method for augmented physical examination
<a href="#">WO 2024186789 A1</a>	IVEACARE INC	Patient-specific seizure detection using vagal electroneurograms
<a href="#">WO 2024180172 A1</a>	ECOLE POLYTECHNIQUE FED LAUSANNE EPFL	Body impact evaluation system and wearable measurement system therefor
<a href="#">WO 2024188938 A1</a>	SIGNIFY HOLDING B V	A controller for sensing in an environment via a first and a second sensing system and a method thereof
<a href="#">WO 2024139492 A1</a>	GUANGDONG OPPO MOBILE TELECOMMUNICATIO NS CORP LTD	Accompanying and guarding method, apparatus, and system, robot, and storage medium
<a href="#">WO 2024165276 A1</a>	BRITISH TELECOMM	Monitoring network
<a href="#">WO 2024171245 A1</a>	NIPPON TELEGRAPH & TELEPHONE	Location confirmation system, location confirmation device, location confirmation method, and program
<a href="#">WO 2024178376 A1</a>	WALLACE ARTHUR	Audio visual detection platform for patient monitoring
<a href="#">WO 2024182728 A1</a>	MURATA VIOS INC	Method for reduced false positive alarms when detecting patient movement
<a href="#">WO 2024185516 A1</a>	I W G INC	Medical assistance system
<a href="#">WO 2024136223 A1</a>	EMOCOG INC	Apparatus and method for diagnosing alzheimer's disease
<a href="#">WO 2024153587 A1</a>	BIOLAB INNOVATION GMBH	Arrangement for determining a pulse wave transit time of an object, computer-implemented method and computer program product
<a href="#">WO 2024163373 A1</a>	EDWARDS LIFESCIENCES CORP	Ferromagnetic skirt for a medical device
<a href="#">WO 2024177968 A1</a>	UNIV NORTHWESTERN	Thermal safety systems having responsive materials and mechanisms for skin-interfaced electronic devices and applications thereof
<a href="#">WO 2024146942 A1</a>	PIERENKEMPER GMBH	System, in particular smartphone app, tear-off pad, and data report
<a href="#">WO 2024133020 A1</a>	KONINKLIJKE PHILIPS NV	Methods and systems for creating and scaling informal care networks
<a href="#">WO 2024163656 A1</a>	SIBEL HEALTH INC	Wireless telemetry sensor system
<a href="#">WO 2024141368 A1</a>	BAXTER INT	Methods, apparatus, and system for pairing a patient's mobile device with a medical device
<a href="#">WO 2024146800 A1</a>	SIGNIFY HOLDING BV	A method for determining a label of a fall event
<a href="#">WO 2024132070 A1</a>	ANYWARE SOLUTIONS APS	Alerting device for warning of anomalies in behavioral patterns
<a href="#">WO 2024147259 A1</a>	HITACHI LTD	Life support system, life support device, and life support method
<a href="#">WO 2024167965 A1</a>	ELECTROMED INC	Airway clearance system
<a href="#">WO 2024136900 A1</a>	MEDICI TECH LLC	Cardiac function assessment system
<a href="#">WO 2024130200 A1</a>	LIFESIGNALS INC	Systems and methods for optimizing health care resources and patient monitoring
<a href="#">WO 2024137888 A1</a>	RLIN LLC	Remote monitoring, engagement, scoring, and real-time feedback for therapy, exercise, and activities
<a href="#">WO 2024145602 A1</a>	WASHINGTON UNIVERSITY ST LOUIS	Wireless multi-lead electrocardiogram (ecg) system and associated method of us

[WO 2024185794 A1](#)

PET LINQ PLUS LLC

Monitoring system, monitoring program, and sitter matching system

[..ver más](#)

## OTRAS REFERENCIAS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
<a href="#">WO 2024179688 A1</a>	NEOS NEW BORN SOLUTIONS S L	Ultrasound probe and system for analyzing superficial body fluids
<a href="#">WO 2024189448 A1</a>	AMO DEV LLC	Corneal lenticular incision using a femtosecond laser with improved scaline sweep speed profile
<a href="#">WO 2024191953 A1</a>	REDFORD RYAN	High frequency device for 3d mapping of trachea and lungs
<a href="#">WO 2024192234 A1</a>	VAN BLARCOM CLOSURES INC	Metal safety closure with engaging notch
<a href="#">WO 2024181978 A1</a>	SMART HYGIENE INC	Electronic automatically adjusting bidet commode with artificial intelligence and spectroscopy software
<a href="#">WO 2024156723 A1</a>	PHILIP MORRIS PRODUCTS SA	Container
<a href="#">WO 2024184432 A1</a>	WIDEX AS	A hearing aid system and a method of optimizing hearing aid parameters
<a href="#">WO 2024164029 A2</a>	UNIVERSAL TECH CORP	Decubitus prevention device
<a href="#">WO 2024167407 A1</a>	REMEDIZ B V	Pharmaceutical dispensing device
<a href="#">WO 2024161770 A1</a>	SHIMADZU CORP	Urinary volume measurement device
<a href="#">WO 2024145477 A1</a>	MED EL ELEKTROMEDIZINISC HE GERAETE GMBH	Synthesis of ling sounds
<a href="#">WO 2024153379 A1</a>	KNORR BREMSE GMBH	Locally controlled door device of a rail vehicle
<a href="#">WO 2024162859 A1</a>	GUDEJ PAWEL	The dispenser for pad ejection on the toilet seat ring
<a href="#">WO 2024127737 A1</a>	JUJO PAPER CO LTD	Gable-top paper container
<a href="#">WO 2024167522 A1</a>	MEDICI TECH LLC	Noninvasive structural and valvular abnormality detection system based on flow aberrations



# iiPor sólo 500€ añade 150 especialistas\* a su Equipo de I+D!!



Los ITPs\*\* de la OEPM nos proporcionan información imprescindible para decidir la priorización óptima de proyectos de I+D en los que invertir.



Los ITPs\*\* de la OEPM nos han ahorrado horas de revisión bibliográfica para definir el punto de partida de nuestros proyectos de I+D.



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.



\* La OEPM cuenta con más de 150 examinadores de patentes especializados en los diversos sectores tecnológicos y en la búsqueda de información científico-técnica.

\*\* Los Informes Tecnológicos de Patentes o ITPs son estudios a la medida que incluyen una búsqueda de patentes y de literatura científica con un análisis en profundidad de los documentos más relevantes. Su coste es de 440 euros más IVA.