

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="#">WO2025075246A1</a>	EYESHARENET INC	Qr code-marked braille block for guiding visually impaired person and visually impaired person information guide system using same
<a href="#">WO2025082800A1</a>	BOSCH GMBH ROBERT	Portable reading device for blind people
<a href="#">WO2025100864A1</a>	DOT INC	Visually impaired person-related content generating device, layered content providing method, electronic display device having screen split function, electronic display device, and control method thereof
<a href="#">WO2025109235A1</a>	SALTO SYSTEMS SL	Capacitive keypad reader for blind people
<a href="#">WO2025121451A1</a>	LG ELECTRONICS INC	Wearable device and pedestrian guidance method using same
<a href="#">WO2025072658A1</a>	ONECOURT TECH INC	Haptic device for tactile broadcasting
<a href="#">WO2025121157A1</a>	DISIGN INCORPORATED	Gesture recognition device, gesture recognition system, gesture recognition method, and program
<a href="#">WO2025125063A1</a>	COMMISSARIAT ENERGIE ATOMIQUE	Electronic device for capturing infrared radiation and displaying images
<a href="#">WO2025121988A1</a>	AIRCODE CO LTD	Method for smart sign language video disaster service, and apparatus thereof
<a href="#">WO2025133375A1</a>	COMMISSARIAT ENERGIE ATOMIQUE	Contact force-dependent haptic feedback vibrotactile interface
<a href="#">WO2025133977A1</a>	COCHLEAR LTD	Advanced comprehension training
<a href="#">WO2025133376A1</a>	COMMISSARIAT ENERGIE ATOMIQUE	Touch interface for driving an external member using ultrasonic vibrations
<a href="#">WO2025133136A1</a>	ESSILOR INT	Chromatic optimization of phase-shift designs for myopia control
<a href="#">WO2025069566A1</a>	NICHIA CORP	Vehicular light-emitting device and vehicular lamp
<a href="#">WO2025132383A1</a>	SWIPBOX DEV APS	A method for granting access to one or more compartments using a tag
<a href="#">WO2025116454A1</a>	CREAMO INC	Variable braille output device, smart block including same, variable braille display device, and smart board
<a href="#">WO2025075827A1</a>	GOOGLE LLC	Sonifying visual content for vision-impaired users
<a href="#">WO2025109635A1</a>	SINGH SUNIL KUMAR	Hearing aid system, apparatus and a method to use thereof
<a href="#">WO2025101941A1</a>	GOOGLE LLC	Llm as a transcription filter
<a href="#">WO2025085305A1</a>	BRAUN CORP	Apparatus and methods for modifying a battery electric vehicle for wheelchair access
<a href="#">WO2025116765A1</a>	PUBLICHNOE AKTSIONERNOE OBSHCHESTVO SBERBANK RUSSIA	Braille data input method and device
<a href="#">WO2025081200A1</a>	GARUDADRI HARINATH	Systems and methods for fitting hearing aids
<a href="#">WO2025116339A1</a>	UNIV KOREA RES & BUS FOUND	Prognosis diagnosis method and device for predicting prognosis of patient with sudden hearing loss, and learning method and device for training prognosis prediction model
<a href="#">WO2025081101A1</a>	SORENSEN IP HOLDINGS LLC	Data collection for sign language recognition
<a href="#">WO2025076547A1</a>	UNIV LELAND STANFORD JUNIOR	Speech decoding applications of multimodal machine learning
<a href="#">WO2025111590A1</a>	SORENSEN IP HOLDINGS LLC	Sign language translation
<a href="#">WO2025071985A1</a>	GOOGLE LLC	Using large language models to generate view-based accessibility information
<a href="#">WO2025127315A1</a>	ELTOV CO LTD	Cloud-based artificial intelligence barrier-free universal kiosk platform

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## AYUDA A LA MOVILIDAD

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
<a href="#">WO2025019696A2</a>	ROWAN THOMAS JAMES	Apparatus for walking and rehabilitation safety
<a href="#">WO2025125013A1</a>	VOSS HEALTHCARE GMBH	Mobility device with electrically drivable or driven wheels or casters, and method for operating the same
<a href="#">WO2025115046A1</a>	SALONG SRL	Floating wheelchair
<a href="#">WO2025121661A1</a>	SAMSUNG ELECTRONICS CO LTD	Wearable exercise device
<a href="#">WO2025125329A1</a>	VAN POLEN WILLEM ADAM	Hoisting and transporting apparatus for a disabled person
<a href="#">WO2025112620A1</a>	DNSYS INNOVATION BEIJING LTD	Powered knee joint exoskeleton
<a href="#">WO2025085465A1</a>	US GOV SEC ARMY	Exoskeleton device
<a href="#">WO2025126294A1</a>	WELLOOP CO LTD	Walking stick and foot part for walking stick
<a href="#">WO2025102046A1</a>	ROCKING INC	Portable rebounding device with adjustable and collapsible features
<a href="#">WO2025081735A1</a>	UNIV HONG KONG CHINESE	Soft robotic actuators and devices to assist standing and walking development in pediatric patients
<a href="#">WO2025076218A1</a>	UNIV CASE WESTERN RESERVE	Exoskeletal fluid circulation device
<a href="#">WO2025071433A1</a>	MARTSII NIKITA VLADISLAVOVICH	Human back exoskeleton
<a href="#">WO2025118282A1</a>	UNIV TSINGHUA	Trajectory tracking control method for exoskeleton robot, and exoskeleton robot system
<a href="#">WO2025068903A1</a>	TWIICE SA	Method and exoskeleton for performing self-balanced dynamic motion
<a href="#">WO2025122127A2</a>	TB TEKNOLOJI SANAYI VE TICARET ANONIM SIRKETI	Exoskeleton with gps module and a tracking system for the same
<a href="#">WO2025085046A2</a>	TB TEKNOLOJI SANAYI VE TICARET ANONIM SIRKETI	An arm movement mechanism for exoskeletons
<a href="#">WO2025117860A1</a>	LIFEWARD LTD	Exoskeleton and smart crutch systems
<a href="#">WO2025068816A1</a>	FONDAZIONE ST ITALIANO TECNOLOGIA	Apparatus for fixing a robotic exoskeleton for lower limbs to the tibial portion of a user's limb
<a href="#">WO2025085045A2</a>	TB TEKNOLOJI SANAYI VE TICARET ANONIM SIRKETI	A movement mechanism for exoskeletons
<a href="#">WO2025093775A1</a>	UNIV BRUSSEL VRIJE	An exoskeleton for musculoskeletal support and assistance
<a href="#">WO2025088413A1</a>	REEV SAS	Compact transmitting assembly, motor system comprising same, and active orthosis or active prosthesis or exoskeleton comprising same
<a href="#">WO2025080330A2</a>	SUITX INC	Adjustable hip interface
<a href="#">WO2025079750A1</a>	EXOATLETASIA CO LTD	Lower limb rehabilitation training robot system and control method therefor
<a href="#">WO2025081605A1</a>	SHENZHEN INST OF ADV TECH CAS	Exoskeleton system for assisting hip replacement postoperative medical rehabilitation
<a href="#">WO2025081605A1</a>	SHENZHEN INST OF ADV TECH CAS	Exoskeleton system for assisting hip replacement postoperative medical rehabilitation
<a href="#">WO2025077243A1</a>	UNIV SOUTHEAST	Variable-rigidity hand exoskeleton device based on antagonistic driving
<a href="#">WO2025108790A1</a>	DECATHLON SA	Dorsal structure for an exoskeleton
<a href="#">WO2025091628A1</a>	SHENZHEN INST OF ADV TECH CAS	Wearable motion-assisting exoskeleton system for ocean diving operation
<a href="#">WO2025091628A1</a>	SHENZHEN INST OF ADV TECH CAS	Wearable motion-assisting exoskeleton system for ocean diving operation
<a href="#">WO2025095636A1</a>	ANGEL ROBOTICS CO LTD	Lower body assistance device
<a href="#">WO2025128497A1</a>	ROSER MARK COSTIN	Supportive footwear systems and shock absorbers
<a href="#">WO2025090398A1</a>	UNIV OREGON HEALTH & SCIENCE	Cable transmission-reduction for human limb, robotic arm, and the like
<a href="#">WO2025065163A1</a>	SHENZHEN INST OF ADV TECH CAS	Ultralight quasi-passive hip-knee joint power-assist robot having multiple degrees of freedom
<a href="#">WO2025107029A1</a>	UNIV MELBOURNE	Systems, methods and devices for monitoring gait

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## TELEASISTENCIA SANITARIA

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
<a href="#">WO2025079457A1</a>	LIVING ROBOT INC	Monitoring system, remote command device, robot, and monitoring method
<a href="#">WO2025099126A2</a>	VERISURE SARL	Wearable personal monitoring devices and related systems
<a href="#">WO2025084523A2</a>	CHEIL ELECTRIC WIRING DEVICES CO LTD	Apparatus and method for predicting disease based on sleep analysis installed in senior house
<a href="#">WO2025075670A1</a>	MICROCHIP TECH INC	Locating an ems unit closest to a source of a distress signal and notifying proximate personal devices
<a href="#">WO2025074338A1</a>	AMBA HEALTH AND CARE LTD	Context-aware remote care alert system for patient populations
<a href="#">WO2025110615A1</a>	SAMSUNG ELECTRONICS CO LTD	System and method for continuous monitoring of an entity
<a href="#">WO2025079083A1</a>	PINK TREE HEALTH LLP	Respiratory disease related patient health management ecosystem
<a href="#">WO2025101154A1</a>	ISTANBUL MEDIPOL UNIV TEKNOLOJİ TRANSFER OFİSİ ANONİM ŞİRKETİ	A monitoring system for dementia patients
<a href="#">WO2025082515A1</a>	AI SPARK INTELLIGENCE TECH CO LTD	Health monitoring system and method
<a href="#">WO2025128966A1</a>	CURRENT HEALTH INC	Crs detection and predictive vitals
<a href="#">WO2025078550A1</a>	LOTFI REZA	System, device, and method for rehabilitation and tele-rehabilitation using ai-based motion detection and dynamic body-weight support
<a href="#">WO2025091068A1</a>	KALI HEALTHCARE PTY LTD	Sensor device, monitor and sensor assembly
<a href="#">WO2025106991A1</a>	UNIV TEXAS	Detecting and classifying fetal movements using machine learning estimation of audio recordings

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## OTRAS REFERENCIAS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
<a href="#">WO2025116319A1</a>	AMONSENSE CO LTD	Sound and floor walking signal control device and control system
<a href="#">WO2025084261A1</a>	IGSA INC	Cognitive function level calculation device, cognitive function level calculation method, cognitive function level calculation program, trained model generation device, trained model generation method, and trained model generation program
<a href="#">WO2025095894A1</a>	AFSU OZEL KALEM REKTORLUK	Medication intake control system and method
<a href="#">WO2025087836A1</a>	BAYER AG	Assistance in the assessment of acute respiratory distress syndrome
<a href="#">WO2025068636A1</a>	TILDAN TAEHTI OY	Arrangement and method for helping lost or missing persons
<a href="#">WO2025099783A1</a>	MITSUBISHI ELECTRIC CORP	Monitoring device, monitoring method, monitoring program, and monitoring system
<a href="#">WO2025102175A1</a>	THE ONTARIO EDUCATIONAL COMMUNICATIONS AUTHORITY TVO	System and method for centrally managing adaptive learning across multiple distributed e-learning experiences
<a href="#">WO2025114955A1</a>	MUROVSKI KATHRIN	Ophthalmological practice
<a href="#">WO2025105575A1</a>	SAFEWARE INC	Fall detection method and airbag apparatus
<a href="#">WO2025101666A1</a>	FREDERICKS KYLE	Methods, systems, and devices for vascular health monitoring through an implantable/insertable device
<a href="#">WO2025110586A1</a>	UNIV KWANGWOON IND ACAD COLLAB	Multiple uwb radar sensor-based neuromorphic device
<a href="#">WO2025118684A1</a>	HANGZHOU HIKVISION DIGITAL TEC	Camera for elderly care home
<a href="#">WO2025088220A1</a>	ZEISS CARL MEDITEC AG	Artificial intelligence-based model for patient-individual planning of a refractive eye surgery

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