



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="#">WO2025009718A1</a>	HUMANIT CO LTD	Artificial intelligence glasses system capable of supporting communication between hearing-impaired person and non-hearing-impaired person and recognizing close-range situation
<a href="#">WO2025022164A1</a>	EUROPEAN COMFORT S R L	Apparatus and method for assisting visually impaired persons
<a href="#">WO2025046804A1</a>	RESONAC CORP	Tag and method for providing article
<a href="#">WO2025009950A1</a>	CHOI SEO YOON	Navigation system for visually impaired
<a href="#">WO2024249248A1</a>	MORAT GAMING LLC	Systems and methods for providing haptic feedback to dhh persons
<a href="#">WO2025040678A1</a>	WIDEX AS	Method of operating a hearing aid and hearing aid
<a href="#">WO2025010516A1</a>	TORRES MILLAR RICARDO EULOGIO	Prescription goggles for use in water
<a href="#">WO2025053274A1</a>	KIMURA CORP	Toilet guidance system, toilet guidance program, and toilet guidance method
<a href="#">WO2025037303A1</a>	FISHER AMIT	Safety system for swimmers including visually impaired and elderly swimmers
<a href="#">WO2025038664A1</a>	VISA INT SERVICE ASS	Touchscreen input with haptics
<a href="#">WO2025009183A1</a>	KIKUI TOSHIKAZU	Automatic reading device
<a href="#">WO2025054774A1</a>	SHENZHEN INST OF ADV TECH CAS	Visual slam-based path planning method and apparatus, electronic device, and storage medium
<a href="#">WO2025030206A1</a>	SQUID EYE PTY LTD	Remote eye gaze cursor control technology
<a href="#">WO2025012058A1</a>	HANDICARE STAIRLIFTS B V	Stairlift with foldable chair with assist system
<a href="#">WO2025034252A1</a>	MICROCHIP TECH INC	Wearable system for spatial audio detection with alerting elements for detection of potentially dangerous events
<a href="#">WO2025029834A1</a>	SPDR INNOVATIONS LLC	Intelligent door screen system for providing safety and security
<a href="#">WO2025029115A1</a>	BELL THERAPEUTICS INC	Auditory training method and device
<a href="#">WO2025004825A1</a>	PLATZ CO LTD	Floor-standing handrail and floor-standing handrail weight
<a href="#">WO2025042363A1</a>	YORGLASS CAM SANAYI VE TICARET ANONIM SIRKETI	Embossed tempered control panel glass for the visually impaired
<a href="#">WO2025027382A1</a>	PUCCI GUERINO	System for the delivery and collection of goods
<a href="#">WO2025012435A1</a>	ASSA ABLOY ENTRANCE SYSTEMS AB	System and method for operating an automatic door system using a radar sensor
<a href="#">WO2025029811A1</a>	VERILY LIFE SCIENCES LLC	Intraocular implant
<a href="#">WO2025032251A1</a>	GEHLHAAR MATOSSIAN VAHAKN WOLFRAM	Apparatus for conducting music
<a href="#">WO2025018482A1</a>	PRESBYTERIAN MEDICAL CENTER	Voice control device for treatment of hearing-impaired patient
<a href="#">WO2025033750A1</a>	SAMSUNG ELECTRONICS CO LTD	Refrigerator and method for controlling indoor lamp of freezer compartment thereof
<a href="#">WO2025038142A1</a>	SAFE HARBOR HOSPITAL BEDS LLC	Hospital bed with foot egress
<a href="#">WO2025026656A1</a>	DOTLUMEN S R L	Feedback unit, wearable device comprising the feedback unit and methods for visual guiding the movement of a visually impaired user having moderate impairment
<a href="#">WO2025041940A1</a>	LG ELECTRONICS INC	Assistive device for home appliances
<a href="#">WO2025027631A1</a>	INDIAN INST TECH MADRAS	A sparsh bharati e-reader system and a method thereof

<a href="#">WO2025034621A2</a>	FREEDOM SCIENTIFIC INC	Split line braille system
<a href="#">WO2025001597A1</a>	ZTE CORP	Voice and sign language conversion method and apparatus
<a href="#">WO2025018480A1</a>	CATHOLIC UNIV KOREA IND ACADEMIC COOPERATION FOUNDATION	Eye drop storage device for assisting user to use eye drop and method for operating same
<a href="#">WO2025040572A1</a>	WIDEX AS	Method for operating a hearing aid and hearing aid
<a href="#">WO2025059512A1</a>	THALES AVIONICS INC	Sign language cabin notification system
<a href="#">WO2025003989A1</a>	CLOUDIA RES S P A	Method and system for the automatic translation of sign language into a different idiom
<a href="#">WO2025064799A1</a>	KATMAI TECH INC	Methods and systems for integrating two-dimensional and three-dimensional video conference platforms into a single video conference session
<a href="#">WO2025053842A1</a>	VISA INT SERVICE ASS	Apparatus, system, and method for non-visual payment authentication
<a href="#">WO2025011629A1</a>	ALIPAY HANGZHOU INF TECH CO LTD	Sign language recognition and interaction
<a href="#">WO2025007039A1</a>	SIGN SPEAK INC	Realtime ai sign language translation with avatar
<a href="#">WO2025006817A1</a>	SEMNANI RODMEHR TIVON BAYEGAN	Vision assistance apparatus and associated systems and methods

[...ver más](#)

## AYUDA A LA MOVILIDAD

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
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<a href="#">WO2025023874A2</a>	PRINCESS NOURAH BINT ABDULRAHMAN UNIV	Self-controlled wheelchair
<a href="#">WO2025020262A1</a>	SHANGHAI BANGBANG ROBOTICS CO LTD	Folding wheelchair
<a href="#">WO2024258062A1</a>	SAMSUNG ELECTRONICS CO LTD	Method of determining arm posture of user and electronic device for performing method
<a href="#">WO2025000317A1</a>	BEIJING DONGSI INNOVATION TECH CO LTD	Chain-type telescopic hip joint exoskeleton
<a href="#">WO2025016056A1</a>	GUANGDONG MEIJI BIOTECHNOLOGY CO LTD	Four-column standing bed
<a href="#">WO2025015010A2</a>	BEAVERS JAY CURTIS	Systems, methods, and techniques for controlling powered devices
<a href="#">WO2025035895A1</a>	SHENZHEN ASPIRED TECH CO LTD	Rollator
<a href="#">WO2025046461A1</a>	TEGLIA GIOVANNI	Aid device for persons with motor disabilities for entering and exiting in/from a swimming pool
<a href="#">WO2025005377A1</a>	KOREA INST MACH & MATERIALS	Posture changing apparatus having armrests, for wheelchair
<a href="#">WO2025005479A1</a>	SAMSUNG ELECTRONICS CO LTD	Message output method and electronic device for performing same method
<a href="#">WO2025017470A1</a>	MHEALTH TECH S R L	Corrective system for the walking of individuals with mobility impairment
<a href="#">WO2025051303A1</a>	QUANZHOU ABLE TRITRUST METAL PRODUCT CO LTD	Multifunctional folding chair
<a href="#">WO2025018321A1</a>	LIVING ROBOT INC	Exercise assistance system and exercise assistance method
<a href="#">WO2025042909A2</a>	HARVARD COLLEGE	System and method for controlling a wearable robotic device
<a href="#">WO2025053894A1</a>	MASSACHUSETTS INST TECHNOLOGY	Systems and methods for supporting a user
<a href="#">WO2025012122A1</a>	FUND TEKNIKER	Portable device for exercising bedridden patients
<a href="#">WO2025027198A1</a>	CC CONTACT	Total bicondylar knee prosthesis made of solid ceramic integrating a pin
<a href="#">WO2025029972A1</a>	MASSACHUSETTS INST TECHNOLOGY	Advancements in magnetomicrometry, state-estimation and neuromuscular control
<a href="#">WO2025034327A1</a>	SWEDE SUPPORT LLC	Stabilization device
<a href="#">WO2025056684A1</a>	GEORG AUGUST UNIV GOETTINGEN STIFTUNG OEFFENTLICHEN RECHTS UNIVSMEDIZIN	Finger exoskeleton
<a href="#">WO2025049489A1</a>	DEPHY INC	Powered exoskeletons comprising a hybrid braided-composite shear interface
<a href="#">WO2025019316A1</a>	UNIV TEXAS	Methods and systems for closed loop vagus nerve stimulation triggering
<a href="#">WO2025017564A1</a>	KINESICS AI LTD	Game-based system and methods for rehabilitation
<a href="#">WO2025050021A1</a>	UNIV COLORADO REGENTS	Modular origami shape-morphing soft exoskeletal legged robot
<a href="#">WO2025002972A1</a>	KONINKLIJKE PHILIPS NV	System and method for detecting and compensating tremors
<a href="#">WO2025053788A1</a>	UNIV NANYANG TECH	Upper limb assistive system and method
<a href="#">WO2025056700A1</a>	ZEAL MOBILITY DEVICES B V	Orthotic foot brace
<a href="#">WO2025064856A1</a>	US HEALTH	Gait assistance systems and methods of control thereof

<a href="#">WO2025000700A1</a>	BEIJING DONGSI INNOVATION TECH CO LTD	Hip joint exoskeleton
<a href="#">WO2025000926A1</a>	SHENZHEN INST OF ADV TECH CAS	Modular mechanical free-clutch exoskeleton joint
<a href="#">WO2025035658A1</a>	SHENZHEN INST OF ADV TECH CAS	Hand exoskeleton for rehabilitation
<a href="#">WO2025034686A1</a>	MASSACHUSETTS INST TECHNOLOGY	Switchable clutch based on self-amplified friction of interleaved layers
<a href="#">WO2025024709A1</a>	KAR HEALTH LLC	Valve leaflet exoskeleton and related systems and methods
<a href="#">WO2025032085A1</a>	BOCK OTTO HEALTHCARE PROD GMBH	Orthopaedic joint device and method for controlling same
<a href="#">WO2025032086A1</a>	BOCK OTTO HEALTHCARE PROD GMBH	Orthopaedic joint device and method for controlling same
<a href="#">WO2025038653A1</a>	LIFE ENABLED INC	Gait trainer
<a href="#">WO2025053470A1</a>	SAMSUNG ELECTRONICS CO LTD	Driven camera positioning mechanism operated by arm motion, and wearable suit having same
<a href="#">WO2025035818A1</a>	SHENZHEN INST OF ADV TECH CAS	Self-locking gripping power-assist apparatus suited to complex terrains

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## TELEASISTENCIA SANITARIA

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
<a href="#">WO2025014633A2</a>	WELLNUO LLC	Multi sensor array smart plug for health and habit tracking
<a href="#">WO2025017782A1</a>	MITSUBISHI ELECTRIC CORP	Assistance request system, position information management device, and assistance request method
<a href="#">WO2025059296A1</a>	BATTELLE MEMORIAL INSTITUTE	Triage bandages and sensors
<a href="#">WO2025047935A1</a>	SOFTBANK GROUP CORP	Behavior control system, control device, electronic apparatus, and avatar display device
<a href="#">WO2025013276A1</a>	AXIOHELIX CO LTD	State monitoring system for person to be assisted
<a href="#">WO2025056519A1</a>	SIGNIFY HOLDING BV	Method of optimally positioning a time-of-flight sensor on a ceiling
<a href="#">WO2025059747A1</a>	ARAUJO CASTELO BRANCO LUCIANO	Motor vehicle alarm device for detecting the presence of children and/or animals inside the vehicle
<a href="#">WO2025021374A1</a>	BIOTRONIK SE & CO KG	Multi-disciplinary remote patient assistance system
<a href="#">WO2025050085A1</a>	ABBOTT DIABETES CARE INC	Deployment and use of a continuous analyte monitoring system for improved patient treatment
<a href="#">WO2025027036A1</a>	KARMA TECH AG	Sensor device and monitoring method
<a href="#">WO2025051577A1</a>	BIOTRONIK SE & CO KG	Method and system for predicting an adverse patient clinical event
<a href="#">WO2025032350A1</a>	IVM ZRT	Multi-functional mobile medication dispensing device
<a href="#">WO2025024858A1</a>	FECHTER CARY ERWIN	Systems, devices, and methods for fiber optical data transmission in medical devices
<a href="#">WO2025027581A1</a>	BLINK ENERGY LTD	System and device for monitoring eye and eyelid motion
<a href="#">WO2025029971A1</a>	AGILEWORKS LLC	High-intensity focused electromagnetic therapy for hypogonadism and associated systems
<a href="#">WO2025043290A1</a>	SEER MEDICAL HOLDINGS LTD	A method to forecast multiple seizure types using seizure cycles
<a href="#">WO2025003867A1</a>	TERUMO CORP	Ultrasound measurement device
<a href="#">WO2025058913A1</a>	MELANOXI PULSE OXIMETER LLC	Pulse oximeter

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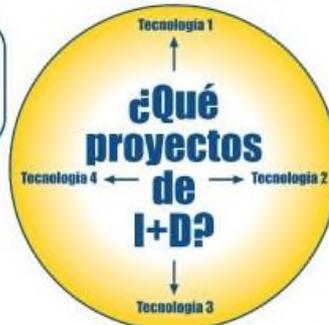
## OTRAS REFERENCIAS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
<a href="#">WO2025040826A1</a>	LARRONDO ALCAINO ROSSANA MARISOL	Doll
<a href="#">WO2025028370A1</a>	NITTO DENKO CORP	Robot, robot control method, and program
<a href="#">WO2025018476A1</a>	PRESBYTERIAN MEDICAL CENTER	Chair for treatment of hearing-impaired patient
<a href="#">WO2025027699A1</a>	NIPPON TELEGRAPH & TELEPHONE	Subjective feeling of movement recognition assistance device, method, and program
<a href="#">WO2025050907A1</a>	BEWATEC ZHEJIANG MEDICAL EQUIPMENT CO LTD	Nursing bed
<a href="#">WO2025009980A1</a>	AIDENCY AS	Method of providing a medical assistance device for use by a non-medically trained person, and device and network thereof
<a href="#">WO2025040835A1</a>	TEKNOLOGIAN TUTKIMUSKESKUS VTT OY	Weather model-based automated parametrization of gated camera apparatus
<a href="#">WO2025005049A1</a>	SEKISUI CHEMICAL CO LTD	Information processing system, information processing method, and program
<a href="#">WO2025024165A2</a>	JAZZER LLC	Platform for sexual stimulation devices
<a href="#">WO2025002907A1</a>	ZEISS CARL AG	Method for defining the focal plane of a virtual image from an optical arrangement which can be worn in front of the eyes
<a href="#">WO2025013986A1</a>	PROMAX CO LTD	Integrated home training posture coaching platform system using artificial intelligence and big data
<a href="#">WO2025035180A1</a>	MELBOURNE INST TECH	Electrophysiological sensor and method of detecting electrophysiological signals
<a href="#">WO2025049109A2</a>	LIFELENS TECH INC	Communication of data via mobile network nodes in compartmentalized monitoring environments
<a href="#">WO2025009581A1</a>	HEDGEHOG MEDTECH INC	Cognitive behavioral therapy support method, cognitive behavioral therapy support device, cognitive behavioral therapy support program, and recording medium
<a href="#">WO2025028147A1</a>	PANASONIC IP MAN CO LTD	Person detection system
<a href="#">WO2025059436A1</a>	EDWARDS LIFESCIENCES CORP	Implantable medical device
<a href="#">WO2025054610A1</a>	UNIV CALIFORNIA	Detection of dementia biomarkers using aptamer-modified graphene field-effect transistors
<a href="#">WO2025000378A1</a>	SHENZHEN INST OF ADV TECH CAS	Indoor positioning and navigation method based on fusion of wi-fi fingerprint information and inertial sensor information
<a href="#">WO2025003717A1</a>	NIBSM HUNGARY KORLATOLT FELELOSSEGU TARSASAG	Non-invasive blood glucose monitor

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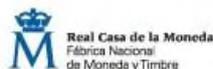
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Los ITPs\*\* de la OEPM detectaron solicitudes de patente relevantes cuando estábamos a mitad del proyecto y gracias a ello pudimos reconducir nuestra investigación.



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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