

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

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 2023286020 A1	FUND NORAS	System and method for providing feedback to a user
WO 2023033925 A1	MICROSOFT TECHNOLOGY LICENSING LLC	Control of variable-focus lenses in a mixed-reality device for presbyopes
WO 2022263757 A1	CENTRE HOSPITALIER REGIONAL UNIV DE TOURS	Communication interface adapted according to a cognitive evaluation for speech-impaired patients
WO 2023041452 A1	INT BUSINESS MACHINES CORPORATION	Smart seamless sign language conversation device
WO 2023037084 A1	COMMISSARIAT ENERGIE ATOMIQUE	Device having a reconfigurable surface, particularly a display for displaying braille characters
WO 2023004448 A1	NEUROTH INT AG	Training method for improving the hearing capacity of a listener
WO 2023002515 A1	MONTE PASCHI FIDUCIARIA S P A	Movement-controlled earphone device for the transceiving of acoustic signals
WO 2022259065 A1	HAGA2 S R L	Communication device for facilitating verbal communication for deaf or hearing impaired people
WO 2023274683 A1	INVENTIO AG	Lift system and operating method
WO 2022270456 A1	PIXIE DUST TECH INC	Display control device, display control method, and program
WO 2023280359 A1	AUDIENTES AS	Adaptation methods for hearing aid and hearing aid incorporating such adaptation methods
WO 2022270455 A1	PIXIE DUST TECH INC	Display control device, display control method, and program
WO 2022268922 A1	VERISURE SARL	A security monitoring system
WO 2022264165 A1	KARNATAKI AISHWARYA	A portable assistive device for challenged individuals
WO 2023284435 A1	HUAWEI CLOUD COMPUTING TECH CO LTD	Method and apparatus for generating animation
WO 2023002962 A1	SOUND FUN CORP	Speaker unit and speaker curved diaphragm
WO 2023282703 A1	SAMSUNG ELECTRONICS CO LTD	Image processing device and operation method thereof
WO 2022271381 A1	MICROSOFT TECHNOLOGY LICENSING LLC	Sign language and gesture capture and detection

WO 2023283268 A1	KINTRANS INC	Automatic body movement recognition and association system including smoothing, segmentation, similarity, pooling, and dynamic modeling
WO 2023276640 A1	UNIV TSUKUBA	Flying object control system, flying object control method, and program
WO 2023277421 A1	KOREA ELECTRONICS TECHNOLOGY	Method for segmenting sign language into morphemes, method for predicting morpheme positions, and method for augmenting data
WO 2023014030 A1	SAMSUNG ELECTRONICS CO LTD	Display device and operating method therefor
WO 2023278857 A2	THE RES INSTITUTE AT NATIONWIDE CHILDRENS HOSPITAL	Interactive reading assistance system and method
WO 2023007509 A1	INDIAN INST TECHNOLOGY BOMBAY	Method and system for time-scaled audiovisual feedback of speech production efforts

[...ver más](#)

AYUDA A LA MOVILIDAD

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
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WO 2023038551 A1	OBSHCHESTVO S OGRANICHENNOI OTVETSTVENNOSTI U «EXAURUS»	Wearable mechanism for supporting a user's body
WO 2023038552 A1	OBSHCHESTVO S OGRANICHENNOI OTVETSTVENNOSTI U «EXAURUS»	Wearable device for supporting a user's posture
WO 2023021159 A1	ETA BIOENGINEERING S R L	Under-actuated soft exoskeleton with cable actuation system for upper limb assistance
WO 2023027880 A1	BATTELLE MEMORIAL INSTITUTE	Neuromuscular electrical stimulation controlled by computer vision
WO 2023027882 A1	BATTELLE MEMORIAL INSTITUTE	Guided rehabilitation to relearn motor control using neuromuscular electrical stimulation
WO 2023031191 A1	OTTOBOCK SE & CO KGAA	Orthopaedic device
WO 2023009268 A1	MICROSOFT TECHNOLOGY LICENSING LLC	Multisensorial intelligent footwear
WO 2023273389 A1	UBTECH ROBOTICS CORP LTD	Method for detecting human lying posture and mobile machine using same
WO 2023017171 A1	FESTOOL GMBH	Carrying device and method
WO 2023037116 A1	DUCHENNE UK	Gesture controller
WO 2023017175 A1	FESTOOL GMBH	Exoskeleton and method
WO 2023023567 A1	ROAM ROBOTICS INC	Mobile power source for a mobile robot
WO 2023039207 A1	UNIV PITTSBURGH COMMONWEALTH SYS HIGHER EDUCATION	Treatment of motor impairment and/or proprioception impairment due to neurological disorder or injury
WO 2023017177 A1	FESTOOL GMBH	Exoskeleton and method
WO 2023017170 A1	FESTOOL GMBH	Exoskeleton device and method
WO 2023017172 A1	FESTOOL GMBH	Electrically operable apparatus and method
WO 2023017243 A1	GAITAR LTD	Apparatus and method
WO 2023023462 A1	SCHROEDER GARY	Walking device with pick up mechanism
WO 2023023562 A1	ROAM ROBOTICS INC	Data inferences from a wearable robot
WO 2023017176 A1	FESTOOL GMBH	Exoskeleton apparatus and method
WO 2023017173 A1	FESTOOL GMBH	Exoskeleton device and method
WO 2023024144 A1	SHENZHEN ENHANCED POWER TECH CO LTD	Waist fixing and supporting apparatus and motion assisting device
WO 2022271105 A1	UNIVERZITETNI REHABILITACIJSKI INST REPUBLIKE SLOVENIJE – SOCA	Modular tendon-actuated exoskeleton for gait training
WO 2023277592 A1	BOILLABS INC	Prosthetic foot
WO 2023023565 A1	ROAM ROBOTICS INC	Actuator features to improve function of a mobile robot
WO 2023273324 A1	UNIV HONG KONG POLYTECHNIC	Gait event-driven, phase-dependent and multi-modal foot rehabilitation system and use method thereof
WO 2022266516 A1	BLOOMFIELD JAMES	Navigation system for the visually impaired
WO 2023281401 A1	IUVU S R L	Passive lumbar exoskeleton
WO 2022266063 A1	WASHINGTON UNIVERSITY ST LOUIS	Systems and methods for transcutaneous auricular vagal nerve stimulation to enhance motor learning, rehabilitation, and bci applications
WO 2023278067 A1	MICROSOFT TECHNOLOGY LICENSING LLC	Guidance system for the creation of spatial anchors for all users, including those who are blind or low vision

WO 2022262302 A1	GUANGZHOU SHIYUAN ELECT TECH	Passive lower-limb exoskeleton
WO 2023002604 A1	MITSUBISHI ELECTRIC CORP	Behavior assistance system
WO 2023017169 A2	FESTOOL GMBH	Exoskeleton and method
WO 2023023838 A1	MAWASHI SCIENCE & TECH INC	An exoskeleton for handling objects and method of using the same
WO 2022265601 A1	MANISA CELAL BAYAR UNIV STRATEJI GELISTIRME DAIRE BASKANLIGI	A drive mechanism
WO 2022263878 A1	ZAMANI YASAMIN	Adjustable ankle tensile fastener
WO 2022269641 A1	SH FORHEALTH SOLUTIONS PRIVATE LTD	Intelligent lower-limb orthosis system for exercise therapy and method therefor
WO 2023003868 A1	ENHANCE TECH LLC	Flexible exoskeleton frames and arm support systems and methods for using them
WO 2022268580 A1	BOCK OTTO HEALTHCARE PROD GMBH	Covering element and system made up of a covering element and an orthopaedic device
WO 2023025904 A2	FRAUNHOFER GES FORSCHUNG	Carrying aid system
WO 2022260294 A1	NAT REHABILITATION CT	Upper limb exercise equipment which enables exercise of pair of arms
WO 2023017174 A1	FESTOOL GMBH	Exoskeleton device and method
WO 2023012355 A2	FRAUNHOFER GES FORSCHUNG	Exoskeleton having an elastic joint, and joint for elastic connection
WO 2023277799 A2	NAT UNIV SINGAPORE	Reconfigurable rotary series elastic actuator

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TELEASISTENCIA SANITARIA

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
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WO 2023023225 A1	VERILY LIFE SCIENCES LLC	Liquid coupled blood pressure sensor
WO 2023026158 A1	ANALYTICS FOR LIFE INC	Methods and systems for engineering conduction deviation features from biophysical signals for use in characterizing physiological systems
WO 2023286677 A1	PANASONIC IP MAN CO LTD	Information processing device, information processing method, and program
WO 2023032477 A1	NIKON CORP	System, information processing device, information processing method, and program
WO 2023023159 A1	KLINRISK INC	Systems and methods for predicting kidney function decline
WO 2023031927 A1	TOPSIGHT MONITORING LTD	Wearable physiological monitoring system
WO 2023037415 A1	FUJI CORP	Behavior monitoring system and power saving method thereof
WO 2023036579 A1	KONINKLIJKE PHILIPS NV	Methods and systems for improving health measurement quality using activity-based invitations
WO 2023007368 A1	ODA OSSIGENO DALLAMBIENTE S R L	Monitoring device of an oxygen concentrator
WO 2023041693 A1	KARETEQ	System and method for predicting that an individual will fall
WO 2022260892 A1	TWENTY TWENTY THERAPEUTICS LLC	Optical intraocular pressure sensor in cornea for free-space interrogation
WO 2023286213 A1	NIPPON TELEGRAPH & TELEPHONE	Estimation device, method, and program
WO 2023038170 A1	K RAYS INC	Optical fusion wave treatment device, system, and method which are capable of transmitting body temperature of coronavirus patient through smartwatch
WO 2023037348 A1	THOMPSON BENJAMIN SIMON	System and method for monitoring human-device interactions
WO 2023038152 A1	OPTIM CORP	Program, method, information processing device, and system
WO 2023034301 A1	EMED LABS LLC	Image processing and presentation techniques for enhanced proctoring sessions
WO 2022268931 A1	UNIV COLLEGE DUBLIN NATIONAL UNIV OF IRELAND	Remote monitoring of respiration
WO 2023023501 A1	EMED LABS LLC	Mobile device stands for at-home diagnostics and healthcare
WO 2022272057 A1	INNSIGHTFUL INC	Devices, systems, and methods for mental health assessment
WO 2022268492 A1	KONINKLIJKE PHILIPS NV	Patient context detection
WO 2023000112 A1	HIGHWAY INNOVATION INC	Remote diagnostic system with portable diagnostic devices and method therefor
WO 2022269192 A1	MATRIX	Device for physiological measurements, and associated set-up method
WO 2022259595 A1	SONY GROUP CORP	Nursing care robot
WO 2023004385 A1	HOLOGRAPHIC HUMANITY LLC	Imaging device performing image analysis to facilitate early detection of distal extremity altered perfusion states and methods therefor
WO 2022272005 A1	KOGAN DANIEL	System and method for optimizing home-visit appointments and related travel
WO 2023012780 A1	HISENSE LTD	Systems, methods and smart mattresses for monitoring a subject in a specific environment
WO 2023007930 A1	PANASONIC IP MAN CO LTD	Determination method, determination device, and determination system
WO 2023009859 A2	GET GRIN INC	Modeling dental structures from dental scan
WO 2022267006 A1	BOE TECHNOLOGY GROUP CO LTD	Anti-lost method and system, readable storage medium, cloud server, and mobile terminal
WO 2023275862 A1	MOTIONIZE ISRAEL LTD	A method and system for assessing performance

WO 2023279082 A1	RES TRIANGLE INST	Systems, methods, and devices for detecting viral respiratory illness in presymptomatic and asymptomatic infected persons
WO 2023000080 A2	LIFEGUARD DIGITAL HEALTH INC	Monitoring system for congregate care facilities
WO 2023282826 A1	PINK NECTARINE HEALTH AB	A monitoring system, a wearable device, a network and methods for activating a sensor in a wearable device communicatively connected to the network and carried by an individual
WO 2023282828 A1	PINK NECTARINE HEALTH AB	A wearable device, a system and methods for fast establishment of a communication connection for a call involving a wearable device connected to a network

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OTRAS REFERENCIAS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
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WO 2023023509 A1	THEATOR INC	Automated analysis of video data during surgical procedures using artificial intelligence
WO 2023031842 A1	KHACHIKYAN KAREN	Device for a card game
WO 2023027897 A1	SONY INTERACTIVE ENTERTAINMENT INC	Dynamic augmentation of stimuli based on profile of user
	PALACIOS JORGE ARROYO	
WO 2023031890 A1	SHARMA BRAHMADEV	Context based adaptable video cropping
WO 2022264176 A1	STANCIU ROZA TANTA	A seat for a toilet bowl for washing a person sitting on said seat
WO 2023001680 A1	FRESENIUS MEDICAL CARE DEUTSCHLAND GMBH	Customization of an operating system of a medical device
WO 2023038569 A1	RAZER ASIA PACIFIC PTE LTD	Wrist rest and system
WO 2023281545 A1	PESENTI IVAN CARLO	Centralized device for the distribution and regulation of sanitary water with voice assistant
WO 2022264282 A1	NIPPON TELEGRAPH & TELEPHONE	Social resource presentation device, social resource presentation method, and program
WO 2023281649 A1	NIPPON TELEGRAPH & TELEPHONE	Guide rope
WO 2023007227 A1	MED EL ELEKTROMEDIZINIS CHE GERAETE GMBH	Method, device and system to determine a frequency function of a basilar membrane of cochleae to tune cochlear implants
WO 2023012813 A1	TVS MOTOR CO LTD	A navigation system, a control unit and a method of navigation for a motor vehicle
WO 2023278559 A1	UNIV NEW YORK	Systems, methods and computer-accessible medium facilitating deployment of antidepressants and other prescription drugs
WO 2023278888 A1	PREC NEUROSCIENCE CORPORATION	Systems and methods for high-bandwidth minimally invasive brain-computer interfaces
WO 2023004165 A1	TAN KAR HAN	Autonomous mobile robot
WO 2022255945 A2	AGENCY SCIENCE TECH & RES	A liquid sensor for a diaper and method of manufacturing the same

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