



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
WO 2024123140 A1	ZIOVISION CO LTD	Care robot system capable of recognizing facial expressions and behaviors
WO 2024128998 A1	TAS AHMET MUHAMMED	An intelligent platform that can be watched and rate a movie and create and use a movie- specific nft
WO 2024104621 A1	OAHU B V	Sensor door button being attachable to a window panel of a vehicle door
WO 2024104945 A1	SIVANTOS PTE LTD	Method for operating a hearing aid, and hearing aid
WO 2024121047 A1	VOLKSWAGEN AG	Method for operating a system comprising a self-driving vehicle
WO 2024084528 A1	LINEAR S R L	Compression method for hearing aids
WO 2024084299 A1	SONY GROUP CORP	Selective speech-to-text for deaf or severely hearing impaired
WO 2024072524 A1	MICROSOFT TECHNOLOGY LICENSING LLC	Indication of tone support via format specifier
WO 2024074267 A1	THALES DIS FRANCE SAS	Method and device for capturing a numerical code
WO 2024076437 A1	MICROSOFT TECHNOLOGY LICENSING LLC	Framework for interaction and creation of an object for a 3d experience in an accessibility environment
WO 2024060655 A1	ZTE CORP	Bar code information processing method, electronic device, and computer readable medium
WO 2024056114 A1	VENGOECHEA PINERES JAIRO ENRIQUE	Selective non-cochlear titanium oxide brain implant with gold electrodes for people with a hearing impairment
WO 2024059427 A1	QUALCOMM INC	Source speech modification based on an input speech characteristic
WO 2024063364 A1	SAMSUNG ELECTRONICS CO LTD	Electronic device, and control method of electronic device
WO 2024089122 A2	WIDEX AS	Back-venting earpiece
WO 2024068691 A1	SIVANTOS PTE LTD	Hearing aid and method for operating same
WO 2024079063 A1	WIDEX AS	A hearing estimation system
WO 2024088747 A1	WIDEX AS	Electronic sound recording device, in particular hearing instrument
WO 2024071186 A1	UBITONE INC	Portable information terminal
WO 2024121143 A1	SONY SEMICONDUCTOR SOLUTIONS CORP	Image synthesis apparatus and method
WO 2024076434 A1	MICROSOFT TECHNOLOGY LICENSING LLC	Interoperability for translating and traversing 3d experiences in an accessibility environment
WO 2024089490 A1	COCHLEAR LTD	Medical implant with integrated electrical and vibrational stimulation
WO 2024081854 A1	THE US GOV AS REPRESENTED BY THE DEPARTMENT OF VETERANS AFFAIRS	Devices, systems, and methods for auricular vagus nerve stimulation
WO 2024062294 A1	VOITHY TECH LTD	A smart organizer system
WO 2024084820 A1	OKUYAMA ICHIRO	Singing assistance mask
WO 2024090078 A1	SONY GROUP CORP	Information processing device, information processing method, and program
WO 2024101929 A1	SAMSUNG ELECTRONICS CO LTD	Confidence-based interactable neural-symbolic visual question answering
WO 2024080633 A1	SAMSUNG ELECTRONICS CO LTD	Electronic device and operation method thereof
WO 2024054151 A1	SIVANTOS PTE LTD	Shared coil topology for communication and charging

WO 2024096827 A1	TURKIYE GARANTI BANKASI ANONIM SIRKETI	A system for managing a voting process
WO 2024097360 A1	UNIV COLUMBIA	Systems and methods for enhancing auditory attention decoding using spatial cues
WO 2024076312 A1	NEW SENSES UZAY TEKNOLOJI VE SAGLIK ARASTIRMALARI ANONIM SIRKETI	A device for the hearing impaired
WO 2024096519 A1	SAMSUNG ELECTRONICS CO LTD	Display device for obtaining output image by using edge image, and method for controlling same
WO 2024073246 A1	SONY INTERACTIVE ENTERTAINMENT INC	Outputting braille or subtitles using computer game controller
WO 2024098117 A1	JIMPLE PTY LTD	Communication aid, communication system, and associated methods
WO 2024076039 A1	ASAN FOUND	Haptic feedback device and method
WO 2024086538 A1	SNAP INC	Sign language interpretation with collaborative agents
WO 2024102917 A2	CALIFORNIA INST OF TECHN	Method and system for pre-training and stabilizing neuroimaging brain-machine interfaces
WO 2024077147 A2	UNIV UTAH RES FOUND	Wearable haptic feedback device

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AYUDA A LA MOVILIDAD

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
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WO 2024126420 A1	OTTOBOCK SE & CO KGAA	Orthopedic joint device
WO 2024129000 A1	UNIV OZYEGIN	An attachment device for use in exoskeleton systems
WO 2024126914 A1	COMMISSARIAT ENERGIE ATOMIQUE	Screw/nut actuator with improved compactness
WO 2024122772 A1	ANGEL ROBOTICS CO LTD	Lower-body brace assembly of wearable robot, and wearable robot equipped with same
WO 2024127131 A1	MILANO POLITECNICO	Guidance method and system comprising traction cable for users with visual disabilities and robotic assembly including said system
WO 2024104820 A1	BOCK OTTO HEALTHCARE PROD GMBH	Orthopaedic device
WO 2024115820 A1	GUISTHAU GUILLAUME	Hybrid load-carry exoskeleton backpack
WO 2024121020 A1	DAN REHAB AS	A method for dressing hosiery on a person
WO 2024122923 A1	SAMSUNG ELECTRONICS CO LTD	Motion assistance apparatus
WO 2024126930 A1	COMMISSARIAT ENERGIE ATOMIQUE	Screw-nut actuator and position-adjustable rotary output
WO 2024128625 A1	IUCF HYU	Walking mat and walking state determination method using same
WO 2024059857 A1	SARCOS CORP	Length adjustable robotic limb with multiple degrees of freedom
WO 2024079632 A1	IUVO S R L	Torque generator device
WO 2024089658 A1	SNCF VOYAGEURS	Exoskeleton for assisting head movements
WO 2024089659 A1	SNCF VOYAGEURS	Exoskeleton for assisting trunk movements
WO 2024097376 A1	SARCOS CORP	Adjustable exoskeleton foot-supporting appendage for variable human kinematic compatibility
WO 2024062364 A1	FONDAZIONE ST ITALIANO TECNOLOGIA	Exoskeleton for supporting the back of a user
WO 2024068879 A1	ERGOSANTE TECH	Passive exoskeleton for relief of the spinal column
WO 2024060163 A1	XU LIANLI	Elderly walking auxiliary apparatus having health monitoring functionality
WO 2024089660 A1	SNCF VOYAGEURS	Exoskeleton for assisting foot movements
WO 2024084433 A1	MECH LAB SRL	Wearable exoskeleton with knee joint
WO 2024057251 A1	VOLKANUS SRL	Fall-prevention functional limitation device
WO 2024063658 A1	HOFFMANN QUINONES FRANCISCO	Remote-controlled integrated mobile equipment for transporting disabled patients
WO 2024070409 A1	KUMAGAI GUMI CO LTD	Walker
WO 2024098141 A1	LES SYSTEMES SKYWALK INC	Carriages and systems for assisting with staircase navigation
WO 2024089870 A1	MAXELL LTD	Portable information terminal, virtual space system, and control method for portable information terminal
WO 2024101705 A1	SAMSUNG ELECTRONICS CO LTD	Wearable device and method for controlling same device
WO 2024071708 A1	SAMSUNG ELECTRONICS CO LTD	Wearable device and method for controlling same
WO 2024085778 A1	INST SUPERIOR TECNICO	Joint actuation device
WO 2024091996 A1	HARMONIC BIONICS INC	Robotic joint including a remote center of motion mechanism
WO 2024097040 A1	UNIV FLORIDA	Apparatus and method using a spring-powered knee exoskeleton for gait assistance
WO 2024090801 A1	SAMSUNG ELECTRONICS CO LTD	Wearable device performing wireless power transmission and wireless communication, and operation method therefor

WO 2024071984 A1	CATHOLIC UNIV KOREA IND ACADEMIC COOPERATION FOUNDATION	Smart cane for visually impaired person
WO 2024102065 A1	UNIV NANYANG TECH	Gait trajectory control method and gait trajectory system
WO 2024080565 A1	SAMSUNG ELECTRONICS CO LTD	Wearable device
WO 2024096752 A1	HAPAI TRANSFER SYSTEMS LTD	Friction-lift torso harness and patient handling device
WO 2024071679 A1	SAMSUNG ELECTRONICS CO LTD	Method for generating synthetic gait data, and electronic device performing method
WO 2024081367 A1	UNIV LELAND STANFORD JUNIOR	Linear exoskeleton for reducing knee contact force
WO 2024073833 A1	UNIV WESTERN ONTARIO	Electroadhesion control of rotary motion
WO 2024063457 A1	SAMSUNG ELECTRONICS CO LTD	Methods and systems for determining a step count of a user
WO 2024089313 A1	UNIV MIGUEL HERNANDEZ DE ELCHE	Rehabilitation robot with hybrid actuator for aquatic environments
WO 2024101967 A1	BOILLABS INC	Prosthetic foot
WO 2024072560 A2	SALUS SCIENT CORP	A radiation shielding garment, a weight transfer support system, and method of making and using the same

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TELEASISTENCIA SANITARIA

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
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WO 2024107807 A1	ROM TECH INC	System and method for enabling residentially-based cardiac rehabilitation by using an electromechanical machine and educational content to mitigate risk factors and optimize user behavior
WO 2024126569 A1	KONINKLIJKE PHILIPS NV	Systems and methods for determining locations of assets
WO 2024115233 A1	KONINKLIJKE PHILIPS NV	Method, device, and system to provide guidance for more optimal ppg sensor placement
WO 2024129649 A1	CARDIAC PACEMAKERS INC	Entropy based heart sound tracking
WO 2024104835 A1	ORANGE	Method and device for monitoring the level of stress of a user
WO 2024115427 A1	KONINKLIJKE PHILIPS NV	Methods for long-distance respiration rate measurement using noisy and irregularly sampled sensor signals
WO 2024115345 A1	KONINKLIJKE PHILIPS NV	System and method for patient monitoring
WO 2024064305 A1	KORPMAN RALPH A	Individual entity life record engine and system
WO 2024110322 A1	KONINKLIJKE PHILIPS NV	Cardiac telemetry system with symptom description and method of operation thereof
WO 2024115074 A1	BIOTRONIK SE & CO KG	Implantable medical device configured to compute a burden measure
WO 2024058226 A1	KYOCERA CORP	Electronic apparatus, method for controlling electronic apparatus, and program
WO 2024117133 A1	TERUMO CORP	Vitals measurement device, vitals measurement method, and vitals measurement system
WO 2024058225 A1	KYOCERA CORP	Electronic device, method for controlling electronic device, and program
WO 2024095250 A1	ELBIT SYSTEMS C4I AND CYBER LTD	Directional search and rescue system and method
WO 2024104162 A1	HUAWEI TECH CO LTD	Communication sensing method and apparatus
WO 2024106544 A1	METS INC	Respiration count measurement device, respiration count measurement method, program, and system
WO 2024100687 A1	PLAN 1 HEALTH S R L	Portable electronic device for detecting the positioning of medical instruments and corresponding detection method
WO 2024081137 A1	WELCH ALLYN INC	Sepsis monitoring
WO 2024097827 A1	CARDIAC PACEMAKERS INC	Atrial fibrillation detection using heart sound morphology
WO 2024073446 A1	DISPATCHHEALTH MAN LLC	Constraint, resource, and goal optimized mobile care unit dispatching
WO 2024120860 A1	KONINKLIJKE PHILIPS NV	Sensor hub
WO 2024084306 A1	FUND CARDIOVASCULAR DE COLOMBIA	Portable vagus-nerve electrostimulation device synchronised with the breathing cycle
WO 2024089189 A1	OKULO LTD	Systems and methods for assessing visuo-cognitive function
WO 2024119021 A1	PLUME DESIGN INC	Home security via a wi-fi network
WO 2024100606 A1	FISHER & PAYKEL HEALTHCARE LTD	Patient monitoring method and system
WO 2024061662 A1	KONINKLIJKE PHILIPS NV	Methods and systems for patient discharge optimization using uplift probability
WO 2024090468 A1	NIKON CORP	Program, monitoring system, and control device
WO 2024117344 A1	AUTOWELLS CO LTD	Health monitoring system using piezoelectric sensor
WO 2024089684 A1	B G NEGEV TECHNOLOGIES AND APPLICATIONS LTD AT BEN GURION UNIV	Computerized method and system for assessment of quality of long-term management of patients
WO 2024107943 A1	WASHINGTON UNIVERSITY ST LOUIS	Systems and methods for personalized treatment of chronic pain with brain-computer interface and modular vibrotactile apparatus
WO 2024072813 A1	JOHNSON & JOHNSON CONSUMER INC	Cooperative longitudinal skin care monitoring
WO 2024072073 A1	AMONSENSE CO LTD	Hybrid communication device
WO 2024113050 A1	COGNITIVE SYSTEMS CORP	Configuring a motion sensing system for operation in an environment

WO 2024117664 A1	KIM NAMGYUN	Service provision system for monitoring indoor behavior pattern of person living alone
WO 2024081964 A1	COGNOA INC	Systems and methods for evaluating behavioral disorders, developmental delays, and neurologic impairments
WO 2024081781 A1	AURASENSE TECH CORP	Rehab and training interactive and tactile projections of sound and light
WO 2024098299 A1	GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP LTD	Communication method and communication device
WO 2024087134 A1	HONEYWELL INT INC	Smart socket with in-built isolation switch
WO 2024090466 A1	NIKON CORP	Overseeing system and control device
WO 2024090456 A1	NIKON CORP	Program, monitoring system, and control device
WO 2024092014 A1	UNIV NEW YORK	Systems and methods of obtaining vitals via phone call
WO 2024068953 A1	PRESAGE	System for remote monitoring of a potentially elderly individual in an everyday environment
WO 2024055249 A1	MEDTRUM TECH INC	Management device and method for displaying glucose information
WO 2024075919 A1	JANG MINSEOK	lot camera-based smart home emergency processing device
WO 2024080957 A1	ATILIM UNIV	A system for physiotherapy monitoring and a related method thereof
WO 2024090187 A1	UNIV OF TOYAMA	Episode memory ability improvement device, program, method, and system
WO 2024072928 A1	ANDORHEALTH LLC	Care provider routing systems
WO 2024097431 A1	HAJEEBU SREEHITA	System and method of wound assessment
WO 2024097260 A2	MASSACHUSETTS INST TECHNOLOGY	Systems and methods for supervised remote imaging-guided intervention
WO 2024087133 A1	HONEYWELL INT INC	SYSTEM AND METHOD FOR IDENTIFYING A PHYSICAL LOCATION AND/OR CONNECTIVITY OF AN IOT DEVICE IN A MESH NETWORK
WO 2024042853 A1	UNICHARM CORP	Information processing device, information processing method, and information processing program
WO 2024081850 A2	CLARITY TECH	Systems and methods for virtual reality-based health condition treatment

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OTRAS REFERENCIAS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2024129462 A1	ECOLINK INTELLIGENT TECHNOLOGY INC	Method and apparatus for detecting imminent use of an electronic device
WO 2024124252 A1	HISTOSONICS INC	Fluidics cart and degassing system for histotripsy systems and methods
WO 2024123271 A1	SUELEYMAN DEMIREL UENIVERSITESI IDARI VE MALI ISLER DAIRE BASKANLIGI GENEL SEKRETERLIK	Air quality measurement, air cleaning, positive/negative pressure feature sterile intensive care and isolation cabin automation
WO 2024108262 A1	FORMI GROUP PTY LTD	A posture alignment system
WO 2024079255 A1	MG DEV	Device and method for the ultrasonic cleaning of a hearing aid
WO 2024069488 A1	NOVOCURE GMBH	Ingestible implantable device to measure internal ttfeld intensity
WO 2024084414 A1	P R I S M E D SRL SOC BENEFIT	System and integrated method of standardized and automated disinfection in hospital and/or home environments
WO 2024096906 A1	SCHNELL MEDICAL LLC	Lightweight, portable pelvic exam device
WO 2024079536 A1	FARAHMAND FARROKH	Cuff for sphygmomanometers
WO 2024079777 A1	NEC CORP	Information processing system, information processing device, information processing method, and recording medium
WO 2024051925 A1	ESSITY HYGIENE & HEALTH AB	Sensor arrangement for sensing a filling state of an absorbent article
WO 2024102862 A2	UNIV PITTSBURGH COMMONWEALTH SYS HIGHER EDUCATION	Deep brain stimulation to treat focal epilepsy with motor and sensory manifestations
WO 2024058266 A1	MEIJI CO LTD	Method and device for evaluating eating ability
WO 2024060126 A1	NUTRICIA EARLY LIFE NUTRITION SHANGHAI CO LTD	Meal plan generating method, apparatus, and computer implemented algorithm thereof
WO 2024049099 A2	CHOI HYEONG RAK	Urine discharger detachably attached to underpants-type diaper
WO 2024076383 A1	TECTRAUM INC	System and method for cooling a person incorporating heart rate variability monitoring sensor

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