

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 2023234657 A1	SEOUL NAT UNIV R&DB FOUNDATION	Apparatus, method, and system for providing tactile media
WO 2023178120 A1	PROCTER & GAMBLE	Cap of a package suitable for storing personal health care products
WO 2023222951 A1	MANNINEN ALBERT	Apparatus and method for impaired visibility perception
WO 2023211611 A1	MICROSOFT TECHNOLOGY LICENSING LLC	Assistance user interface for computer accessibility
WO 2023180011 A1	BRITISH TELECOMM	A secure authentication token
WO 2023234883 A1	ANTALYA BILIM UNIV REKTORLUGU	A wearable system providing alternative input to the brain through the sense of touch based on converting text into vibration
WO 2023230381 A1	HOROWITZ JOSHUA	Braille embossing device using interchangeable braille letters on a wheel for labeling applications
WO 2023196083 A1	MICROSOFT TECHNOLOGY LICENSING LLC	Location adjustment with non-visual location feedback
WO 2023176191 A1	SONY GROUP CORP	Program, control device, hearing aid, communication device, hearing aid system, and control method
WO 2023182183 A1	SONY GROUP CORP	Information processing device and information processing method
WO 2023184982 A1	QINGDAO HAIER AIR CONDITIONER GENERAL CORP LTD	Air conditioner control device, and method and apparatus for concretizing operation state of air conditioner
WO 2023197949 A1	HUAWEI TECH CO LTD	Chinese translation method and electronic device
WO 2023193686 A1	EVOCO LABS CO LTD	Monitoring method and apparatus for hearing assistance device
WO 2023197043 A1	THE BIONICS INST OF AUSTRALIA	Systems, methods and devices for assessing hearing
WO 2023191334 A1	YANG GIHO	Key array for inputting romaji and keyboard of having same
WO 2023195603 A1	SAMSUNG ELECTRONICS CO LTD	System and method for bidirectional automatic sign language translation and production

[...ver más](#)

AYUDA A LA MOVILIDAD

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
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WO 2023233205 A1	KUBE MATTHIAS	Exoskeleton and method for handling same
WO 2023230726 A1	B TEMIA INC	Compact, full-range of motion and multi-degree of freedom structure for supporting orthotic devices
WO 2023227659 A1	MAGNES AG	Intervention based on detected gait kinematics
WO 2023242650 A1	PRO MEDICARE S R L	Support and restraint system for the human body, or for a segment of the human body, provided with retaining means
WO 2023229164 A1	HEXARHUMANCARE CO LTD	Wearable robot having improved leg-wearing structure
WO 2023224460 A1	GALLARDO INZUNZA JUAN CARLOS	Electromechanical chair for the conveyance and handling of persons
WO 2023234197 A1	SONY GROUP CORP	Information processing device, information processing method, and information processing program
WO 2023230727 A1	B TEMIA INC	High-mobility efficient load-transfer sacro-lumbar articulated dorsal structure for orthotic structures
WO 2023208904 A1	WANDERCRAFT	Orthosis comprising a mechanical hip connection with three degrees of freedom
WO 2023209573 A1	LENOVO SINGAPORE PTE LTD	Configuring participation in a radio sensing operation
WO 2023214026 A1	OTTOBOCK SE & CO KGAA	Method for setting up an orthopaedic device
WO 2023230716 A1	MAWASHI SCIENCE & TECH INC	Upper body chassis
WO 2023177383 A1	ESPER INC	A mechanical finger for an artificial wrist and a mechanical finger actuator
WO 2023180958 A1	IUVO S R L	Sensorized upper limb exoskeleton
WO 2023226376 A1	YROBOT SUZHOU CO LTD	Powered exoskeleton system with distributed structure, and control method
WO 2023214028 A1	OTTOBOCK SE & CO KGAA	Method for setting up an orthopaedic device
WO 2023218365 A1	MACH 1 SRL	Backpack with indicator lights
WO 2023183364 A1	OSSUR ICELAND EHF	Interface for an exoskeleton
WO 2023212436 A1	QUALCOMM INC	Generating mapping information via barrier type detection using time-of-flight and receive signal strength indication
WO 2023229217 A1	GONG SAENG CO LTD	Transfer aid device
WO 2023181741 A1	SONY SEMICONDUCTOR SOLUTIONS CORP	Sensor module, mouthpiece-type device, and system
WO 2023195665 A1	BOILLABS INC	Prosthetic foot
WO 2023214948 A1	UNIV ISTANBUL GELISIM	Jet powered chair
WO 2023219245 A1	SAMSUNG ELECTRONICS CO LTD	Method and system for providing exercise program to user
WO 2023214372 A1	KLAXON MOBILITY GMBH	Auxiliary traction device for wheelchairs for the disabled
WO 2023199562 A1	KONICA MINOLTA INC	Walking analysis system, walking analysis device, and program
WO 2023223077 A2	KHADEMI AMIR	A training system for disable people
WO 2023188280 A1	NEC CORP	Movement information generation device, movement information generation system, movement information generation method, and recording medium
WO 2023191607 A1	AUTONOMOUS ORGANIZATION OF EDUCATION «NAZARBAYEV UNIVERSITY»	Gait rehabilitation robot
WO 2023179219 A1	GUANGZHOU SHIPENG TECH CO LTD	Exoskeleton system

WO 2023208621 A1	CONTINENTAL AUTONOMOUS MOBILITY GERMANY GMBH	Transportation device, coupling assembly for affixing onto a movable device, and method of driving a movable device
WO 2023192572 A1	SUITX INC	Exoskeletons comprising flexible mechanisms
WO 2023214945 A1	UNIV ISTANBUL GELISIM	A smart cane that increases environmental awareness, has a monitoring system and is suitable for every size
WO 2023216683 A1	TENCENT TECH SHENZHEN CO LTD	Obstacle avoidance prompting method and apparatus, and device
WO 2023183995 A1	DANTAS FERNANDO	Structural arrangement for a device for rehabilitation and training of people with or without physical motor limitations
WO 2023225648 A1	UNIV NORTH CAROLINA STATE	Method to reduce human exertion during walking without affecting gait kinematics
WO 2023195627 A1	HEXARHUMANCARE CO LTD	Robotic exoskeleton supporting hip joint muscle strength and manual muscle strength support device therefor
WO 2023212591 A2	UNIV VANDERBILT	An interface for a wearable assistance device
WO 2023220775 A1	UNIV WOLLONGONG	PRESSURE-BASED FORCE MYOGRAPHY (pfm) SYSTEM FOR DETERMINING BODY MOVEMENT
WO 2023193463 A1	YROBOT SUZHOU CO LTD	Driving apparatus for wearable exoskeleton
WO 2023193464 A1	YROBOT SUZHOU CO LTD	Ankle-assisting exoskeleton support
WO 2023194790 A1	KHABIRI HAMID	A wearable assistive robot
WO 2023200783 A1	UNIV CALIFORNIA	An actuator for an exoskeleton
WO 2023204981 A1	UNIV LELAND STANFORD JUNIOR	Method of personalizing performance of exoskeletons
WO 2023183979 A1	SKYBUDI PTY LTD	Aircraft stretcher
WO 2023212711 A2	VIRGINIA TECH INTELLECTUAL PROPERTIES INC	Forearm exoskeleton for tremor alleviation
WO 2023220687 A2	UNIV UTAH RES FOUND	Magnetic cogging parallel-elastic actuator
WO 2023192389 A2	UNIV MICHIGAN	Catcher's knee exoskeleton

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TELEASISTENCIA SANITARIA

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2023233223 A1	MEDTRONIC INC	Cardiac monitor device
WO 2023232861 A1	UNIV OTTO VON GUERICKE MAGDEBURG	Method and device for assessment of peripheral neuropathy
WO 2023227671 A1	BOTTNEURO AG	Electrode helmet for electrical recording and/or stimulation
WO 2023239684 A1	JOHNSON & JOHNSON CONSUMER INC	Methodology related to dehydration treatment
WO 2023242337 A1	SIGNIFY HOLDING BV	System and method for detecting a fall of a person
WO 2023177824 A1	EDWARDS LIFESCIENCES CORP	Integrated pressure diaphragm
WO 2023180167 A1	KONINKLIJKE PHILIPS NV	Ultrasound system with customization unit
WO 2023196651 A1	ALIVECOR INC	Detection of cardiac conditions from reduced lead set ecg
WO 2023198655 A1	KONINKLIJKE PHILIPS NV	Patient monitoring device
WO 2023192715 A1	QUALCOMM INC	Methods and apparatuses for waveform designs for radio frequency sensing
WO 2023194408 A1	VITIO MEDICAL S L	Method and system for remote monitoring of a vital sign of a patient
WO 2023203384 A1	FGC HOLDINGS LTD	Contactless patient monitoring system
WO 2023208760 A1	BEARCOVER GMBH	Monitoring device and method for operating a monitoring device
WO 2023200327 A1	BELTRAN RAMIREZ JESUS RAUL	Portable device for carrying out electrocardiograms and measuring the temperature of a patient
WO 2023208775 A1	KONINKLIJKE PHILIPS NV	Digital twin uncertainty resolution
WO 2023209367 A1	I INNOVATIONS LTD	Incontinence detection by measuring ammonia levels
WO 2023196316 A1	ZIG THERAPEUTICS INC	Medication storage and closure container, medication delivery station for delivery of medication from a replaceable pre-filled medication storage and closure container, automated and adaptable remote medication management system including a medication delivery station, and methods of operating and/or utilizing the same
WO 2023183870 A1	ZIBRIO THE BALANCE COMPANY	Fall risk analysis using balance profiles
WO 2023214525 A1	AP TECH INC	Information processing device, information processing terminal, information processing system, information processing method, and program for constituting end-to-end comprehensive monitoring (from terminal device through cloud back to multiple terminals) and multistep authentication (for example, combination of internet and lpwa) system thereof
WO 2023197957 A1	HUAWEI TECH CO LTD	Age-determination method and wearable device
WO 2023181822 A1	TERUMO CORP	Analysis device, analysis system, and analysis method
WO 2023209718 A1	DENTLYTEC G P L LTD	Remote dental healthcare
WO 2023176694 A1	DENSO WAVE INC	Drug management system
WO 2023220008 A1	NURSE LLOYD CLEVELAND	Medication magazines and intelligent medication management systems
WO 2023200079 A1	I SENS INC	Applicator and applicator assembly
WO 2023200078 A1	I SENS INC	Applicator and applicator assembly
WO 2023205858 A1	SALUDA MEDICAL PTY LTD	Improved programming of neural stimulation therapy
WO 2023215733 A2	GEORGIA TECH RES INST	Smart bioelectronic pacifier for real-time continuous monitoring of salivary electrolytes
WO 2023224066 A1	NEW COSMOS ELECTRIC CO	Volatile material monitoring system and volatile material monitoring method
WO 2023233223 A1	MEDTRONIC INC	Cardiac monitor device
WO 2023232861 A1	UNIV OTTO VON GUERICKE MAGDEBURG	Method and device for assessment of peripheral neuropathy
WO 2023227671 A1	BOTTNEURO AG	Electrode helmet for electrical recording and/or stimulation

WO 2023239684 A1	JOHNSON & JOHNSON CONSUMER INC	Methodology related to dehydration treatment
WO 2023242337 A1	SIGNIFY HOLDING BV	System and method for detecting a fall of a person
WO 2023177824 A1	EDWARDS LIFESCIENCES CORP	Integrated pressure diaphragm
WO 2023180167 A1	KONINKLIJKE PHILIPS NV	Ultrasound system with customization unit
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WO 2023208760 A1	BEARCOVER GMBH	Monitoring device and method for operating a monitoring device

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OTRAS REFERENCIAS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2023230349 A1	STRYKER CORP	Alert system behavior based on localization awareness
WO 2023239737 A1	RHINOSTICS INC	Automation compatible collection device for biological fluids
WO 2023202894 A1	EURAC RES	Apparatus for detecting vital parameters in an ear of a human, and method for measuring vital parameters of a human
WO 2023242215 A1	KONINKLIJKE NEDERLANDSE AKADEMIE VAN WETENSCHAPPEN	High density brain electrode assembly for read-out and/or stimulation of brain tissue, for example a high density brain read-out and/or stimulation electrode assembly to read-out and/or stimulate a lateral geniculate nucleus of the thalamus to create visual perceptions in a mammal
WO 2023222526 A1	MANIGRIP APS	Hand-held grip aid device for hand instrument manipulation
WO 2023218490 A1	WINGECO SRL	Adaptive threshold for sliding doors
WO 2023203532 A1	BORDINI ALESSANDRO	Puzzle of jigsaw puzzle type illustrating an image
WO 2023203211 A1	CARETURNER AS	Turning a person in a bed
WO 2023222892 A1	ENABLE ACCESS HOLDINGS LTD	Ramps
WO 2023212785 A1	LUDDI PTY LTD	Stimulation system
WO 2023227101 A1	UNITED INNOMED SHANGHAI LTD	Implantable heart failure treatment device
WO 2023189327 A1	ARON KASEI KK	Portable toilet
WO 2023203315 A1	ENTIA LTD	Apparatus for centrifuging
WO 2023223198 A1	DELTAHUB D O O	Palm rest
WO 2023218858 A1	UNICHARM CORP	Information processing device, information processing method, and information processing program

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