

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 remotas.

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: 088-17-024-6

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 2018011575 A1	POLLARD ANDREW	Virtual reality headset
WO 2018042300 A1	BERTORA FRANCO	Bi-stable actuator based on electromagnetic attraction
WO 2018047094 A1	SICARI JOE	Multicomponent optical device for visual and audible translation and recognition
WO 2018041527 A1	BAHARUZU DOGAN	Image display device remote controller with double-side usability
WO 2017216474 A1	BANOUN BENJAMIN	Listening system
WO 2018001088 A1	LI XIAOJUN	Method and apparatus for presenting communication information, device and set-top box
WO 2018027885 A1	LIU WENTING	Bluetooth-based ultrasonic obstacle detection ankle band for blind persons
WO 2018034961 A1	CLARK JIMMIE R	Shopping cart for vision-impaired users
WO 2018027884 A1	LIU WENTING	Ultrasonic obstacle detection ankle band for blind persons
WO 2018044735 A1	WILCOX BRIAN	System and method for handling interactions with individuals with physical impairments
WO 2018005172 A1	KESLIN JONATHAN FRED	Augmenting text narration with haptic feedback
WO 2018036638 A1	JÜRIG SUDAN	Hearing device and hearing system as well as method for operating a hearing device
WO 2018025030 A2	ASHALL PETER	Smartphone accessory for visually impaired or elderly users
WO 2018028828 A1	HAUPTMANN CHRISTIAN	Adaptive stimulation tone adjustment for treating tinnitus in acoustic coordinated reset neuromodulation systems, devices, components and methods
WO 2018031009 A1	WELLEN ALEXANDER	Method and device for tactilely reading time on a touch screen
WO 2018008795 A1	KANG YU KWANG	Walkie-talkie combined with acupressure tool
WO 2018034400 A1	CHO JIN SOO	Method and device for controlling tactile interface device, and nontemporary computer-readable medium
WO 2018044409 A1	BACA JIM S	Methods, apparatuses, and systems to recognize and audibilize objects
WO 2017203536 A1	SHAH SHYAM	A braille cell and assembly for single-line braille display
WO 2018006363 A1	WANG HAOFEN	Virtual robot apparatus
WO 2018025182 A1	GONZÁLEZ RAMÍREZ PEDRO LUIS	Device for writing braille
WO 2018034054 A1	ONO AKIRA	Tactile presentation device, tactile presentation system and tactile presentation method
WO 2018037550 A1	NAKANO KOJI	Device for response operation for signal from unspecified sender and device for response operation for signal to unspecified receiver
WO 2018003986 A1	SUZUKI KENJI	Face-to-face interaction device, wearable device using same, and interaction facilitation method
WO 2018027137 A1	ANDREW SHALIT	Methods and systems for improving data entry into user interfaces
WO 2018013445 A1	MORRIS MEREDITH	Leveraging environmental context for enhanced communication throughput
WO 2018027453 A1	JIANG XIAOHENG	Artificial neural network
WO 2018000256 A1	SONG YINGNAN	Mobile phone and method for preventing phone fraud thereof
WO 2017216786 A1	NETZER OMRY	Automatic speech recognition
WO 2018025067 A1	OZOLINS GIRTS	An educational toy

[...ver más](#)

AYUDA A LA MOVILIDAD

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

WO 2018004345 A1	HELDER PAULUS CORNELIUS	Method and module for analyzing a posture of a person
WO 2018049031 A1	GLUKHOVSKY ARKADY	Methods and apparatus for body weight support system
WO 2018021909 A1	LUIJTEN JOHANNES	Exoskeleton glove
WO 2018047129 A1	VOUGA TRISTAN	Modular exoskeleton for example for spinal cord injured patients
WO 2018020032 A1	SOUCY FRANCISCO	Exoskeleton structure that provides force assistance to the user
WO 2018029064 A1	SONNTAG PETER	System and method for posture and movement regulation
WO 2018013320 A1	PATHAK ANUPAM J	High amplitude tremor stabilization by a handheld tool
WO 2018019802 A1	HUTTER MARCO	Joint unit, joint system, robot for manipulation and/or transportation, robotic exoskeleton system and method for manipulation and/or transportation
WO 2018007414 A1	GARREC PHILIPPE	Ambulatory exoskeleton - method for controlling an ambulatory exoskeleton
WO 2018000854 A1	LIU RUOPENG	Human upper limb motion intention recognition and assistance method and device
WO 2018012501 A1	HAYASHI TAKAYOSHI	Cane and oscillating dynamo device
WO 2018035875 A1	CUI TAI	Exoskeleton suit
WO 2018035877 A1	CUI TAI	Exoskeleton clothing
WO 2017221177 A1	DA SILVA PEREIRA JOÃO	Method and apparatus for creating a three-dimensional scenario
WO 2018004374 A1	BEREZIJ EKATERINA SERGEEVNA	Protective cover for an exoskeleton leg support
WO 2018027601 A1	LIU WENTING	Intelligent wheelchair control system and control method thereof
WO 2018035876 A1	CUI TAI	Exoskeleton clothing
WO 2018030734 A1	JUNG JU HO	3d simulation method and apparatus
WO 2018036571 A1	MORENO ARANGO JUAN DAVID	Robotic orthoses for hand and wrist rehabilitation
WO 2018001555 A2	REESE MARCEL	Exoskeleton and master
WO 2018003371 A1	KOMATSU MAYUMI	Gait assistance device and control method
WO 2017218661 A1	CONTRERAS-VIDAL JOSE LUIS	Customizable orthotic/prosthetic braces and lightweight modular exoskeleton
WO 2017223442 A1	KAZEROONI HOMAYOON	Semi-active robotic joint
WO 2018017436 A1	DING YE	Controls optimization for wearable systems
WO 2018022689 A1	ARTEMIADIS PANAGIOTIS	Mechanism for alleviating the effects of joint misalignment between users and wearable robots
WO 2017217883 A1	PIS'MENNAJA ELENA VALENTINOVNA	Heel cup for a leg brace of an exoskeleton
WO 2018022692 A1	ARTEMIADIS PANAGIOTIS	Spherical parallel manipulator architecture for shoulder robotic exoskeleton
WO 2018025531 A1	YASHIRO KUMI	Information processing device, information processing method, and program
WO 2017214259 A1	POPOVIC MARKO B	Biologically-inspired joints and systems and methods of use thereof

[...ver más](#)

TELEASISTENCIA SANITARIA

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2018019648 A1	LEIJSEN JACOBUS JOSEPHUS	Monitoring device for monitoring a physiological characteristic of a subject
WO 2018029193 A1	ESPINA PÉREZ JAVIER	Device, system and method for fall detection
WO 2018029560 A1	MENGHINI SABRINA	System and method for the monitoring of vital parameters.
WO 2018029127 A1	WIJSHOFF RALPH WILHELM CHRISTIANUS GEMMA ROSA	Sensor device and method, device and method for communication with the sensor device
WO 2018007738 A1	CIRE RÉGIS	System for monitoring a person within a residence.
WO 2018031570 A1	SHAH SONA	Systems and methods for medical monitoring
WO 2018030024 A1	SHIMAMURA KENTA	Watch-over system, watch-over device, watch-over method, and watch-over program
WO 2018033160 A1	CHEN MANG	Smart voice monitoring system and method
WO 2018032456 A1	CHEN GUOBIN	Remote auscultation method and system
WO 2018037074 A1	TOBIASSEN TERJE	Fall warning for a user
WO 2018030017 A1	KUSUDA MASAYUKI	Moving body detection unit and care support system
WO 2018032364 A1	ZHAO CHU	Smart navigation shoe
WO 2018032365 A1	ZHAO CHU	Smart healthy shoe
WO 2017220055 A1	KOLÁŘ VLADIMIR	Device for monitoring of patient's vital signs
WO 2018000293 A1	SONG YINGNAN	Care implementation method of smart bed
WO 2017216313 A1	SERRA RENAN	Floor-based person monitoring system
WO 2017222424 A1	ZAGUSKIN SERGEY L'VOVICH	Method for predicting adverse reactions in sick or elderly people
WO 2018034064 A1	KUSUDA MASAYUKI	Care support system
WO 2017221745 A1	HIRAO YUSUKE	Respiration rate display device and respiration rate display method
WO 2018031793 A1	FRANK NATHAN DANIEL	Methods of generating compression garment measurement information for a patient body part or body area of interest and use thereof
WO 2018022539 A1	LESZCZUK WILLIAM M	Aggregator system for enabling online access to encounter data from multiple disparate sources
WO 2018047673 A2	UKAWA TEIJI	Sensor unit and medical measurement system
WO 2017219023 A1	CHRISTIANSEN MICHELLE	Sensor for absorbent article
WO 2018027253 A1	BLOOMFIELD LOCHLAN JOHN	Health management system and method
WO 2018035678 A1	WANG JIALI	Method and system for adding camera
WO 2017212995 A1	NISHIKADO MASASHI	Device, method, and system for monitoring monitored person
WO 2018005729 A1	DEMIRTAS SEFA	On-demand heart rate estimation based on optical measurements
WO 2017213136 A1	KOGO SHOJI	Living body monitoring device and living body monitoring method
WO 2018005230 A1	GOVRO KOURTNEY	Systems and methods of adaptive management of caregivers
WO 2018013746 A1	KEHOE TIM	Home medication manager
WO 2017212690 A1	TANAKA JUNICHI	Display control device, display control system, display control method, display control program, and recording medium
WO 2017216424 A1	PAASONEN VILLE	Documenting system for care and/or nursing work
WO 2017216369 A1	CULLIN PETER	A telecare system
WO 2018011801 A1	DAFNA ELIRAN	Estimation of sleep quality parameters from whole night audio analysis

[..ver más](#)

OTRAS REFERENCIAS

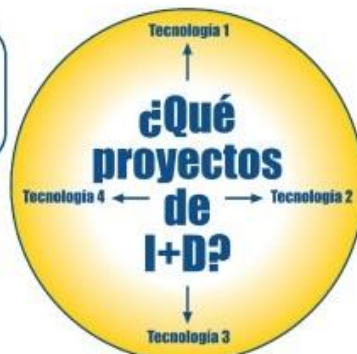
Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
----------------	-------------	-------------------

WO 2018013852 A1	O'CONNELL DE LA FLOR BERNADETTE	System and methods for cross-institutional process optimization
WO 2018025250 A1	GOZZELINO GIAN CARLO	Method for selecting and adjusting in a customised manner a hearing aid
WO 2018043798 A1	YOU JAEHONG	Apparatus for preventing unauthorized parking in designated parking space
WO 2018025082 A1	RAI KHUSHWANT	Braille printers and methods of making and using the same
WO 2018024720 A1	CHAVAS JOËL	Medical device intended to be worn in front of the eyes
WO 2018042400 A1	GERBER KATE	System for determining proximity of a surgical tool to key anatomical features
WO 2018043354 A1	UMEKITA TAISUKE	Notification reception system and notification reception method
WO 2017221924 A1	UDAGAWA TAKAHIRO	Counter reception system and service robot
WO 2018031861 A1	ITKOWITZ BRANDON D	Systems and methods for onscreen menus in a teleoperational medical system
WO 2018034606 A1	SJOEHOLM HANS	Handrail system comprising means for tactile communication
WO 2018006038 A1	BLODGETT SARAH K	Method for learning to read by using specialized text
WO 2018005583 A1	LI GUOPING	Bio-inspired fast fitting of cochlear implants
WO 2017213978 A1	CARLSON MATTHEW L	Devices and methods for treating tinnitus using electrical stimulation
WO 2018013884 A1	MULLER RIKKY	Neuromodulation apparatus, method and system
WO 2017220102 A1	HAMOUDA ALAA MOHAMED	Aqua vision - device, system and method for vision correction, and visually impaired divers

iiPor sólo 500€ añade 150 especialistas* a su Equipo de I+D!!



Los ITPs** de la OEPM nos proporcionan información imprescindible para decidir la priorización óptima de proyectos de I+D en los que invertir.



Los ITPs** de la OEPM nos han ahorrado horas de revisión bibliográfica para definir el punto de partida de nuestros proyectos de I+D.



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.



* La OEPM cuenta con más de 150 examinadores de patentes especializados en los diversos sectores tecnológicos y en la búsqueda de información científico-técnica.

** Los Informes Tecnológicos de Patentes o ITPs son estudios a la medida que incluyen una búsqueda de patentes y de literatura científica con un análisis en profundidad de los documentos más relevantes. Su coste es de 440 euros más IVA.