

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: 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
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WO 2019229501	LOCONSOLE CLAUDIO	Electromechanical device for reading and/or consulting refreshable tactile characters and/or shapes
WO 2019193017	SIVANTOS PTE LTD	Hearing system and additional device for such a hearing system
WO 2019233588	SONOVA AG	Microphone device to provide audio with spatial context
WO 2019231643	MICROSOFT TECHNOLOGY LICENSING LLC	Assistive device for the visually-impaired
WO 2019235913	INTERHEAR B V	Method for processing an audio signal for a hearing aid
WO 2019212760	MICROSOFT TECHNOLOGY LICENSING LLC	Enhanced accessibility in mixed reality experience for collaboration tools
WO 2019234424	DIGIT MUSIC LTD	Input device
WO 2019170872	HOLDING HEMIGLASS B V	Device, system and methods for compensating for partial loss of visual field
WO 2019210959	WIDEX AS	Hearing aid with inertial measurement unit
WO 2019232082	EYEDAPTIC INC	Hybrid see through augmented reality systems and methods for low vision users
WO 2019231216	SAMSUNG LIFE PUBLIC WELFARE FOUNDATION	Visual aid device and visual aid method by which user uses visual aid device
WO 2019239162	OXSIGHT LTD	Hand held device for controlling digital magnification on a portable display
WO 2019226051	KEPLER VISION TECH B V	Monitoring and analyzing body language with machine learning, using artificial intelligence systems for improving interaction between humans, and humans and robots
WO 2019226011	DOT INC	Information output device
WO 2019173265	BAYLOR COLLEGE MEDICINE	Systems and methods of conveying a visual image to a person fitted with a visual prosthesis
WO 2019187256	NEC SOLUTION INNOVATORS LTD	Conversation initiation timing determination device, conversation initiation timing determination method, and program
WO 2019218078	IRYSTECH SOFTWARE INC	System and method for color mapping for improved viewing by a color vision deficient observer
WO 2019217128	MICROSOFT TECHNOLOGY LICENSING LLC	Generating audio for a plain text document
WO 2019198405	SONY CORP	Information processing device, information processing system, information processing method and program
WO 2019207209	NAEKOEVAAMMAISTEN LIITTO RY	Braille teaching aid
WO 2019207575	NINISPEECH LTD	Diagnosing and treatment of speech pathologies using analysis by synthesis technology
WO 2019219968	DEEPMIND TECH LIMITED	Visual speech recognition by phoneme prediction
WO 2019222210	BRANDBUMPS LLC	Tactile warning panel system with geothermal system
WO 2019207573	NINISPEECH LTD	Diagnosis and treatment of speech and language pathologies by speech to text and natural language processing
WO 2019173136	UNIV OF MASSACHUSETTS MEDICAL SCHOOL OFFICE OF TECHNOLOGY MANAGEMENT	System for facilitating speech-based communication for individuals unable to speak or write

WO 2019210002	PITTS WALLACE	Magnetically programmable actuators for tactile conveyance of information
WO 2019200158	BELSON ORI	Systems and methods for improved communication with patients

[...ver más](#)

AYUDA A LA MOVILIDAD

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

WO 2019241671	BEHBOODI AHAD	Modular artificial skeletal muscle actuators and exoskeletons powered thereby
WO 2019240269	HONDA MOTOR CO LTD	Notification device
WO 2019233868	ICHO SYSTEMS GMBH	Physical exercise device having a proximity sensor, and control method
WO 2019240357	KIM HEE SEONG	Voice-assisted running sunglasses for visually handicapped
WO 2019229127	UNIV BRUSSEL VRIJE	Device comprising input and output pulleys on nonparallel or parallel and mutually hingeable axes
WO 2019245633	MOVEO WALKS INC	Systems and devices for assistive mobility
WO 2019211791	IUVO S R L	Actuation system in an exoskeleton
WO 2019219863	ERGOSANTE TECH	Support device for a mechanical arm of an exoskeleton
WO 2019239317	UNIV KING ABDULLAH SCI & TECH	Millimeter-wave radar-based autonomous navigation system
WO 2019181609	HITACHI INT ELECTRIC INC	Monitoring system and monitoring method
WO 2019221604	UNIV DELFT TECH	Exoskeleton glove
WO 2019180751	NIMBLE ROBOTICS S R L	System for rehabilitating the walk and weight supporting device for such system
WO 2019216763	ROBOT CARE SYSTEMS B V	Motorized walking aid
WO 2019173184	OSSUR ICELAND EHF	Modular rehabilitation system
WO 2019239113	ARM IP LTD	Methods and apparatus for indicating evacuation routes
WO 2019177435	LG ELECTRONICS INC	Belt for effective wearing and wearable assistive device having the same
WO 2019187030	YAMAMOTO KEIJIROU	Joint movement assistance device
WO 2019180753	NIMBLE ROBOTICS S R L	Device for blocking a shoe for a system for rehabilitating the walk, exoskeleton and system comprising such device
WO 2019225192	SONY CORP	Information processing device and information processing method
WO 2019184589	BOE TECHNOLOGY GROUP CO LTD	Exoskeleton recovery power assisting device
WO 2019177260	LG ELECTRONICS INC	Muscular strength assistance device for controlling attitude thereof according to operating mode
WO 2019191239	LOCKHEED CORP	Lower-body exoskeleton using electromyography for direct force amplification
WO 2019173751	APPTRONIK INC	Exoskeleton device with improved actuation system
WO 2019198064	SYMBIOSIS INTERNATIONAL DEEMED UNIV	A feedback based assistive system and method for visually impaired persons
WO 2019177261	LG ELECTRONICS INC	Muscular strength assistant apparatus performing protection operation for driving system
WO 2019211532	ERGOSANTE TECH	Load transfer belt adapted to carry at least one accessory of a passive exoskeleton
WO 2019197707	KSV FINLAND LLC	Movement aid

[...ver más](#)

TELEASISTENCIA SANITARIA

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2020004921	LINKOPTICS CO LTD	Device for assisting in sitting on and getting up from toilet stool having communication module for transmitting emergency call signal
WO 2019235944	AL ABRI AMIRA SAID HAMAD	Smart blood pressure measurement device for the elderly, those with special need and other groups in society
WO 2019232367	FLORIDA APNEA DIAGNOSTICS	Sleep diagnostic system and method
WO 2019231811	DREAMWELL LTD	Monitoring methods and cushioning structures
WO 2019246216	VERILY LIFE SCIENCES LLC	Eye-mountable therapeutic devices, and associated systems and methods
WO 2019170562	KONINKLIJKE PHILIPS NV	Method and apparatus for detecting a fall by a user
WO 2019216062	KONICA MINOLTA INC	Care support system and information provision method
WO 2019224732	UNIV DEGLI STUDI DI SIENA	System for monitoring electro-medical apparatuses installed in the home
WO 2019222833	HEALTHTECH CONNEX INC	Quantifying motor function using beg signals
WO 2019170275	CURALUNA GMBH	System for monitoring the load state of absorbent hygiene articles and for evaluating the measured values obtained in the process
WO 2019214929	FRESENIUS VIAL SAS	Distribution server for patient devices
WO 2019231233	AMOTECH CO LTD	Position tracking device and method for providing low power geofence service
WO 2019187628	NEC CORP	Notification device, notification method, notification system, and computer-readable recording medium
WO 2019216045	KONICA MINOLTA INC	System and system control method
WO 2019216063	KONICA MINOLTA INC	Care support system and information provision method
WO 2019183586	THE ALFRED E MANN FOUNDATION FOR SCIENT RESEARCH	Skin patches for sensing or affecting a body parameter
WO 2019222630	DARTMOUTH COLLEGE	Instrumented resistance exercise device
WO 2019222785	RISTOVSKI SASH	Sleep safe alarm device
WO 2019215597	JANS MARCO	Portable remote signaling device of the position of an injured and/or lost person
WO 2019226057	AL IBRI AMIRA SAID HAMAD	Device for measuring glucose with the features of sound, light and vibration
WO 2019216066	KONICA MINOLTA INC	System and system control method
WO 2019226866	VELIS CHRISTOPHER J P	Sample and data gathering systems and methods for using miniaturized intra-body controllable medical devices
WO 2019172012	PANASONIC IP MAN CO LTD	Estimation system and cognitive function evaluation system
WO 2019172441	SYSTEM 21 INC	Information processing device and information processing system
WO 2019187099	HITACHI LTD	Bodily function independence assistance device and method therefor
WO 2019195400	RABOLT JOHN	Method and device for mitigating a health-related condition
WO 2019206346	IPKA S R O	System for tracking motion of objects
WO 2019212029	FANTASTIC CO LTD	Care receiver watching assistance system
WO 2019214479	ANYCHECK INFORMATION TECH CO LTD	System and method for providing notification to ad patient using living habit estimation model

WO 2019203953	DOSE HEALTH LLC	Automatic pill dispenser and methods for automatic pill dispensing
WO 2019216377	YOROZUYA KIKUHIRO	Portable terminal device, and search system
WO 2019216058	KONICA MINOLTA INC	System and system control method
WO 2019204899	DYNAMIC DISC DESIGNS CORP	Sensitivity metering system for use in patient diagnosis
WO 2019186550	ZOLL MEDICAL ISRAEL LTD	Systems, devices and methods for radio frequency-based physiological monitoring of patients
WO 2019178380	SAFELY YOU INC	System for detecting, recording events in the care and treatment of cognitively persons

[..ver más](#)

OTRAS REFERENCIAS

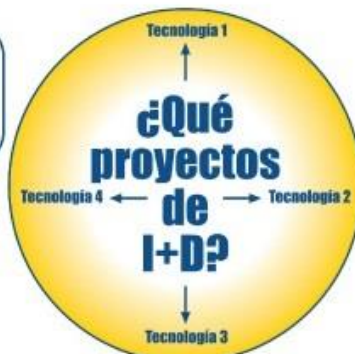
Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
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WO 2019239747	HITACHI AUTOMOTIVE SYSTEMS LTD	Vehicle control device
WO 2019191631	CARRIER CORP	Lens for a visual alarm detector
WO 2019197892	EPTATECH S R L	Elastic electronic device applicable on a fabric
WO 2019236868	MACCUMBER MATHEW W	Devices and methods for detecting vision impairments
WO 2019234670	JAEKEN BART JAN	Virtual reality instrument for the automatic measurement of refraction and aberrations of the eye
WO 2019220331	HORENTEK S R L	Vibro-tactile device for the treatment of hearing disorders
WO 2019215200	SIVANTOS PTE LTD	Method for operating a hearing system, and hearing system
WO 2019219290	FRESENIUS VIAL SAS	Drug library compiler for patient devices
WO 2019219277	FRESENIUS VIAL SAS	Therapy-based database model for generating drug libraries
WO 2019181008	NEC SOLUTION INNOVATORS LTD	Conversation assist device, conversation assist method, and program
WO 2019192519	NINGBO GEELY AUTOMOBILE RES & DEVELOPMENT CO LTD	Vehicle alert device and method
WO 2019208877	LIM SEUNG HYUK	Rehabilitation health care system for disabled person
WO 2019212953	PULSON INC	Systems and methods for coordinating musculoskeletal and cardiovascular or cerebrovascular hemodynamics
WO 2019195788	CAREGIVERSDIRECT A PUBLIC BENEFIT CORP	Patient care system
WO 2019209389	MR INSTR INC	Wearable open and adjustable mri head coil
WO 2019218081	MARION SURGICAL INC	A virtual reality surgical system including a surgical tool assembly with haptic feedback
WO 2019209570	REDAPPLE DIGITAL HEALTH INC	Healthcare provider-patient matching method, system, and apparatus

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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.



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