

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
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WO 2016147167	LAFFAN ROBERT EMMET	A communications system, and a method for communicating a human feeling electronically
WO 2016184466	BAUM RETEC AG	Screen-reading device with display device and image-capture device that can move independently of one another
WO 2016184467	BAUM RETEC AG	Screen-reading device with image-capture- and display devices that can move independently of one another
WO 2016181347	SILENT CIRCLE LLC	A system, device and method for indicating authentication decisions in uniquely identifiable computing devices
WO 2016151255	AURIOL FRAPPE A FROID	Luminous tactile paving slab
WO 2016184464	BAUM RETEC AG	Screen-reading device with displaceable support table
WO 2016161121	SMARTPALATE INT LLC	Systems and methods for the diagnosis and treatment of speech impairment
WO 2016190362	DAINIPPON PRINTING CO LTD	Method of manufacturing tactile information representing body, tactile information representing body, bag and package
WO 2016162822	CONTROLRAD SYSTEMS INC	Devices and methods for monitoring gaze
WO 2016182318	KIM YONGTAE	Mobile rhythm game device and method using stereophonic sound
WO 2016184465	BAUM RETEC AG	Screen-reading device with a live camera and a still camera
WO 2016139707	PANASONIC IP MAN CO LTD	Control device
WO 2016164159	BRAZAS MEGAN	Communication system and method
WO 2016168591	BOSCH GMBH ROBERT	System and method for automated sign language recognition
WO 2016175350	CORETECHNOLOGY INC	Visual learning management system for communication training for multiple-handicapped persons
WO 2016171317	ART AND TECH HOLDINGS	Method and system for providing customized information by using super-directional ultrasound signal, and non-transitory computer-readable recording medium
WO 2016182419	UPROBOTS S DE R L DE C V	Transversely perforated for plate controlling the movement of objects
WO 2016159064	NEC SOLUTION INNOVATORS LTD	Notetaking learning assistance system, notetaking learning assistance device, notetaking learning assistance method, and computer readable recording medium
WO 2016159553	OHFATECH INC	Braille actuator and braille output device using same
WO 2016165024	ANDRADE JAMES	Braille instruction system and method
WO 2016182514	AGENCY SCIENCE TECH & RES	A system and method for displaying a video image
WO 2016172305	FREEDOM SCIENTIFIC INC	Method and system for converting text to speech

[...ver más](#)

AYUDA A LA MOVILIDAD

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

WO 2016187636	TECHNISCHE UNIVERSITÄT WIEN	Arm exoskeleton
WO 2016198286	DEUTSCHES ZENTRUM FÜR LUFT-UND RAUMFAHRT E V	Method and device for determining a desired movement of a limb
WO 2016196784	BATTELLE MEMORIAL INSTITUTE	Non-invasive motor impairment rehabilitation system
WO 2016181173	PETROTOS DIMITRIOS	Motorized standing wheelchair of variable and alternating geometry
WO 2016196797	BATTELLE MEMORIAL INSTITUTE	Systems for neural bridging of the nervous system
WO 2016146960	PHASEX AB	A modular universal joint with harmonised control method for an assistive exoskeleton
WO 2016169848	OTTO BOCK HEALTHCARE PRODUCTS GMBH	Method for controlling a damping modification
WO 2016166652	SCUOLA SUPERIORE S ANNA	Ergonomic exoskeleton system for the upper limb
WO 2016184919	INVENTUS ENG GMBH	Prosthetic or exoskeleton component, prosthesis or exoskeleton, and method
WO 2016169855	OTTO BOCK HEALTHCARE PRODUCTS GMBH	Method for controlling an artificial knee joint
WO 2016164433	KESSLER FOUND INC	System and method for user-controlled exoskeleton gate control
WO 2016169850	OTTO BOCK HEALTHCARE PRODUCTS GMBH	Method for controlling a change of damping in an artificial joint
WO 2016162425	WANDERCRAFT	Exoskeleton including a mechanical ankle link having two pivot axes
WO 2016180074	THE HONG KONG POLYTECHNIC UNIV	Interactive exoskeleton robotic knee system
WO 2016181731	KONICA MINOLTA INC	Fall detecting device, fall detecting method, and device for monitoring person to be monitored
WO 2016182421	AMEZCUA PEREGRINA MIGUEL	Motorised multi-articulated prosthetic hand fully controllable by the user
WO 2016158558	SHARP KK	Walking assistance vehicle and program for control of walking assistance vehicle
WO 2016183484	WORCESTER POLYTECH INST	Variable stiffness devices and methods of use
WO 2016162414	WANDERCRAFT	Exoskeleton including connected shells with passive degrees of mobility
WO 2016180073	THE HONG KONG POLYTECHNIC UNIV	Exoskeleton ankle robot
WO 2016163780	SG MECHATRONICS CO LTD	Joint actuator, and joint structure of leg-supporting robot comprising same
WO 2016166588	INST TECNOLÓGICO Y DE ESTUDIOS SUPERIORES DE MONTERREY	Non-invasive mechatronic device providing joint mobility
WO 2016182324	HYUN DAI HEAVY IND CO LTD	Aid robot for transporting
WO 2016179275	EKSO BIONICS INC	Ensuring operator engagement in an exoskeleton bionic device
WO 2016168463	EKSO BIONICS INC	Methods of exoskeleton communication and control
WO 2016187275	THE REGENTS OF THE UNIV OF CALIFORNIA	Method and apparatus for human arm supporting exoskeleton
WO 2016157187	MAROM DAN	Walker device
WO 2016164395	EKSO BIONICS INC	Exoskeleton cord loop-type actuator

WO 2016160624	OTHER LAB LLC	Lower-leg exoskeleton system and method
WO 2016179562	ORIBS ROBOTICS INC	Convertible telepresence robot
WO 2016149748	TRIFECTA BRACE PTY LTD	A multifunctional brace for rehabilitation and post-operative use in orthopaedic surgery

[...ver más](#)

TELEASISTENCIA SANITARIA

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2016188738	F HOFFMANN-LA ROCHE AG	Point of care testing poct system
WO 2016174662	AGT INT GMBH	Method of monitoring well-being of semi-independent persons and system thereof
WO 2016193879	YEACHAREDDY KAUSHIK	Method and system for providing remote healthcare solution to a user in real-time
WO 2016193995	ABHIJIT MANOHAR GUPTA	A personalized treatment management system and method
WO 2016170448	MARCATO MAURIZIO	Apparatus and method for safeguarding users during use of apparatus having at least a part in motion
WO 2016168724	SYNC-THINK INC	System and method for concussion detection and quantification
WO 2016149072	GROUPCARE TECH LLC	Systems and methods for intelligent event response
WO 2016162899	BAYBIG CORP	Position detection system and position detection method
WO 2016170195	PEIXE SOFTWARE S L	System for monitoring persons under guardianship
WO 2016182156	D2 EMOTION CO LTD	Mobile terminal for detecting abnormal activity and system including same
WO 2016185738	NORITSU PREC CO LTD	Image analysis device, image analysis method, and image analysis program
WO 2016185737	KK TOPCON	Ophthalmic examination support system
WO 2016159347	PARAMOUNT BED KK	State determining device
WO 2016175345	CHO SUNG IL	Button for clothing enabling location identification
WO 2016176812	WANG ZHIQIANG	Mobile terminal-based method for pushing patent information when raising alarm and alarm device
WO 2016141654	ZTE CORP	Positioning method, apparatus and system, and storage medium
WO 2016176810	WANG ZHIQIANG	Fixed base point-based alarm method and alarm device based on fixed base point
WO 2016185080	NEWICON OY	An apparatus and method for arranging medication
WO 2016159065	NEC SOLUTION INNOVATORS LTD	Tap water use detection system, monitoring system using same, tap water use detection method, monitoring method, and computer-readable recording medium
WO 2016183226	VERAN MEDICAL TECH INC	Medical apparatus with translatable imaging device for real-time confirmation of interception of target tissue
WO 2016143641	KONICA MINOLTA INC	Posture detection device and posture detection method
WO 2016152428	KONICA MINOLTA INC	Monitored-person monitoring device and monitored-person monitoring method
WO 2016186711	COMPREHENSIVE TELEMEDICINE	Multipurpose diagnostic examination apparatus and system
WO 2016156779	SAFEKEEPING SOLUTIONS LTD	Occupancy monitoring device
WO 2016168157	ROBERTS JONATHAN CLARK	Methods and system for assessment of peripheral perfusion
WO 2016172469	SCOTT TECH INC	Thermal imaging system
WO 2016176252	KHAN TAJ H	Biosensor canalicular stent
WO 2016161224	MICROSOFT TECHNOLOGY LICENSING LLC	Complex event processor for historic/live/replayed data
WO 2016161119	SMARTCARE CONSULTANTS LLC	System for determining behavioral patterns and deviations from determined behavioral patterns
WO 2016146889	EMFIT OY	Mattress for resting or sleeping of a person
WO 2016144195	FALACINSKI JAKUB	Shower cabin
WO 2016162314	KONINKLIJKE PHILIPS NV	Device, system and method for detecting illness- and/or therapy-related fatigue of a person
WO 2016154262	WELLMETRIS LLC	Smartphone enabled urinalysis device, software, and test platform

[..ver más](#)

OTRAS REFERENCIAS

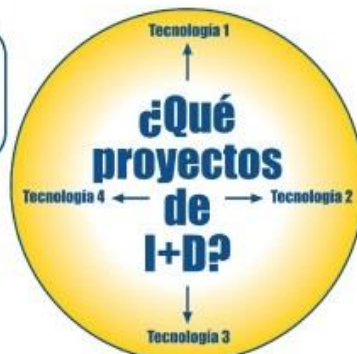
Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
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WO 2016146487	SIVANTOS PTE LTD	Binaural hearing aid system
WO 2016180704	DOLBY INT AB	Dialog enhancement complemented with frequency transposition
WO 2016187130	THE GENERAL HOSPITAL CORP	System and methods for early diagnosis of autism spectrum disorders
WO 2016144173	EXSILENT RES BV	Personal listening device, in particular a hearing aid
WO 2016174065	AUDISENSE GMBH	Hearing prosthesis emitting ultrasonic pulses
WO 2016166290	KONINKLIJKE PHILIPS NV	Optical laser speckle sensor for measuring a blood perfusion parameter
WO 2016191372	PIXIE SCIENT LLC	Indicator panels for incontinence products
WO 2016157314	HITACHI LTD	Computer system and information processing method
WO 2016179815	GENERAL JACK TECH LTD	Portable flashlight
WO 2016182330	HONG INT CORP	Dart game apparatus comprising moving unit
WO 2016150912	SIVANTOS PTE LTD	Method for manufacturing a circuit
WO 2016159100	NAGANO KEIKI CO LTD	Tongue pressure strengthening training device and tongue pressure strengthening training method
WO 2016152847	GEO SYSTEM CO LTD	Urine flow meter
WO 2016170677	SLEEP SYSTEM LABORATORY INC	Sleep stage determination apparatus and sleep stage determination method
WO 2016180095	UNIV SHANGHAI JIAOTONG	Method for detecting, in noninvasive in-vivo manner, skin damage induced by ultraviolet light, and detection device thereof
WO 2016159101	NAGANO KEIKI CO LTD	Tongue pressure measurement device for training and tongue pressure measurement method
WO 2016181932	NIKON-ESSILOR CO LTD	Spectacle lens
WO 2016185441	COCHLEAR LTD	Advanced management of an implantable sound management system
WO 2016168718	MASSACHUSETTS EYE AND EAR INFIRMARY	Prosthetic devices for semicircular canal defects
WO 2016172188	CORNELL UNIV	Machine vision with dimensional data reduction
WO 2016149434	MED-EL ELEKTROMEDIZINISCHE GERAETE GMBH	Fixation of a bone conduction floating mass transducer
WO 2016168627	SCHEER SCOTT	Disposable covers

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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.



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

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