

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: 073-15-018-7

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

[...ver más](#)

## AYUDA A LA MOVILIDAD

### Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
<a href="#">WO 2016187636</a>	TECHNISCHE UNIVERSITÄT WIEN	Arm exoskeleton
<a href="#">WO 2016198286</a>	DEUTSCHES ZENTRUM FÜR LUFT-UND RAUMFAHRT E V	Method and device for determining a desired movement of a limb
<a href="#">WO 2016196784</a>	BATTELLE MEMORIAL INSTITUTE	Non-invasive motor impairment rehabilitation system
<a href="#">WO 2016181173</a>	PETROTOS DIMITRIOS	Motorized standing wheelchair of variable and alternating geometry
<a href="#">WO 2016196797</a>	BATTELLE MEMORIAL INSTITUTE	Systems for neural bridging of the nervous system
<a href="#">WO 2016146960</a>	PHASEX AB	A modular universal joint with harmonised control method for an assistive exoskeleton
<a href="#">WO 2016169848</a>	OTTO BOCK HEALTHCARE PRODUCTS GMBH	Method for controlling a damping modification
<a href="#">WO 2016166652</a>	SCUOLA SUPERIORE S ANNA	Ergonomic exoskeleton system for the upper limb
<a href="#">WO 2016184919</a>	INVENTUS ENG GMBH	Prosthetic or exoskeleton component, prosthesis or exoskeleton, and method
<a href="#">WO 2016169855</a>	OTTO BOCK HEALTHCARE PRODUCTS GMBH	Method for controlling an artificial knee joint
<a href="#">WO 2016164433</a>	KESSLER FOUND INC	System and method for user-controlled exoskeleton gate control
<a href="#">WO 2016169850</a>	OTTO BOCK HEALTHCARE PRODUCTS GMBH	Method for controlling a change of damping in an artificial joint
<a href="#">WO 2016162425</a>	WANDERCRAFT	Exoskeleton including a mechanical ankle link having two pivot axes
<a href="#">WO 2016180074</a>	THE HONG KONG POLYTECHNIC UNIV	Interactive exoskeleton robotic knee system
<a href="#">WO 2016181731</a>	KONICA MINOLTA INC	Fall detecting device, fall detecting method, and device for monitoring person to be monitored
<a href="#">WO 2016182421</a>	AMEZCUA PEREGRINA MIGUEL	Motorised multi-articulated prosthetic hand fully controllable by the user
<a href="#">WO 2016158558</a>	SHARP KK	Walking assistance vehicle and program for control of walking assistance vehicle
<a href="#">WO 2016183484</a>	WORCESTER POLYTECH INST	Variable stiffness devices and methods of use
<a href="#">WO 2016162414</a>	WANDERCRAFT	Exoskeleton including connected shells with passive degrees of mobility
<a href="#">WO 2016180073</a>	THE HONG KONG POLYTECHNIC UNIV	Exoskeleton ankle robot
<a href="#">WO 2016163780</a>	SG MECHATRONICS CO LTD	Joint actuator, and joint structure of leg-supporting robot comprising same
<a href="#">WO 2016166588</a>	INST TECNOLÓGICO Y DE ESTUDIOS SUPERIORES DE MONTERREY	Non-invasive mechatronic device providing joint mobility
<a href="#">WO 2016182324</a>	HYUN DAI HEAVY IND CO LTD	Aid robot for transporting
<a href="#">WO 2016179275</a>	EKSO BIONICS INC	Ensuring operator engagement in an exoskeleton bionic device
<a href="#">WO 2016168463</a>	EKSO BIONICS INC	Methods of exoskeleton communication and control
<a href="#">WO 2016187275</a>	THE REGENTS OF THE UNIV OF CALIFORNIA	Method and apparatus for human arm supporting exoskeleton
<a href="#">WO 2016157187</a>	MAROM DAN	Walker device
<a href="#">WO 2016164395</a>	EKSO BIONICS INC	Exoskeleton cord loop-type actuator

<a href="#">WO 2016160624</a>	OTHER LAB LLC	Lower-leg exoskeleton system and method
<a href="#">WO 2016179562</a>	ORIBS ROBOTICS INC	Convertible telepresence robot
<a href="#">WO 2016149748</a>	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
<a href="#">WO 2016188738</a>	F HOFFMANN-LA ROCHE AG	Point of care testing poct system
<a href="#">WO 2016174662</a>	AGT INT GMBH	Method of monitoring well-being of semi-independent persons and system thereof
<a href="#">WO 2016193879</a>	YEACHAREDDY KAUSHIK	Method and system for providing remote healthcare solution to a user in real-time
<a href="#">WO 2016193995</a>	ABHIJIT MANOHAR GUPTA	A personalized treatment management system and method
<a href="#">WO 2016170448</a>	MARCATO MAURIZIO	Apparatus and method for safeguarding users during use of apparatus having at least a part in motion
<a href="#">WO 2016168724</a>	SYNC-THINK INC	System and method for concussion detection and quantification
<a href="#">WO 2016149072</a>	GROUPCARE TECH LLC	Systems and methods for intelligent event response
<a href="#">WO 2016162899</a>	BAYBIG CORP	Position detection system and position detection method
<a href="#">WO 2016170195</a>	PEIXE SOFTWARE S L	System for monitoring persons under guardianship
<a href="#">WO 2016182156</a>	D2 EMOTION CO LTD	Mobile terminal for detecting abnormal activity and system including same
<a href="#">WO 2016185738</a>	NORITSU PREC CO LTD	Image analysis device, image analysis method, and image analysis program
<a href="#">WO 2016185737</a>	KK TOPCON	Ophthalmic examination support system
<a href="#">WO 2016159347</a>	PARAMOUNT BED KK	State determining device
<a href="#">WO 2016175345</a>	CHO SUNG IL	Button for clothing enabling location identification
<a href="#">WO 2016176812</a>	WANG ZHIQIANG	Mobile terminal-based method for pushing patent information when raising alarm and alarm device
<a href="#">WO 2016141654</a>	ZTE CORP	Positioning method, apparatus and system, and storage medium
<a href="#">WO 2016176810</a>	WANG ZHIQIANG	Fixed base point-based alarm method and alarm device based on fixed base point
<a href="#">WO 2016185080</a>	NEWICON OY	An apparatus and method for arranging medication
<a href="#">WO 2016159065</a>	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
<a href="#">WO 2016183226</a>	VERAN MEDICAL TECH INC	Medical apparatus with translatable imaging device for real-time confirmation of interception of target tissue
<a href="#">WO 2016143641</a>	KONICA MINOLTA INC	Posture detection device and posture detection method
<a href="#">WO 2016152428</a>	KONICA MINOLTA INC	Monitored-person monitoring device and monitored-person monitoring method
<a href="#">WO 2016186711</a>	COMPREHENSIVE TELEMEDICINE	Multipurpose diagnostic examination apparatus and system
<a href="#">WO 2016156779</a>	SAFEKEEPING SOLUTIONS LTD	Occupancy monitoring device
<a href="#">WO 2016168157</a>	ROBERTS JONATHAN CLARK	Methods and system for assessment of peripheral perfusion
<a href="#">WO 2016172469</a>	SCOTT TECH INC	Thermal imaging system
<a href="#">WO 2016176252</a>	KHAN TAJ H	Biosensor canalicular stent
<a href="#">WO 2016161224</a>	MICROSOFT TECHNOLOGY LICENSING LLC	Complex event processor for historic/live/replayed data
<a href="#">WO 2016161119</a>	SMARTCARE CONSULTANTS LLC	System for determining behavioral patterns and deviations from determined behavioral patterns
<a href="#">WO 2016146889</a>	EMFIT OY	Mattress for resting or sleeping of a person
<a href="#">WO 2016144195</a>	FALACINSKI JAKUB	Shower cabin
<a href="#">WO 2016162314</a>	KONINKLIJKE PHILIPS NV	Device, system and method for detecting illness- and/or therapy-related fatigue of a person
<a href="#">WO 2016154262</a>	WELLMETRIS LLC	Smartphone enabled urinalysis device, software, and test platform

[..ver más](#)

## OTRAS REFERENCIAS

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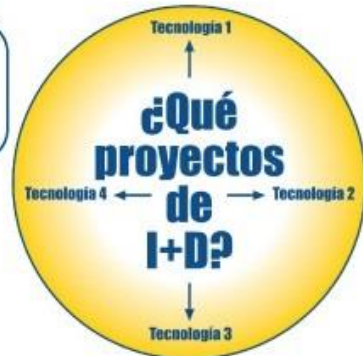
<a href="#">WO 2016146487</a>	SIVANTOS PTE LTD	Binaural hearing aid system
<a href="#">WO 2016180704</a>	DOLBY INT AB	Dialog enhancement complemented with frequency transposition
<a href="#">WO 2016187130</a>	THE GENERAL HOSPITAL CORP	System and methods for early diagnosis of autism spectrum disorders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



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