

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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<a href="#">WO 2019053365 A1</a>	CLARI JEAN FRANCOIS	Accessing an audio book associated with a paper book
<a href="#">WO 2019051295 A1</a>	FIPAK RES AND DEVELOPMENT COMPANY	Using an optical or electronic gateway tag to automatically wirelessly access the control system of a machine using a web-based protocol
<a href="#">WO 2019035102 A1</a>	THE GENIUS NOTEBOOK LTD	Notebook for educationally challenged students
<a href="#">WO 2019030418 A1</a>	VISION TACTIL PORTABLE S L	Touch excitation device based on dielectric elastomers and production method thereof
<a href="#">WO 2018229401 A1</a>	KONICA MINOLTA BUSINESS SOLUTIONS FRANCE	System and method for assistance and voice control of an image processing device
<a href="#">WO 2018236522 A1</a>	MICROSOFT TECHNOLOGY LICENSING LLC	Transforming spoken thoughts to a visual representation
<a href="#">WO 2019012364 A1</a>	SONY CORP	User placement of closed captioning
<a href="#">WO 2019013888 A1</a>	MICROSOFT TECHNOLOGY LICENSING LLC	Facilitating interaction with a computing device based on force of touch
<a href="#">WO 2019022645 A2</a>	BELOMOEV FEDOR VALENTINOVICH	Device for universal access to the functional capabilities of a sensor mobile telephone for the visually impaired
<a href="#">WO 2019043350 A1</a>	MOHAMMED AL JEFAIRI	A system and method for teaching sign language
<a href="#">WO 2019010540 A1</a>	THE BIONICS INST OF AUSTRALIA	A hearing assessment system and method
<a href="#">WO 2019012358 A1</a>	SONY CORP	Sensing viewer direction of viewing to invoke accessibility menu in audio video device
<a href="#">WO 2019014849 A1</a>	CYNTEK PTE LID	Method for collecting and processing artificial eye image
<a href="#">WO 2018236805 A1</a>	FREEDOM SCIENTIFIC INC	Impact resistant modular braille display device
<a href="#">WO 2018230986 A1</a>	DOT INC	Information output apparatus and method
<a href="#">WO 2019014848 A1</a>	CYNTEK PTE LID	System for use in image acquisition and processing by artificial eye
<a href="#">WO 2018223162 A2</a>	CARETEC INT GMBH	Method for inputting and outputting a text consisting of characters
<a href="#">WO 2019021357 A1</a>	E3 CO LTD	Voice message communication device

[...ver más](#)

## AYUDA A LA MOVILIDAD

**Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO**

<a href="#">WO 2019048862 A1</a>	STANNAH STAIRLIFTS LTD	Improvements in or relating to stairlifts
<a href="#">WO 2019045184 A1</a>	COMFORT CO LTD	Standing assist chair and wheelchair
<a href="#">WO 2019042514 A1</a>	MULTI TOWER COMPANY IVS	Two-point, four points and multiple points lifting patient lifting robots
<a href="#">WO 2019046488 A1</a>	ROAM ROBOTICS INC	Semi-supervised intent recognition system and method
<a href="#">WO 2019046489 A1</a>	ROAM ROBOTICS INC	Exoskeleton fit evaluation system and method
<a href="#">WO 2019044980 A1</a>	UNIV TOKYO	Walking support device
<a href="#">WO 2019043698 A1</a>	MAGNOTRICKS LTD	Magnetic toy
<a href="#">WO 2019046408 A1</a>	LOCKHEED CORP	Automatic sensor selection
<a href="#">WO 2019025266 A1</a>	SAFRAN ELECTRONICS & DEFENSE	Method for assisting at least one movement of a user and corresponding device
<a href="#">WO 2019034174 A1</a>	JIANGSU HENGAI MEDICAL EQUIPMENT CO LTD	Walk booster for disabled person confined to bed
<a href="#">WO 2019039591 A1</a>	OTON GLASS INC	Read-out system and read-out method
<a href="#">WO 2019002772 A1</a>	WANDERCRAFT	Method for moving an exoskeleton
<a href="#">WO 2019012429 A1</a>	SCUOLA SUPERIORE DI STUDI UNIV E DI PERFEZIONAMENTO SANTANNA	Kinematical chain for assisting the motion of a spherical joint
<a href="#">WO 2018236225 A1</a>	OPUM TECH LIMITED	Orthosis or exoskeleton system with modular elements
<a href="#">WO 2018236279 A1</a>	TENDO AB	Device for moving an arm and a method of operating the device
<a href="#">WO 2019029006 A1</a>	LIMOSS SHENZHEN CO LTD	Control system for lifting chair
<a href="#">WO 2019033001 A1</a>	UNIV CALIFORNIA	Dexterous hand exoskeleton
<a href="#">WO 2019030423 A2</a>	BIO SENSING SOLUTIONS S L	Device for sensing force and movement in an action performed by a subject, and system and method for correcting the force and the movement of the action
<a href="#">WO 2019027037 A1</a>	UNIV OSAKA	Body lifting system and body lifting method
<a href="#">WO 2019017949 A1</a>	UNIV CALIFORNIA	Trunk supporting exoskeleton and method of use
<a href="#">WO 2018227910 A1</a>	BOE TECHNOLOGY GROUP CO LTD	Guide stick for blind and guide method for blind
<a href="#">WO 2018235214 A1</a>	SAITO INVENTIVE CORP	Manipulator and robot
<a href="#">WO 2019018804 A1</a>	FOX HEAD INC	Protective footwear
<a href="#">WO 2019031523 A1</a>	SUMITOMO RIKO CO LTD	Center-of-gravity movement display apparatus and method for displaying movement of center of gravity in center-of-gravity movement display apparatus
<a href="#">WO 2019004863 A1</a>	OBSHCHESTVO S OGRANICHENNOY OTVETSTVENNOSTY U EXOATLET	Method of assessing degree of rehabilitation using an active exoskeleton for patients with disorders of the musculoskeletal system

[...ver más](#)

## TELEASISTENCIA SANITARIA

### Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
<a href="#">WO 2019046129 A1</a>	MG THERAPIES INC	Handheld thermal therapy device
<a href="#">WO 2019052795 A1</a>	FRESENIUS VIAL SAS	System and method for providing homecare to a patient
<a href="#">WO 2019053610 A1</a>	FEDELI FRANCESCA	Network distributed system for people pairing and execution of training or rehabilitation session
<a href="#">WO 2019049530 A1</a>	KONICA MINOLTA INC	Data processing device, care support system and data processing method
<a href="#">WO 2019048849 A1</a>	AMBICARE HEALTH LTD	Self-adhesive phototherapy treatment device
<a href="#">WO 2018236633 A1</a>	QUALCOMM INC	NOTIFICATION SYSTEM FOR MOBILE DEVICE IN INTERNET-OF-THINGS (iot) DOMAIN
<a href="#">WO 2019002604 A1</a>	KONINKLIJKE PHILIPS NV	Method and apparatus for determining sleep statistics
<a href="#">WO 2019005210 A1</a>	GETHELP INC	Patient bed inventory hardware and software system and method
<a href="#">WO 2019030338 A1</a>	JOANNEUM RES FORSCHUNGSGESELLSCHAFT MBH	Accurate sensing of physiological substance in blood
<a href="#">WO 2018231477 A1</a>	MICROSOFT TECHNOLOGY LICENSING LLC	Direct frequency modulating radio-frequency sensors
<a href="#">WO 2019011446 A1</a>	GCE HOLDING AB	Electronic gauge
<a href="#">WO 2019025427 A1</a>	REDWAVE MEDICAL GMBH	Method for operating a blood pressure measuring device and arrangement for measuring the pressure in a blood vessel
<a href="#">WO 2018227282 A1</a>	SENSORY TECH OF CANADA INC	A system for generating a record of community-based patient care
<a href="#">WO 2019034244 A1</a>	ARCELIK AS	Image display device provided with sound prioritization function
<a href="#">WO 2019040849 A1</a>	INFRASCAN INC	Optical probe for oximetry measurements
<a href="#">WO 2019040770 A1</a>	NIGHTINGALE CHARLES HOOSHMAND	Systems and methods for maintaining a supply of a health-related item
<a href="#">WO 2019039527 A1</a>	KOWA CO	Individual measurement data correction system and correction data creation method
<a href="#">WO 2019042957 A1</a>	BOSCH GMBH ROBERT	Health monitoring system and method thereof
<a href="#">WO 2018218319 A1</a>	MAYMONE DE MELO SERGIO	System for home automation and control of computers, smartphones and tablets for persons with physical impairment and those with reduced mobility
<a href="#">WO 2019030124 A1</a>	KONINKLIJKE PHILIPS NV	Device, system and method for determining a physiological parameter of a subject
<a href="#">WO 2018236865 A1</a>	ADDINEX TECH INC	Prescription drug abuse prevention system
<a href="#">WO 2019008975 A1</a>	PANASONIC IP MAN CO LTD	Information providing method, information processing system, information terminal, and information processing method
<a href="#">WO 2019008982 A1</a>	PANASONIC IP MAN CO LTD	Information provision method, information processing system, information terminal, and information processing method
<a href="#">WO 2019027491 A1</a>	LAW OFFICE OF JERRY JOSEPH PLC	Respiration monitor system with sensory alert
<a href="#">WO 2019036596 A1</a>	THE CHILDRENS MERCY HOSPITAL	Non-invasive colon motility monitoring system
<a href="#">WO 2019008972 A1</a>	PANASONIC IP MAN CO LTD	Information providing method, information processing system, information terminal, and information processing method
<a href="#">WO 2018225960 A1</a>	CRADERS CO LTD	Absorption product provided with terminal unit
<a href="#">WO 2018235628 A1</a>	OMRON TATEISI ELECTRONICS CO	Monitoring assistance system, control method therefor, and program
<a href="#">WO 2018235279 A1</a>	NEC CORP	Information processing device, control method, and program
<a href="#">WO 2019013257 A1</a>	OMRON TATEISI ELECTRONICS CO	Monitoring assistance system and method for controlling same, and program
<a href="#">WO 2019021742 A1</a>	KONICA MINOLTA INC	Care support system and information reporting control method
<a href="#">WO 2019009377 A1</a>	OMRON TATEISI ELECTRONICS CO	Watching support system and control method thereof
<a href="#">WO 2019013104 A1</a>	OMRON TATEISI ELECTRONICS CO	Monitoring assistance system and control method thereof
<a href="#">WO 2019013105 A1</a>	OMRON TATEISI ELECTRONICS CO	Monitoring assistance system and control method thereof
<a href="#">WO 2019028527 A1</a>	OTOHUB S R L	Hearing evaluation system

<a href="#">WO 2019003950 A1</a>	SONY SEMICONDUCTOR SOLUTIONS CORP	Wireless terminal, information processing device, information processing method, and program
<a href="#">WO 2019008973 A1</a>	PANASONIC IP MAN CO LTD	Information provision method, information processing system, information terminal, and information processing method
<a href="#">WO 2019017708 A1</a>	PARK SUHJUN	Passage device and medication dose management device
<a href="#">WO 2019028220 A2</a>	EPISODE SOLUTIONS LLC	Tracking program interface
<a href="#">WO 2019032785 A1</a>	NUANCE COMMUNICATIONS INC	Automated clinical documentation system and method

[..ver más](#)

## OTRAS REFERENCIAS

**Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO**

<a href="#">WO 2019040976 A1</a>	KILROY JOHN HAROLD	Cleaning quality assurance system
<a href="#">WO 2019055504 A1</a>	OCULOGICA INC	Eye tracking system
<a href="#">WO 2019020202 A1</a>	ABBOTT PRODUCTS OPERATIONS AG	A package for medicines
<a href="#">WO 2018229407 A1</a>	MORANDI GUILLAUME	Automatic toilet door and associated locking/unlocking method
<a href="#">WO 2019007842 A1</a>	ROCHE DIABETES CARE GMBH	Method and electronics unit for detecting in-vivo properties of a biosensor
<a href="#">WO 2018218331 A1</a>	RAZ DESIGN INC	Bathing access device for disabled persons and method of using the same
<a href="#">WO 2019023652 A1</a>	GALVANI BIOELECTRONICS LTD	Treatment of eye disorders
<a href="#">WO 2019008690 A1</a>	OFFICE SUNNY CO LTD	Character sheet and character sheet set
<a href="#">WO 2019030414 A2</a>	SKYLARK INDICATORS LTD	Hygiene compliance method, use and system
<a href="#">WO 2019009694 A1</a>	GARRIDO SOTO VICTOR HUGO	Mosaic tiles, the visual values of which can be identified by touch, production process and method for the application thereof in visual art works produced by the blind
<a href="#">WO 2019023640 A1</a>	GALVANI BIOELECTRONICS LTD	Treatment of eye disorders
<a href="#">WO 2019013457 A1</a>	SAMSUNG LIFE PUBLIC WELFARE FOUNDATION	User customized hand support
<a href="#">WO 2019016613 A2</a>	3NT MEDICAL LTD	Ear visualization system
<a href="#">WO 2019025950 A2</a>	ETHICON LLC	Surgical system bailo



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