

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 2019112398	AIRCODE CO LTD	Method and system for providing sign language broadcast service using companion screen service
WO 2019109193	UNIV PONTIFICIA CATOLICA CHILE	Multisensory stimulation device that allows a haptic drawing to be produced
WO 2019112398	HARMONICLINK LLC	Intention communicating device and intention communicating method
WO 2019109193	IBM	Authenticating a payment card
WO 2019112398	OXSIGHT LTD	Method of and system for enhancing an image
WO 2019109193	THE ROYAL NAT THEATRE	Caption delivery system
WO 2019112398	ERICSSON TELEFON AB L M	Haptic device and method thereof
WO 2019109193	TELEPATHY JAPAN INC	Color vision support device
WO 2019112398	IMPERIAL INNOVATIONS LTD	Apparatus and method for providing tactile stimulus
WO 2019109193	NICAND PATRICK	Gesture-based control system for actuators
WO 2019112398	SHISEIDO CO LTD	Client device, server, and program
WO 2019109193	SAS JOYEUSE	Method for controlling a portable object and portable object controlled by such a method
WO 2019112398	JVC KENWOOD CORP	Information input device and information input method
WO 2019109193	ZTE CORP	Distributed vibration triggering method, device, and auxiliary reading apparatus
WO 2019112398	BAUDISCH PATRICK	A haptic device that allows blind users to interact in real-time in virtual worlds
WO 2019109193	SIGNALL TECH ZRT	Computer vision based sign language interpreter
WO 2019112398	UNIV MIAMI	Digital therapeutic corrective spectacles
WO 2019109193	UNIV DE LOS LAGOS	Device for assistance with learning, communication and control of artefacts and other devices
WO 2019112398	WELLEN ALEXANDER	Digital coin timepiece for tactilely determining elapsed time

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AYUDA A LA MOVILIDAD

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2019102052	GUTIERREZ GONZALEZ NOEL	Motorised assistance system
WO 2019103538	REPUBLIC OF KOREA NAT REHABILITATION CENTER	Wearable hand robot
WO 2019116093	BIONIC YANTRA PRIVATE LTD	Apparatus and system for limb rehabilitation
WO 2019108655	SEISMIC HOLDINGS INC	Exosuit systems and methods
WO 2019102447	HANKOOK MIRAE TECH CO LTD	Arm device for wearable robot
WO 2019108980	AIRA TECH CORP	Interactive smart glasses for diverse environments
WO 2019105756	COMMISSARIAT ENERGIE ATOMIQUE	Lower limb of an exoskeleton
WO 2019057797	COMMISSARIAT ENERGIE ATOMIQUE	Lower limb of an exoskeleton with low power consumption
WO 2019063132	RTB GMBH & CO KG	Device for supporting the mobility of visually impaired people in road traffic
WO 2019100072	UNIV CALIFORNIA	An exoskeleton support mechanism for a medical exoskeleton
WO 2019081851	SAFRAN ELECTRONICS & DEFENSE	Exoskeleton structure adapted to the shoulder
WO 2019110392	IBM	Navigation with footwear using microfluidics
WO 2019103901	MICROSOFT TECHNOLOGY LICENSING LLC	Apparatus for use in a virtual reality system
WO 2019060936	TEC INNOVATION GMBH	Method and device for detecting an obstacle-free region
WO 2019094961	UNIV CALIFORNIA	Fall prevention apparatus
WO 2019099704	THE FLORIDA STATE UNIV RESEARCH FOUNDATION INC	Diagnostic and therapeutic splints
WO 2019067835	OSSUR ICELAND EHF	Body interface
WO 2019095062	AMICO MOBILITY SOLUTIONS CORP	Portable patient lift system
WO 2019092088	UNIV STUTTGART	Exoskeleton system, control device and method
WO 2019092559	ECOLE POLYTECHNIQUE FED DE LAUSANNE EPFL	Hand exoskeleton device
WO 2019084448	RADIAL MEDICAL INC	Adaptive compression therapy systems and methods
WO 2019060791	UNIV NORTH CAROLINA STATE	Hip exoskeleton
WO 2019065860	KURARAY CO	Artificial muscle
WO 2019069069	UNIV STRATHCLYDE	Apparatus for the rehabilitation, assistance and/or augmentation of arm strength in a user
WO 2019073407	SCUOLA SUPERIORE DI STUDI UNIV E DI PERFEZIONAMENTO SANTANNA	Adaptive control of a wearable robot such as an orthosis or a prosthesis
WO 2019072855	MAST JONAS	Device for supporting movements and lifting movements of the human body
WO 2019087186	SCHENKER ERAN	Systems and methods for detecting and monitoring hazardous obstacles
WO 2019082199	INDIAN INSTITUTE OF TECH DELHI	Exoskeleton device for upper limb rehabilitation
WO 2019068095	UNIV CALIFORNIA	Full body haptic exoskeleton device
WO 2019072444	EXOIQ GMBH	System for assisting muscle strength

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TELEASISTENCIA SANITARIA

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2019102433	KATZ ERAN	System and method for personalized dispensing of mini-tablets
WO 2019113332	PRAESIDIUM INC	Home occupant detection and monitoring system
WO 2019112664	ACTUAL HEALTHCARE SOLUTIONS	Medical imaging and patient health information exchange platform
WO 2019118315	STRANDSMART INC	System, method and apparatus for cancer detection
WO 2019106883	TERUMO CORP	Assist system, assist method, and assist program
WO 2019053719	EARLYSENSE LTD	Apparatus and methods for monitoring a subject
WO 2019055545	TUPELOLIFE SERVICES LLC	Automated and secure methods for dispensing medication
WO 2019076937	KONINKLIJKE PHILIPS NV	Wrist-worn grip measurement device
WO 2019063401	KONINKLIJKE PHILIPS NV	A computer-implemented method of monitoring a person and an apparatus for monitoring a person
WO 2019072380	CONNIDO LTD	Monitor and system for monitoring
WO 2019086363	KONINKLIJKE PHILIPS NV	Distance measurement devices, systems and methods
WO 2019093034	KONICA MINOLTA INC	Monitoring system, program for monitoring system, and monitoring method
WO 2019064299	BEN OREN ILAN	Cognitive and physiological monitoring and analysis for correlation for management of cognitive impairment related conditions
WO 2019099504	INTUITIVE SURGICAL OPERATIONS	Master control device with multi-finger grip and methods therefor
WO 2019063706	MOTOGNOSIS UG HAFTUNGSBESCHRA ENKT	Device for the determination and analysis of the motor skill and the oculomotor skill of a person
WO 2019060947	CLEANSPACE IP PTY LTD	Portable personal respirator and use thereof
WO 2019066502	SAMSUNG ELECTRONICS CO LTD	Method and device for detecting dangerous situation
WO 2019094235	ENDOLUXE INC	System and methods for endoscopic imaging
WO 2019067821	VITAL CONNECT INC	Sensor calibration considering subject-dependent variables and/or body positions
WO 2019075381	J BRASCH CO LLC	Assistive technology for operating nursing homes and other health care facilities
WO 2019092063	CENTRE NAT RECH SCIENT	Haptic feedback device
WO 2019073963	HERBIO CO LTD	Navel temperature measurement device
WO 2019087563	NEC SOLUTION INNOVATORS LTD	Walking vibration analysis device, walking vibration analysis method, and computer-readable recording medium
WO 2019088857	MEDICAL SOLUTION SP Z O O	A method and a system for continuous monitoring of safety and basic life functions of patients
WO 2019089609	EDWARDS LIFESCIENCES CORP	Non-invasive wearable heart valve monitor

WO 2019079489	BENEUFIT INC	Measuring body movement in movement disorder disease
WO 2019087671	FUJIFILM CORP	Information providing server, information providing method, and information providing system
WO 2019070651	TELLUS YOU CARE INC	Vital signs with non-contact activity sensing network for elderly care
WO 2019083222	KIM HONG RAE	Device for examining degree of scoliosis
WO 2019066743	T C ISTANBUL AYDIN UENIVERSITESI	A toilet/urinal assembly showing dehydration
WO 2019058590	MITSUBISHI ELECTRIC CORP	Monitoring system, monitoring method, refrigerator, and communication terminal
WO 2019060250	UNIV JEFFERSON	Pressure ulcer prevention tool
WO 2019060279	THE RES INSTITUTE AT NATIONWIDE CHILDRENS HOSPITAL	Method and apparatus for malarial-neurologic-injury-mechanism diagnosis

[..ver más](#)

OTRAS REFERENCIAS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
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WO 2019103779	A SHEPARDS PROT LLC	Improved portable fire extinguisher adapted for persons with disabilities
WO 2019106495	REHABMAKER CORP	Simulator system and method for exercising lower limbs of a user seated on a wheelchair or like vehicular system
WO 2019103504	BLUEREO INC	Oral cleaner
WO 2019098866	ADEL ABDULLAH ABD ABDULLAH	Genipplate
WO 2019111408	mitsubishi electric corp	Elevator control device and elevator control method
WO 2019063709	GN HEARING AS	Hearing apparatus and related methods for evaluation of speech exposure
WO 2019096781	DRAEGERWERK AG & CO KGAA	Communication systems, breathing mask and helmet
WO 2019097384	UNIV DEGLI STUDI DI TORINO	Method and system for detecting voluntary binary responses by analyzing the pupil diameter of a subject
WO 2019091851	KONINKLIJKE PHILIPS NV	Blood pressure measurement device
WO 2019078396	DONG A UNIV RESEARCH FOUNDATION FOR INDUSTRY ACADEMY COOPERATION	Device for screening senescence
WO 2019086130	ROBOTICS CARE AB	Bathing construction
WO 2019078039	NEC CORP	Nurse operation assistance terminal, nurse operation assistance system, nurse operation assistance method, and nurse operation assistance program recording medium
WO 2019072018	ZHOU XING	Device for viewable teeth-cleaning and polishing
WO 2019092697	NOTAL VISION LTD	Retinal imaging device and related methods
WO 2019058330	COCHLEAR LTD	Trans middle ear-inner ear fluid flow implementations
WO 2019054697	JUNG HEE WON	Aging measuring instrument based on walking speed

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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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