

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
WO 2021004892 A1	INVENTIO AG	Touch-sensitive lift operation device for direction of travel calls
WO 2021011064 A1	MICROSOFT TECHNOLOGY LICENSING LLC	Reading order system for improving accessibility of electronic content
WO 2021030457 A1	STARKEY LABS INC	Interchangeable hearing device transducer module storing transducer calibration information
WO 2020263672 A1	RAITONSA DYNAMICS LLC	Assisted expressions
WO 2021045308 A1	ATSOFT CO LTD	Device and method for managing electronic document, such as pdf, supporting multiple modes
WO 2020261805 A1	SONY CORP	Information processing device, information processing method, and program
WO 2020256026 A1	MAZDA MOTOR	Driving assistance device
WO 2021052725 A1	DEUTSCH ZENTR LUFT & RAUMFAHRT	Monitor system for a human or animal eye, and method for operating same
WO 2021014189 A1	DALILI OUJAN	Two-way translator for deaf people
WO 2021019342 A1	IBM	Synchronized sound generation from videos
WO 2021047763 A1	ERICSSON TELEFON AB L M	Transmission of a representation of a speech signal
WO 2021024138 A1	UNIV KING ABDULLAH SCI & TECH	Controlling devices using facial movements
WO 2021023667 A1	FRAUNHOFER GES FORSCHUNG	System and method for assisting selective hearing
WO 2021033226 A1	SOUND FUN CORP	Speaker unit and speaker curved diaphragm
WO 2021024029 A1	KUKREJA ANI DAVE	Method and system for intelligent and adaptive indoor navigation for users with single or multiple disabilities
WO 2020261296 A2	DAS SUPORNO	Mobile phone based hearing loss correction system

[...ver más](#)

AYUDA A LA MOVILIDAD

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

WO 2021010857 A1	OBSHCHESTVO S OGRANICHENNOY OTVETSTVENNOSTY U EXOATLET	Method for preventing lower limb injury in exoskeleton users and device for the implementation thereof
WO 2021038433 A1	BOCCATO VANNI	Device with driven wheels having variable inclination
WO 2020261167 A1	SCUOLA SUPERIORE DI STUDI UNIV E DI PERFEZIONAMENTO SANTANNA	Apparatus capable of actuating a distal joint and transferring the constraining reactions in an underactuated shoulder exoskeleton
WO 2021030086 A1	PARKER HANNIFIN CORP	Two stage actuator for powered mobility assistance devices with electrical isolation
WO 2020264286 A1	BATTELLE MEMORIAL INSTITUTE	Control of functional electrical stimulation using motor unit action potentials
WO 2021002536 A1	KOREA LABOR WELFARE CORP CO LTD	Hybrid-type artificial limb device and control method therefor
WO 2021005352 A1	STANNAH STAIRLIFTS LTD	Improvements in or relating to stairlifts
WO 2020263209 A1	BURSOY GOKHAN	Wearable strength-supporting system for upper limbs
WO 2021007605 A1	AIT AUSTRIAN INSTITUTE TECH GMBH	Method for detecting the intensity and/or the extent of body movements of a person
WO 2021010821 A1	YUMEN BIONICS B V	Exoskeleton for supporting a user's arm
WO 2020256663 A1	UNIV OZYEGIN	A wearable lower extremity exoskeleton
WO 2021008948 A2	EXOIQ GMBH	Exoskeleton having a pneumatic actuator
WO 2021032971 A1	MECHATECH LTD	Capstan joint
WO 2021053491 A1	SANAEI ALIREZA	A lifting, mobility, and rehabilitation apparatus for disabled patients
WO 2020250092 A1	PANDHORA SRL	Infrared ray equipment for robotic rehabilitation on a treadmill, having flexible pelvic attachment
WO 2021014938 A1	PANASONIC IP MAN CO LTD	Walking ability evaluation device, walking ability evaluation system, walking ability evaluation method, program, and cognitive function evaluation device
WO 2021014668 A1	YASKAWA ELECTRIC CORP	Finger exercise device
WO 2020257579 A1	UNIV ILLINOIS	Joint movement therapy and assistive device system and method
WO 2021049196 A1	PANASONIC IP MAN CO LTD	Factor estimation system and factor estimation method
WO 2021004680 A1	VONNEMANN ANNA	Portable device and method for mobilizing a person suffering from a neurological gait dysfunction as a result of impaired proprioception, and carrying aid for such a device
WO 2021005626 A1	INDIAN INSTITUTE TECH DELHI	System for rehabilitation of a limb of a patient
WO 2021015629 A1	ADAPTABIKE LTD	A cycle
WO 2021038481 A1	INAIL ISTITUTO NAZ PER LASSICURAZIONE CONTRO GLI INFORTUNI SUL LAVORO	Modular vertebral elements for flexible exoskeletons
WO 2021043746 A1	INST NAT SANTE RECH MED	Tracked vehicle for the transportation of reduced mobility persons
WO 2021046423 A1	UNIV MIAMI	Quantification of symmetry and repeatability in limb motion for treatment of abnormal motion patterns

WO 2021016713 A1	BRASH PRODUCT DEV INC	Helmet support exoskeleton (hse) and harness therefor
WO 2021021856 A1	BRAVE VIRTUAL WORLDS LLC	Full or partial body physical feedback system and wearable exoskeleton
WO 2021003441 A1	ENHANCE TECH LLC	Integrated fall-protection harnesses and exoskeletons and methods for use
WO 2021048656 A1	UAB CHRONUS	Wearable interface device for hands- free control of power-driven vehicle
WO 2021046482 A1	FOUCAULT ANDRE	Kinoped lower extremity performance improvement, injury prevention, and rehabilitation system

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TELEASISTENCIA SANITARIA

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

WO 2020260981 A1	TRE ESSE PROGETTAZIONE BIOMEDICA S R L	Device for venous-pressure sensing
WO 2021011203 A1	MEDTRONIC INC	Antenna for implantable medical devices
WO 2021004608 A1	ARES TRADING SA	Home stock management system
WO 2021014750 A1	KONICA MINOLTA INC	Care management method, program, care management device, and care management system
WO 2020255406 A1	NIPPON TELEGRAPH & TELEPHONE	Navigation system, navigation method, and program
WO 2021014555 A1	NIPPON TELEGRAPH & TELEPHONE	Rehabilitation education device, system, and method
WO 2021037427 A1	BIOTRONIK SE & CO KG	System and method for predicting heart failure hospitalization
WO 2020261915 A1	CHIBA SEIKI	Detection device and detection system
WO 2021014718 A1	LIXIL CORP	Information providing device and information providing program
WO 2020260107 A1	KONINKLIJKE PHILIPS NV	System and method for correcting a sweat analyte measurement
WO 2021014717 A1	MAXELL LTD	Detection device and detection method
WO 2020263908 A1	CITRIX SYSTEMS INC	Unified accessibility settings for intelligent workspace platforms
WO 2020256894 A1	ADVANCED NEUROMODULATION SYSTEMS INC	System, method, and architecture for facilitating remote patient care
WO 2021021200 A1	VERB SURGICAL INC	Robotic arm having an extendable prismatic link
WO 2021045616 A1	UNIV EINDHOVEN TECH	A computer-implemented method and an apparatus for determining body positions and/or sleep stages of a person during sleep.
WO 2021019027 A1	UNIV GRENOBLE ALPES	Device for determining a piece of information relating to a cardiac decompensation state
WO 2021020976 A1	UNIV PERUANA CAYETANO HEREDIA	Smart electronic pillbox for monitoring pill consumption
WO 2021022199 A1	RECIPROCAL LABS CORP D/B/A PROPELLER HEALTH	System and method for monitoring energy usage to analyze patient health
WO 2021033597 A1	KONICA MINOLTA INC	Image processing system, image processing program, and image processing method
WO 2021028930 A2	FRESHCHANGE LTD	Infection prevention and hygienic monitoring system and method
WO 2021041847 A1	UNIV JOHNS HOPKINS	Facilitating a bone conduction otoacoustic emission test
WO 2021033569 A1	NIPPON TELEGRAPH & TELEPHONE	Rehabilitation assistance system, rehabilitation assistance method, and rehabilitation assistance program
WO 2021039443 A1	OTTA INC	Location identification system and location identification method
WO 2021022145 A1	SIRIUS SIGNAL LLC	Visual distress signal device
WO 2021038471 A2	NEWPACE LTD	Automated wearable belt cardiac defibrillator
WO 2021046127 A1	CAREFUSION 303 INC	Systems and methods for dispensing medications based on proximity to an electronic medication storage cabinet
WO 2021040020 A1	TOTO LTD	Defecation recording system, defecation recording method, and defecation recording program
WO 2020257591 A1	THINK SURGICAL INC	Trial instruments for ligature reconstruction
WO 2021033570 A1	NIPPON TELEGRAPH & TELEPHONE	Rehabilitation support system, rehabilitation support method, and rehabilitation support program

[..ver más](#)

OTRAS REFERENCIAS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
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WO 2021001394 A1	HOFFMANN LA ROCHE	Implantation needle for inserting a subcutaneously insertable element into a body tissue
WO 2021015608 A1	DE CANS CANS SERVICES SDN BHD	Telescopic drinking straw and method of producing the same
WO 2021006723 A1	DE CANS CANS SERVICES SDN BHD	Flexible drinking straw and method of producing the same
WO 2021007558 A1	ADVANCED BIONICS AG	Systems and methods for training a machine learning model for use by a processing unit in a cochlear implant system
WO 2021039079 A1	UNICHARM CORP	Management system, management device, management method, and management program
WO 2021025368 A1	KNU INDUSTRY COOPERATION FOUND	Non-contact portable tonometry system and tonometry method using difference in infrared intensity
WO 2021026218 A2	KNOW BIO LLC	Treatment of central nervous system disorders
WO 2021039658 A1	PANASONIC IP MAN CO LTD	Control system, alarm system, alarm device, processing method, and program
WO 2021050390 A1	GEN ELECTRIC	Delivery of therapeutic neuromodulation
WO 2021039655 A1	PANASONIC IP MAN CO LTD	Control system, disaster prevention system, processing method, and program

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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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