

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 2021178931 A1	AVAYA MAN L P	Telecommunications soft client having a gui-less operating mode
WO 2021175772 A1	WIDEX AS	Method of fitting a hearing aid gain and a hearing aid fitting system
WO 2021177068 A1	PANASONIC IP MAN CO LTD	Spatial control system
WO 2021175588 A1	MAJCHRZYK HORACEK MATTHIAS	Input device for use with a computer
WO 2021175390 A1	SATO HIROKI	Methods to assist verbal communication for both listeners and speakers
WO 2021181223 A1	IBM	Intraoral device control system
WO 2021181991 A1	OMRON TATEISI ELECTRONICS CO	Accessibility determination device, accessibility determination method, and program
WO 2021173841 A1	STARKEY LABS INC	Ear-wearable hearing device
WO 2021172700 A1	WADDLE CORP	System for blocking texts extracted from image, and method therefor
WO 2021160977 A1	VIKA BOOKS LTD	Instruction of a sign language
WO 2021168333 A1	FREEDOM SCIENTIFIC INC	Display for braille tablet
WO 2021166695 A1	PANASONIC IP MAN CO LTD	Oral function visualization system, oral function visualization method, and program
WO 2021131075 A1	JAPAN ELEVATOR SERVICE HOLDINGS CO LTD	Occupant assistance device and occupant assistance program
WO 2021165683 A1	MIURA SYSTEMS LTD	Touchscreen interface
WO 2021116760 A1	ORCAM TECHNOLOGIES LTD	Wearable systems and methods for selectively reading text
WO 2021136096 A1	ZTE CORP	Caption language identification method and apparatus, computer device, and computer-readable medium
WO 2021142999 A1	QINGDAO HISENSE MEDIA NETWORKS LTD	Content-based voice broadcasting method and display device
WO 2021166638 A1	SONY GROUP CORP	Control device, control method, and program
WO 2021125449 A1	OVERFLOW BIZ INC	Apparatus for enlarging and displaying screen and relaying same in real time, and operation method therefor
WO 2021168342 A1	ALLERGAN INC	Systems, methods, and computer program products for vision assessments using a virtual reality platform
WO 2021155023 A1	UNIV CALIFORNIA	Method and wearable device for detecting and verbalizing nonverbal communication
WO 2021163418 A1	UNIV FLORIDA	Human eyes design: first person vr characters for testing inclusive design solutions
WO 2021119211 A1	VISU INC	Methods for color-blindness remediation through image color correction
WO 2021140446 A1	AGASHE MANDAR	An audio enabled transaction status verification system and a method thereof
WO 2021158886 A1	GEORGIA TECH RES INST	Methods and systems to facilitate silent communication
WO 2021168249 A1	DAY MICHAEL JOSEPH	Visual signaling system

WO 2021165759 A1	COCHLEAR LTD	Implantable tinnitus therapy
WO 2021137250 A1	KUDAI SURESH THACHOLI	1hkeypad
WO 2021123850 A2	MEDICONTUR KFT	Computer implemented colour vision test and method of calibrating the computer implemented colour vision test
WO 2021142242 A1	FORMAT CIVIL ENG LTD	Systems, and programs for visualization of auditory signals
WO 2021142136 A1	UNIV CALIFORNIA	Embodied sound device and method

[...ver más](#)

AYUDA A LA MOVILIDAD

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

WO 2021178783 A1	DILORENZO ROBERT L	Assistive ambulation systems
WO 2021178425 A1	CAN MOBILITIES INC	Hybrid wheelchair
WO 2021182264 A1	SONY GROUP CORP	Information processing device, information processing method, and information processing program
WO 2021176438 A1	REHABIT TEC LTD	Physiotherapy apparatus
WO 2021178914 A1	NORTHWELL HEALTH INC	System and method for determining user intention from limb or body motion or trajectory to control neuromuscular stimulation or prosthetic device operation
WO 2021181992 A1	OMRON TATEISI ELECTRONICS CO	Movement supporting device, movement supporting method, and program
WO 2021124198 A1	SCUOLA SUPERIORE DI STUDI UNIV E DI PERFEZIONAMENTO SANTANNA	Variable stiffness orthotic shell
WO 2021122432 A1	COMMISSARIAT ENERGIE ATOMIQUE	Passive load balancer
WO 2021174340 A1	PROVA INNOVATIONS LTD	System and method for gait monitoring and improvement
WO 2021158130 A2	AL JADIDI AHMED	Device for the quadriplegic of the electrical room appliances
WO 2021123472 A1	UNIV ALICANTE	Portable, flexible, robotic exoskeleton for a hand
WO 2021117029 A1	BRAINQ TECH LTD	Treatment apparatus, systems and methods
WO 2021165929 A1	UNIV DELLA CALABRIA	A device for the rehabilitation of limbs
WO 2021118383 A1	FED GOSUDARSTVENNOE BIUDZHETNOE NAUCHNOE UCHREZHDENIE NAUCHNYI TSENTR NEVROLOGII	Method for the non-invasive stimulation of neuroplastic processes after stroke
WO 2021124299 A1	LITWITZ ELON	Walking assisting systems and methods
WO 2021120515 A1	BEIJING AI ROBOTICS TECH CO LTD	Length-adjustable lower limb structure, and exoskeleton robot using same
WO 2021132325 A1	NABTESCO CORP	Electric braking mechanism-equipped vehicle, wheel unit, and control program for wheel unit
WO 2021132324 A1	NABTESCO CORP	Electrically controlled vehicle
WO 2021132216 A1	NABTESCO CORP	Electric wheeled walking aid
WO 2021152523 A1	MOVIT S R L	Modular exoskeletal system
WO 2021160967 A1	WANDERCRAFT	Methods for generating a trajectory of an exoskeleton and for setting the exoskeleton in motion
WO 2021148950 A1	FONDAZIONE ST ITALIANO TECNOLOGIA	Electromechanical clutch with articulated elements, for exoskeletons and wearable assistance devices in general
WO 2021118388 A1	MOSCOW INSTITUTE OF PHYSICS AND TECH	Object handling system
WO 2021127390 A1	US GOV VETERANS AFFAIRS	Biofeedback system and methods of using same
WO 2021171291 A1	SEAMLESS VISION 2017 LTD	Self-navigating guide robot
WO 2021166739 A1	CYBERDYNE INC	Wearable motion assist device,
WO 2021165908 A1	BRIEL LOUWRENS JAKOBUS	Camera equipped cycle and coordinated punch exercise device and methods
WO 2021158316 A1	SIEGEL LAUREN	Smart walker system and method of use thereof
WO 2021153084 A1	SONY GROUP CORP	Guidance device, guidance method, and program

WO 2021163153 A1	UNIV ARIZONA STATE	Hip exoskeleton for lifting and pushing
WO 2021158769 A1	DIGNITY HEALTH	Systems and methods for a surgical positioning exoskeleton system
WO 2021148880 A1	XR HEALTH IL LTD	Systems for dynamic assessment of upper extremity impairments in virtual/augmented reality
WO 2021131185 A1	GAMAKATSU CO LTD	Assistance device

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TELEASISTENCIA SANITARIA

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

WO 2021110466 A1	KONINKLIJKE PHILIPS NV	Monitoring a patient with chronic obstructive pulmonary disease
WO 2021174229 A2	RAVEN MICHAEL	Method and apparatus for patient monitoring
WO 2021137110 A1	DRAEGERWERK AG & CO KGAA	A modular connector system and a modular connector having two or more detachably secured housings
WO 2021144033 A1	SIVANTOS PTE LTD	Method for operating a hearing aid
WO 2021144373 A1	WIDEX AS	A method of estimating a hearing loss, a hearing loss estimation system and a computer readable medium
WO 2021165702 A1	MCLAREN APPLIED LTD	Healthcare analytics
WO 2021153537 A1	TAKA KYOKO	Urine volume estimation device, methods for estimating urine volume and estimating urination timing, and programs for estimating urine volume and estimating urination timing
WO 2021151172 A1	ZIRA D O O	System and method of multichannel recording and digital analysis of respiratory sounds at different levels of inspiratory load
WO 2021135863 A1	HUAWEI TECH CO LTD	Image recognition method and device
WO 2021160702 A1	UNAIDE	Assistance system and method in particular for vulnerable persons
WO 2021132270 A1	SUNSTAR INC	Chewing support system
WO 2021163285 A1	ALIGN TECHNOLOGY INC	At home progress tracking using phone camera
WO 2021127348 A1	DARROH STEVEN	Voice training therapy app system and method
WO 2021142834 A1	SHENZHEN XIN KINGBRAND ENTPR CO LTD	Emergency call method, terminal device, and server
WO 2021148322 A1	KONINKLIJKE PHILIPS NV	System and method for assessing strength using wearable sensors
WO 2021164655 A1	AIPHAS CO	System for determining and notifying abnormal high-temperature of field
WO 2021144933 A1	NDSOFTWARE CO LTD	Data input support device
WO 2021144931 A1	NDSOFTWARE CO LTD	Data input assisting device
WO 2021132786 A1	MINDS LAB INC	System for processing training data of human care robot for elderly
WO 2021132269 A1	SUNSTAR INC	Chewing assistance system
WO 2021144930 A1	NDSOFTWARE CO LTD	Data-input assisting device
WO 2021148538 A1	WIDEX AS	Method of operating an in-situ fitting system and an in-situ fitting system
WO 2021140722 A1	OTTA INC	Emergency communication system
WO 2021138655 A1	SMOLARZ JOSEPH RYAN	Wireless audio transmitter and receiver bone device using bone conduction
WO 2021153680 A1	EQUOS RES CO LTD	Video compression device, detection device, video compression program, and detection program
WO 2021149319 A1	NEC SOLUTION INNOVATORS LTD	Health management device, health management method, health management system, program, and recording medium
WO 2021146748 A1	ACUCELA INC	Database of retinal physiology derived from ophthalmic measurements performed by patients

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OTRAS REFERENCIAS

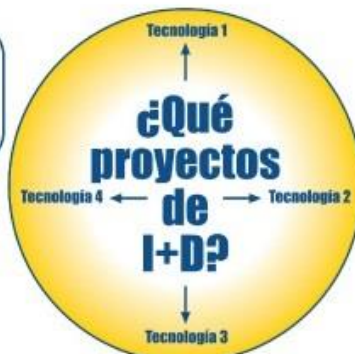
Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
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WO 2021170825 A1	BODE CHEMIE GMBH	Computer-implemented method and system for monitoring hand hygiene compliance
WO 2021165601 A1	CHABLOZ ORTHOPEDIE	Limb prosthesis
WO 2021162213 A1	CREPLE CO LTD	Comprehensive thinking ability learning tool
WO 2021144572 A1	THE UNIV OF DUNDEE	Stretchable sensor
WO 2021161836 A1	HOP LLC	Simple eyesight assist tool
WO 2021130799 A1	CARING CO LTD	All-weather walking stick
WO 2021158903 A1	UAB RES FOUND	Retinal vascular stress test for diagnosis of vision-impairing diseases
WO 2021162948 A1	MASSACHUSETTS INST TECHNOLOGY	Variable compression body anchor
WO 2021161719 A1	PANASONIC IP MAN CO LTD	Nursing care equipment provision assistance system, nursing care equipment provision assistance method, and program
WO 2021138892 A1	THIRD REALITY INC	Intelligent switch panel and intelligent remote control switch system
WO 2021165718 A1	KHAN AHMADI NIKOO	Electronic safety belt at high altitudes to prevent injury and shock
WO 2021162555 A1	ACADEMISCH ZIEKENHUIS LEIDEN	Apparatus for prevention of apnea
WO 2021143842 A1	YANG FENG	Graded diagnosis and treatment platform, system and method
WO 2021137749 A1	AKRIBIS SYSTEMS PTE LTD	Method and devices for measuring viscosity of liquid foods
WO 2021154643 A1	LANKENAU INST MEDICAL RES	Device for mitigation of personal injuries due to falls

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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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