

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 2021216718 A1	ROBLOX CORP	Systems and methods for accessible computer-user scenarios
WO 2021183615 A1	TACTILE SOLUTIONS INC	Rfid tag in display adapter
WO 2021217433 A1	QINGDAO HISENSE MEDIA NETWORKS LTD	Content-based voice playback method and display device
WO 2021186377 A1	MEDIAVOICE S R L	Method of browsing a resource through voice interaction
WO 2021198438 A1	UNIV GENT	A closed-loop method to individualize neural-network-based audio signal processing
WO 2021212232 A1	RYERSON UNIV	Precision phosphene control through cutaneous facial electrical stimulation
WO 2021183616 A1	TACTILE SOLUTIONS INC	Capture plate assembly for braille display
WO 2021219920 A1	KONE CORP	A solution for generating a touchless elevator call
WO 2021190752 A1	EATON INTELLIGENT POWER LTD	Tremor cancellation
WO 2021202915 A1	SYNCHRON AUSTRALIA PTY LTD	Systems and methods for controlling a device using detected changes in a neural-related signal
WO 2021206311 A1	OVERFLOW BIZ INC	Method for providing educational content for braille memo device user
WO 2021250596 A1	CESKE VYSOKE UCENI TECH V PRAZE	Unit for non-invasive stimulation of the visual cortex cells in severe visual impairment.
WO 2021244949 A1	UNIV STUTTGART	Input device for operating and/or controlling a technical device via a user
WO 2021218750 A1	GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP LTD	System and method for translating sign language
WO 2021251953 A1	GOOGLE LLC	Generation of interactive audio tracks from visual content
WO 2021230474 A1	SAMSUNG ELECTRONICS CO LTD	Electronic device, system, and control method therefor
WO 2021188062 A1	DEMIR MEHMET RACI	A configurable glove to be used for remote communication
WO 2021224497 A1	HEARABLE LABS UG HAFTUNGSBESCHRAENKT	Ear worn device
WO 2021231040 A1	MICROSOFT TECHNOLOGY LICENSING LLC	Descriptive insight generation and presentation system
WO 2021241034 A1	NAKAO MITSURU	Mask device with fan and transparent mask device
WO 2021182750 A1	SAMSUNG ELECTRONICS CO LTD	Display apparatus and method thereof

[...ver más](#)

AYUDA A LA MOVILIDAD

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

WO 2021191902 A1	B G NEGEV TECHNOLOGIES AND APPLICATIONS LTD AT BEN GURION UNIV	Balance trainer simulator system and method
WO 2021215513 A1	UNIV KEIO	FINGER MOTION ASSISTANCE DEVICE
WO 2021239719 A1	TK HOME SOLUTIONS B V	Stairlift for a right hand user and a left hand user
WO 2021213966 A1	SYNCSENSE APS	A method for operating a motivation enhancing exercise system
WO 2021219737 A1	HANDICARE STAIRLIFTS B V	Stair lift set comprising a stair lift and an adaptor system
WO 2021181469 A1	FUJITSU LTD	Processing selection program, processing selection system, and processing selection method
WO 2021191558 A1	HUMAN MECHANICAL TECH	Cuff for attaching an arm of an exoskeleton to an upper limb of a user
WO 2021197256 A1	YUAN BO	Parallel elastic driver of power-assisted exoskeleton, and control method therefor
WO 2021209444 A1	NAVIBLIND APS	A method and a system for guiding a blind or a visually impaired individual along a path
WO 2021239939 A1	TK HOME SOLUTIONS B V	Stairlift safety system
WO 2021173860 A1	ROAM ROBOTICS INC	Fluidic actuator systems and methods for mobile robots
WO 2021239306 A1	TK HOME SOLUTIONS B V	Stairlift remote control unit
WO 2021246988 A1	ORTA DOGU TEKNIK UNIV	Multi-purpose mobile barrier-free access system
WO 2021239506 A1	TK HOME SOLUTIONS B V	A folding system for stairlift
WO 2021214521 A1	SHARIFRAZI DANIAL	Neuro-rehabilitation system for patients with movement disorders and visual disabilities by audio-visual feedback based on deep learning
WO 2021230993 A2	ELYSIUM ROBOTICS LLC	Dielectric elastomer microfiber actuators
WO 2021242775 A1	UNIV JOHNS HOPKINS	System and method for implantable muscle interface
WO 2021248007 A1	BATTELLE MEMORIAL INSTITUTE	Portable and wearable hand-grasp neuro-orthosis
WO 2021188950 A1	U S BIONICS INC DBA SUITX	Remote center shoulder joint for shoulder supporting exoskeleton
WO 2021247299 A1	DEPHY INC	Systems and methods for bilateral wireless communication
WO 2021212094 A1	UNIV FLORIDA STATE RES FOUND INC	Diagnostic and therapeutic splints and methods of use
WO 2021247311 A1	DEPHY INC	Customized configuration for an exoskeleton controller
WO 2021195696 A1	ARTRA DESIGN PTY LTD	A device for supporting a lower limb
WO 2021231609 A1	CALIFORNIA INST OF TECHN	Decoding movement intention using ultrasound neuroimaging
WO 2021228900 A1	ETH ZUERICH	Moving device for moving a human thumb, hand-exoskeleton and method of grasping
WO 2021188516 A1	UNIV VANDERBILT	Exosuit having adjustable modular straps and bands
WO 2021242974 A1	ROAM ROBOTICS INC	Fit and suspension systems and methods for a mobile robot
WO 2021247321 A1	DEPHY INC	Real-time feedback-based optimization of an exoskeleton
WO 2021188069 A1	KARAZEYBEK AYHAN	Wearable exoskeleton for short range personal transportation
WO 2021234259 A1	BERTRAND CLAUDE	Assembly for translational movement of wheelchair wheels for persons with motor disabilities
WO 2021242975 A1	ROAM ROBOTICS INC	Battery systems and methods for a mobile robot
WO 2021234151 A1	MOTORICA AB	Speech-driven gesture synthesis
WO 2021188947 A1	UNIV UTAH RES FOUND	Self-aligning mechanisms in passive and powered exoskeletons
WO 2021230759 A1	PHILIPPINE SCIENCE HIGH SCHOOL CENTRAL VISAYAS	System for assisting a visually impaired user

WO 2021242980 A1	ROAM ROBOTICS INC	User interface and feedback systems and methods for a mobile robot
WO 2021225464 A1	OBSHCHESTVO S OGRANICHENNOY OTVETSTVENNOSTY U EXOATLET	Method and device for diagnosing the functional condition of the musculoskeletal system
WO 2021234061 A1	ROBOTIQUES 3 DIMENSIONS	Improved exoskeleton device for assisting vertical forces
WO 2021231612 A1	SIN EMERGING TECH LLC	Systems and methods for augmented reality-based interactive physical therapy or training
WO 2021242083 A1	KOREA ADVANCED INST SCI & TECH	String actuator-based exoskeleton robot
WO 2021216886 A2	VIRGINIA TECH INTELLECTUAL PROPERTIES INC	Intelligent hand exoskeleton with grasping assistance

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TELEASISTENCIA SANITARIA

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2021187538 A1	KOGANE HAJIME	Emergency system
WO 2021191382 A1	ESSILOR INT	Device and process for alerting for eye exam or change of frame or lens
WO 2021199660 A1	SONY GROUP CORP	Information processing device, information processing system, information processing method, and program
WO 2021183927 A1	ADVANCED ANIMAL DIAGNOSTICS INC	Rapid mobile screening and triage for infections and infection severity
WO 2021188594 A1	DRAWBRIDGE HEALTH INC	Systems and methods for sample collection
WO 2021206094 A1	TRIPLE W JAPAN INC	Urination prediction system, urination prediction method, and urination prediction program
WO 2021190329 A1	HUAWEI TECH CO LTD	Spatial multiplexing method, device, computer readable storage medium, and chip
WO 2021205828 A1	UNIV TOKYO	Prognosis prediction device and program
WO 2021213935 A1	HOFFMANN LA ROCHE	Automated assessment of cognitive and speech motor impairment
WO 2021187066 A1	WKWK INC	Body motion sensor, program, and information presentation system
WO 2021222904 A1	MONCRIEFF DEBORAH	Devices and methods for auditory rehabilitation for interaural asymmetry
WO 2021210362 A1	TERUMO CORP	Symptom recording device, symptom recording method, and program
WO 2021200044 A1	INFIC INC	Bed-leaving prediction notification device and program
WO 2021202420 A1	MILLER AGUSTIN RUIZ	Universal home testing system for infectious diseases
WO 2021222323 A1	ILUMI SOLUTIONS INC	System and method for exchanging and storing electronic keys
WO 2021194880 A1	RESPIRIX INC	Devices and methods for predicting, identifying and/or managing pneumonia or other health status
WO 2021191699 A1	COCHLEAR LTD	Intraoperative vibrational feedback assessment
WO 2021186655 A1	HITACHI LTD	Fall risk evaluation system
WO 2021216922 A1	HYPERMED IMAGING INC	Portable hyperspectral imaging device
WO 2021209921 A1	SYNCTECH SA	Method and wearable electronic device for rescuing a person in distress
WO 2021240092 A1	ORANGE	Predicting an emotional state of a user in an environment and triggering a digital service according to the predicted emotional state
WO 2021212226 A1	CARDIAI TECH LTD	Electrochemical-sensing apparatus and method therefor
WO 2021211542 A1	BAYLOR COLLEGE MEDICINE	Daily living monitoring and management system
WO 2021229512 A1	VAYYAR IMAGING LTD	Systems and methods for ongoing monitoring of health and wellbeing
WO 2021236202 A1	UR24TECHNOLOGY INC	Methods and apparatus for collecting body fluids
WO 2021205435 A1	RAPID BIO PASS LTD	Home testing with closed feedback loop and central epidemiological monitoring
WO 2021191905 A2	VEEV GROUP INC	System, method and computer program product which uses biometrics as a feedback for home control monitoring to enhance wellbeing
WO 2021227874 A1	HANGZHOU EZVIZ SOFTWARE CO LTD	Falling behaviour detection method and device
WO 2021194960 A2	TECTUS CORP	Electronic intraocular devices
WO 2021216014 A1	DAYANIR YELDA OEZSUNAR	A system to analyze body fluids
WO 2021231326 A1	MASIMO CORP	System for transmission of sensor data using dual communication protocol

[..ver más](#)

OTRAS REFERENCIAS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
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WO 2021187308 A1	DATA SOLUTIONS INC	Living body detection device, living body detection method, and program
WO 2021191319 A1	PAKFLATT UK LTD	A voting apparatus
WO 2021201852 A1	ADVANCED BIONICS AG	Cochlear implant electrode arrays having orientation indicators and cochlear implants including the same
WO 2021240184 A1	METRICON S A	Device for the measurement of persons' body temperature
WO 2021195099 A1	SIGNANT HEALTH GLOBAL LLC	System and method for immutable virtual pre-site study
WO 2021205197 A1	SAYEDAHMAD MOHAMMAD	Wireless dimple for fish hook
WO 2021219614 A1	CARL VON OSSIETZKY UNIV OLDENBURG	Auditory prosthesis, in particular cochlear implant
WO 2021239436 A1	OTTOBOCK SE & CO KGAA	Method for securing an orthopaedic device and orthopaedic device
WO 2021245269 A1	ONCOMFORT SA	A method and system for monitoring a level of modified consciousness and a level of pain
WO 2021226682 A1	DE ALMEIDA LINS PEDRO ALVES	Arrangement applied to an elastic band for identifying drugs and the like
WO 2021195191 A1	SKUSE BRIAN	Height adjustable walking aid
WO 2021237278 A1	JAGGER ROBIN DRUMMON	Container assembly
WO 2021245267 A1	DOS SANTOS BERNARDES CARLOS EMANUEL	System for fixing an ophthalmic lens to sunglasses and method thereof
WO 2021233661 A1	BECTON DICKINSON ROWA GERMANY GMBH	Packaging apparatus for small piece goods, and method for producing a blister sleeve strip comprising a plurality of blister pouches

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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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