

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 2022057609 A1	IBM	Physical cursor control in microfluidic display devices
WO 2022058820 A1	IBM	Wearable device enablement for visually impaired user
WO 2022043371 A1	INVENTIO AG	Elevator system having elevator operating devices for passengers with limited mobility
WO 2022048776 A1	ERICSSON TELEFON AB L M	A computer software module arrangement, a circuitry arrangement, an arrangement and a method for an improved user interface
WO 2022047097 A1	ENVOY MEDICAL CORP	Programming of cochlear implant accessories
WO 2022008622 A1	#26INSTITUT MINES TELECOM	Scleral lens comprising a cover portion encapsulating one or more electronic components and configured to leave the pupil of the lens-wearing eye visible
WO 2022051368 A1	ENCHROMA INC	Spectral glare control eyewear for color blindness and low vision assistance
WO 2022053330 A1	INVENTIVIO GMBH	Tactile graphics reader
WO 2022053306 A1	CONTINENTAL AUTOMOTIVE GMBH	Method and hmi allowing a display suitable for users who have difficulty in perceiving colors
WO 2021236274 A1	MICROSOFT TECHNOLOGY LICENSING LLC	Localization and visualization of sound
WO 2022055567 A1	MICROSOFT TECHNOLOGY LICENSING LLC	Colorblind assistive technology system and method
WO 2021257280 A1	SNAP INC	Blind assist eyewear with geometric hazard detection
WO 2022043916 A1	SONY GROUP CORP	Audio enhancement for hearing impaired in a shared listening environment
WO 2022036365 A1	BEACON STREET INNOVATIONS LLC	Refreshable tactile display
WO 2022013603 A1	SHAMS IDEN	Hearing alert
WO 2021257984 A1	BOSE CORP	Earpiece charging case detection
WO 2022045472 A1	JEON SOO A	Piezoelectric linear motor-based braille cell
WO 2021260368 A1	UNIV OF ESSEX ENTERPRISES LIMITED	Visual assistance
WO 2022010331 A1	TAGFREE CO LTD	Button for both contact and non-contact use, button device usable both contactually and cotactlessly, and recognition method thereof
WO 2021256318 A1	SONY GROUP CORP	Information processing device, information processing method, and computer program
WO 2021257838 A1	SONY GROUP CORP	Multiple output control based on user input
WO 2022014818 A1	ASAN FOUND	Device and method for providing visual perception training using visual perception learning
WO 2022003255 A1	SEETRUE TECH OY	Gaze tracking for near-eye ocular device
WO 2022009229 A1	RAJAGOPAL KRISHNA THIRUVENGADAM	Device, to enable computer programming for visually impaired users
WO 2022023904 A1	MYPINPAD LTD	Data input and overlay device for use with a touchscreen
WO 2022020344 A1	PENN STATE RES FOUND	Augmented reality hand guidance application for people with visual impairments
WO 2022026304 A1	TOUCHPAD PRO ASSISTIVE TECH LLC	Tactile drawing and writing apparatus for the visually impaired
WO 2022011432 A1	UNIV SWINBURNE TECHNOLOGY	Wearable vibro-tactile feedback device

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AYUDA A LA MOVILIDAD

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

WO 2022043995 A1	RAPOPORT ANATOLI	Head-mounted guide unit for blind people
WO 2022043862 A1	IUVO S R L	Exoskeleton device for outdoor activities and components for use therewith
WO 2022043843 A1	ECOLE POLYTECHNIQUE FED LAUSANNE EPFL	Hand exoskeleton for rehabilitation and assistance of hand motor functions
WO 2021261794 A1	JS CHEM CORP	Method and device for recognizing gait information using plurality of magnetic sensors
WO 2022015160 A1	UNIV DELFT TECH	A virtual reality wearable system
WO 2022055443 A1	YILDIZ TEKNIK UNIV	Method for robotic feeder platform for disabled individuals
WO 2022036327 A1	CAMINO ROBOTICS INC	Robotic rollator walker with automated power drive
WO 2022047377 A1	MACRI VINCENT JOHN	Digital virtual limb and body interaction
WO 2022053447 A1	HUMAN MECHANICAL TECH	Exoskeleton comprising an elastic element
WO 2022049533 A1	THEIA GUIDANCE SYSTEMS LTD	Mobility assistance device and method of providing mobility assistance
WO 2022004983 A1	SAMSUNG ELECTRONICS CO LTD	Supporter having bistable spring, and exercise assistance apparatus including same
WO 2021247292 A1	DEPHY INC	Systems and methods for a compressed controller for an active exoskeleton
WO 2021259841 A1	TK HOME SOLUTIONS B V	Method for raising an alert in connection with the use of a platform lift
WO 2022045482 A1	MEDIENVI TECH	Automatic excreta disposal device
WO 2022016218 A1	MIRCEA EUGEN VIRGIL COCIUBAN THE TRUSTEE FOR ROFRAUS TRUST	Descending mechanised access ramp (d-mar)
WO 2021242742 A1	ROAM ROBOTICS INC	Direct drive pneumatic transmission for a mobile robot
WO 2022019093 A1	PANASONIC IP MAN CO LTD	Daily-life activity state assessment system, daily-life activity state assessment method, program, daily-life activity state assessment apparatus, and daily-life activity state assessment device
WO 2022023251 A1	OTTOBOCK SE & CO KGAA	Orthopedic device
WO 2021211359 A1	TOYOTA RES INST INC	Wearable exoskeleton
WO 2021260448 A1	UNIV SANTIAGO DE CALI	Robotic platform for hippotherapy and method for cognitive assessment and stimulation
WO 2022020777 A1	HEMOCARE PRODUCTS INC	Door mat
WO 2021245317 A1	TECNIMUSA S L	Rehabilitation device
WO 2022006384 A1	GEORGIA TECH RES INST	Exoskeleton systems and methods of use
WO 2022006659 A1	EPIC SAFETY INC	Method and apparatus for detecting fall events
WO 2021252614 A1	UNIV NORTHERN ARIZONA	Cable-actuated, kinetically-balanced, parallel torque transfer exoskeleton joint actuator with or without strain sensing

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TELEASISTENCIA SANITARIA

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2022049710 A1	NEC CORP	Service providing device, service providing system, service providing method, and non-transitory computer readable medium
WO 2022044017 A1	TINGO MEDICAL LTD	Continuous glucose sensor and mounting assembly
WO 2022048829 A1	INNOVOLO LTD	Alert system
WO 2021255717 A1	SAEKEL KILIAN	Method of interactive physical and cognitive training based on multi-sensory, external stimulation and body gesture sensing
WO 2022009158 A1	RONDISH COMPANY LTD	Patient monitoring sensor pad
WO 2022050940 A1	FUTUREWEI TECHNOLOGIES INC	Power efficient agent monitoring devices and methods
WO 2022046649 A1	ENVISION ANALYTICS INC	Assessing patient out-of-bed and out-of-chair activities using embedded infrared thermal cameras
WO 2022036047 A1	HOUSCH ROBIN DAWN	Wearable tracking device and system for tracking people and personal items
WO 2022051710 A1	UNIV NORTHEASTERN	Method for visual function assessment
WO 2022035822 A1	BAXTER INT	Iv dressing with embedded sensors for measuring fluid infiltration and physiological parameters
WO 2022035809 A1	ACUCELA INC	System and method for optical coherence tomography a-scan deconvolving
WO 2022047006 A1	BAND CONNECT INC	System and method for remotely providing and monitoring physical therapy
WO 2022008582 A1	ONTEX BV	Monitoring device attachable to an absorbent article, and respective method and absorbent article
WO 2021253071 A1	UMPS HEALTH PTY LTD	System, method and device for monitoring wellbeing
WO 2022006354 A1	MADKAN ASHWANI	Eye examination device, system and method
WO 2022026725 A1	STARKEY LABS INC	Hypoxic or anoxic neurological injury detection with ear-wearable devices and system
WO 2022043748 A2	PRECI HEALTH SA	Capillary blood sampling device and method of use
WO 2022005969 A1	ABBOTT DIABETES CARE INC	Systems, devices, and methods for meal information collection, meal assessment, and analyte data correlation
WO 2021256822 A1	KOREA INST SCI & TECH INF	Activity of daily living-based dementia prediction method and device therefor
WO 2022009469 A1	HITACHI LTD	Trust information providing system
WO 2022020267 A1	GET GRIN INC	Systems and methods for modeling dental structures
WO 2022023951 A1	DUEARITY AB	Energy transmitting device and system to monitor and treat tinnitus
WO 2021257898 A1	CIRCADIA TECH LTD	Systems, apparatus and methods for acquisition, storage, and analysis of health and environmental data
WO 2022035690 A1	PATEL KEVIN	System for remote medical care
WO 2022029414 A1	GYROGEAR LTD	Systems and methods for tremor management
WO 2021242621 A1	NEC LAB AMERICA INC	Free flow fever screening
WO 2022004241 A1	PANASONIC IP MAN CO LTD	Receiver, signal processing system, and human analysis system
WO 2022020174 A1	MEDIBEACON INC	Systems and methods for home transdermal assessment of gastrointestinal function
WO 2021247272 A1	UNIVERSAL ELECTRONICS INC	System and method for providing a health care related service
WO 2022040335 A1	SHIFRIN COOPER	Apparatus and method of managing pressure injuries
WO 2022009166 A1	DARVIS INC	Systems and methods for monitoring subjects
WO 2022031343 A1	ARRIS ENTPR LLC	Device, method, and computer readable medium for sending an emergency message
WO 2022024192 A1	NIPPON TELEGRAPH & TELEPHONE	Information processing device, information processing method, and program
WO 2022031628 A1	WEAVR HEALTH CORP	Systems and methods for acquisition and testing of biological samples
WO 2022010412 A1	PINK NECTARINE HEALTH AB	A personal device, a system and methods for transmitting data associated with the personal device
WO 2021258004 A1	HARROW IP LLC	Systems and methods for remote monitoring and treatment of intraocular pressure disease
WO 2022026997 A1	UNIV MINNESOTA	Wearable ambulatory sensors for measurement of breathing motions

WO 2022026993 A1	UNIV NORTHWESTERN	Antimicrobial choice algorithm for urinary tract infections
WO 2021262905 A2	BRAINBOX SOLUTIONS INC	Multimodality systems and methods for detection, prognosis, and monitoring of neurological injury and disease

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OTRAS REFERENCIAS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
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WO 2022047613 A1	CHONGQING INST GREEN & INTELLIGENT TECH CAS	System and method for analyzing ad or mci or cn disease development trend by means of multi-modal modeling
WO 2022034301 A1	BARRETT EMILY	Bed restraining apparatus and method of use thereof
WO 2021239169 A1	VIVA CV S R O	An automobile module for transport of handicapped persons, a handling assembly for this module, an automobile with the assembly, and a method of transferring the module
WO 2022051808 A1	AUCURO PTY LTD	A device for holding a shower head
WO 2021256921 A1	UNIV EINDHOVEN TECH	Two-dimensional optical waveguide pressure sensor array
WO 2022015472 A1	COVIDIEN LP	Sensor including electrically conductive material containment assembly
WO 2022042968 A1	ZAHNRADFABRIK FRIEDRICHSHAFEN	Camera-based registration of patients in an event causing great damage
WO 2022040701 A1	SP INT USA INC	Portable urinary aid device
WO 2022038818 A1	HITACHI LTD	Behavior recommendation device and behavior recommendation method
WO 2022008397 A1	KONINKLIJKE PHILIPS NV	User interface for x-ray tube-detector alignment
WO 2021260526 A1	MOR RESEARCH APPLIC LTD	System and method for characterizing droopy eyelid
WO 2022005164 A1	KO YOUNG JI	Bed robot apparatus
WO 2021236524 A1	INSURANCE SERVICES OFFICE INC	Machine learning systems and methods for multiscale alzheimer's dementia recognition through spontaneous speech
WO 2022006513 A1	UNIV WAKE FOREST HEALTH SCIENCES	Blood pressure digital health devices, systems, and methods of use
WO 2021250232 A1	SENSIBLE HOLDING B V	Portable device for continuous analysis of a body fluid of a patient
WO 2022005162 A1	KO YOUNG JI	Bathing robot device

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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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