

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 2021117985 A1	OVERFLOW BIZ INC	Braille memo device
WO 2021069434 A1	GN HEARING AS	A hearing device having a magnetic induction coil
WO 2021076380 A1	MICROSOFT TECHNOLOGY LICENSING LLC	Eye gaze control of magnification user interface
WO 2021076094 A1	GOOGLE LLC	An audio-to-tactile converter for speech and sound Access
WO 2021079101 A1	UNIV BATH	Tactile pixels
WO 2021053605 A1	PROTO ALESSANDRA	Computerised system to provide assistance to a person, in particular to a blind or visually impaired person
WO 2021076383 A1	MICROSOFT TECHNOLOGY LICENSING LLC	Adaptive assistive technology techniques for computing devices
WO 2021081414 A1	ADVANCED BIONICS AG	Systems and methods for fitting a hearing system to a recipient based on cortical potentials of the recipient
WO 2021061450 A1	QSINX MAN LLC	Scene-to-text conversion
WO 2021087521 A1	STARKEY LABS INC	Snr profile adaptive hearing assistance attenuation
WO 2021084076 A1	21STSENSE OUE	Time apparatus
WO 2021087060 A1	TACTILE ENG LLC	Refreshable tactile display adapter
WO 2021084300 A1	CHERRADI EL FADILI IBRAHIM FARID	A reading method for the blind based on reverse free fingers typing technology
WO 2021058239 A1	VOLKSWAGEN AG	Method and vehicle having a device for finding the vehicle
WO 2021119211 A1	VISU INC	Methods for color-blindness remediation through image color correction
WO 2021104965 A1	HEALTH E HEALTH COORP SL	Device, method and computer programs for visual field rehabilitation
WO 2021101459 A1	BIOPRETINA BIOTEKNOLOJI VE BIYOMEDIKAL SAGLIK YATIRIMLARI ANONIM SIRKETI	Clinical and personal electromagnetic stimulator and iontophoresis device for treating retina and optical nerve diseases
WO 2021112421 A1	KOREA RES INST STANDARDS & SCI	System and method for motion communication using piezoelectric sensors
WO 2021108850 A1	COMMW SCIENT IND RES ORG	Runtime optimised artificial vision
WO 2021089179 A1	VRVIS ZENTRUM FUER VIRTUAL REALITY UND VISUALISIERUNG	Apparatus, system and method for producing a three-dimensional structure in a medium
WO 2021054295 A1	SOUND FUN CORP	Speaker unit and speaker
WO 2021090102 A1	INDIAN INST SCIENT	System for operating joystick
WO 2021108844 A1	COMMW SCIENT IND RES ORG	Salient object detection for artificial vision
WO 2021062503 A1	DE ALMEIDA SACRAMENTO PEDRO	Efficient actuation mechanism and method for automatic control of massive quantities of vertical pins using small numbers of actuators
WO 2021067718 A1	TOYOTA ENG & MFG NORTH AMERICA	Systems and methods for providing audio information in a vehicle

WO 2021076136 A1	HEWLETT PACKARD DEVELOPMENT CO	Meeting inputs
WO 2021086298 A1	ATATUERK UNIVERSITESI BILIMSEL ARASTIRMA PROJELERI BIRIMI	Accessibility apparatus
WO 2021062276 A1	NEOSENSORY INC	System and method for haptic stimulation
WO 2021067533 A1	HARVARD COLLEGE	Segmented alphanumeric display using electromagnetic microactuators

[...ver más](#)

AYUDA A LA MOVILIDAD

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
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WO 2021072367 A1	NEUROLUTIONS INC	Orthosis systems and rehabilitation of impaired body parts
WO 2021098914 A1	REACTIVE ROBOTICS GMBH	Device for performing individual movement analysis and therapy on a patient
WO 2021099993 A1	BELTMAP SRL	Orientation aid device
WO 2021101460 A1	ESKISEHIR TEKNIK UNIV	Navigational assistance system with auditory augmented reality for visually impaired persons
WO 2021100815 A1	SEIREI SOCIAL WELFARE COMMUNITY	Movement data collection method, movement data analysis system, movement diagnosis assistance system, and analysis program
WO 2021058918 A1	WANDERCRAFT	Methods for learning parameters of a neural network, for generating a trajectory of an exoskeleton and for setting the exoskeleton in motion
WO 2021048485 A1	ARTHA FRANCE	Orientation assistance system
WO 2021058366 A1	HILTI AG	Device for providing a supporting force for the upper extremities of a user, and exoskeleton
WO 2021084579 A1	MAKOTO BIONICS INC	Wheelchair that allows walking
WO 2021086471 A1	AMBULATUS ROBOTICS LLC	Autonomous robotic mobile support system for the mobility-impaired
WO 2021070765 A1	NEC CORP	Guidance device, guidance method, and recording medium
WO 2021092041 A1	OSSUR ICELAND EHF	Interface for an exoskeleton
WO 2021108531 A1	UNIV MARYLAND	Systems and methods for gait analysis
WO 2021072460 A1	SEDLACKOVA KATERINA	Clothing item
WO 2021087393 A1	DIGNITY HEALTH	Apparatus for storage and transportation of an exoskeleton
WO 2021096874 A1	DEPHY INC	Lower limb exoskeleton
WO 2021107790 A1	OPUM TECH LIMITED	A wearable device for determining motion and/or a physiological state of a wearer
WO 2021066677 A1	OBSHCHESTVO S OGRANICHENNOY OTVETSTVENNOSTY U EXOATLET	Exoskeleton actuator
WO 2021088664 A1	YROBOT	Ankle-assisted exoskeleton device
WO 2021066670 A1	LIMITED LIABILITY COMPANY NEUROASSISTIVE TECH	Method for recognizing phases of a complex movement using emg signal processing
WO 2021090445 A1	NIPPON TELEGRAPH & TELEPHONE	Guide text generation device, guide text generation system, guide text generation method, and program
WO 2021089594 A1	EXOVIBE	Improved artificial muscle, exoskeleton, related method and system
WO 2021092530 A1	ROCK RHONDA G	Rolling cane

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TELEASISTENCIA SANITARIA

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2021111587 A1	NIPPON TELEGRAPH & TELEPHONE	Monitoring system, monitoring method, and monitoring program
WO 2021112131 A1	SEKISUI CHEMICAL CO LTD	State determination method, state determination device, state determination system, state determination program, and recording medium
WO 2021102588 A1	WINTERLIGHT LABS INC	System and method for cross-language speech impairment detection
WO 2021113988 A1	WINTERLIGHT LABS INC	System and method for improved feature definition using subsequence classification
WO 2021106162 A1	NIPPON TELEGRAPH & TELEPHONE	Monitoring system, monitoring method, and monitoring program
WO 2021106319 A1	NEC CORP	Environment management system, environment management method, and non-transitory computer-readable medium storing program
WO 2021048514 A1	UNIV OXFORD INNOVATION LTD	Predicting clinical outcomes in parkinson's disease
WO 2021064214 A1	ICM INST DU CERVEAU ET DE LA MOELLE EPINIERE	System for the automatic evaluation of cognition and consciousness of an individual through external stimulations
WO 2021085207 A1	KANAMIC NETWORK CO LTD	Medicine administration management device, medicine administration management method, and medicine administration management program
WO 2021084593 A1	MITSUBISHI ELECTRIC CORP	Room entry/exit management system
WO 2021116262 A1	ASSA ABLOY AB	Improving machine learning for monitoring a person
WO 2021087185 A1	MATRIXCARE INC	Systems and methods for quantifying hazards in living spaces
WO 2021085583 A1	HONDA MOTOR CO LTD	Electronic instrument
WO 2021105665 A1	HUMA THERAPEUTICS LTD	Apparatus for monitoring the progression of visual impairment
WO 2021070472 A1	SONY CORP	Information processing device, information processing system, and information processing method
WO 2021092964 A1	BOATEK JI AN ELECTRONIC CO LTD	Electronic doctor-based community elderly blood glucose smart consultation system
WO 2021108357 A1	CARDIAC MOTION LLC	Pulmonary artery pressure change monitor
WO 2021100062 A1	ASHVA WEARABLE TECH PRIVATE LIMITED	Bio-signal acquisition and feedback
WO 2021092965 A1	BOATEK JIAN ELECTRONIC CO LTD	Community health and medical system based on electronic product
WO 2021070686 A1	OMRON TATEISI ELECTRONICS CO	Evaluation support device, evaluation support method, and evaluation support system
WO 2021107410 A1	INFOBANK CORP	Method for providing medical consultation chatting service using simultaneous interpretation, and server and computer program for performing same
WO 2021095786 A1	TANITA SEISAKUSHO KK	Measurement subject individual registration device, biological information measurement device, measurement subject individual registration program, measurement subject individual registration method, measurement subject individual registration system, and computer-readable non-transitory storage medium
WO 2021081370 A1	WISE IOT SOLUTIONS	System and method for processing human related data including physiological signals to make context aware decisions with distributed machine learning at edge and cloud
WO 2021081635 A1	COGNITIVE SYSTEMS CORP	Using mimo training fields for motion detection
WO 2021067787 A1	UNIV TEXAS	Systems and methods for early breast cancer detection

WO 2021068106 A1	HUAWEI TECH CO LTD	Towards scalable, robust and cost-efficient mechanism for multiple object localization in smart indoor environment
WO 2021078736 A1	ASSA ABLOY AB	Controlling camera-based supervision of a physical space
WO 2021055443 A1	HOFFMANN LA ROCHE	Improvements in personalized healthcare for patients with movement disorders
WO 2021085793 A1	SMART MEDICAL DEVICE CO LTD	Shoe having position tracking function

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OTRAS REFERENCIAS

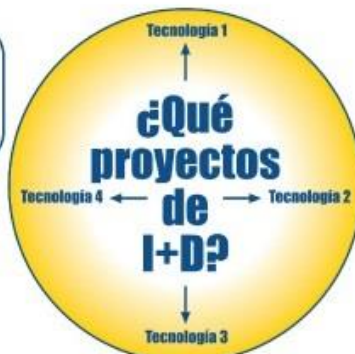
Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
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WO 2021102426 A1	BARDY DIAGNOSTICS INC	Insertable physiological monitor injector tool
WO 2021112477 A1	HALCYON INC	Bedsore-preventing mattress combined with sound vibration module and air fibers, and operating method therefor
WO 2021105543 A1	BIOWAIR TOTAL SYSTEMS S L	Breathing treatment equipment
WO 2021099952 A1	SPES MEDICA SRL	Electrode for recording electroencephalographic signals and/or stimulating patients
WO 2021094499 A1	UNIV SAARLAND	Device and method for improved induction of noise by means of electromagnetic radiation
WO 2021084005 A1	UNIV DER JOHANNES GUTENBERG UNIV MAINZ	Device and method for determining sleep apnoea
WO 2021062016 A1	UNIV CALIFORNIA	Peripheral brain-machine interface system via volitional control of individual motor units
WO 2021046209 A1	LOCKHEED CORP	Spacesuit with liquid cooling ventilation garment, soft exoskeleton, and biosensors
WO 2021101100 A1	RMK INC	Lens module and eyeglass module comprising same
WO 2021087295 A1	CR PACKAGING LLC	Child resistant container having integrated window
WO 2021075578 A1	JAPAN IDEA ASSOCIATION OF DISABLED SPECIFIED NONPROFIT CORP	Consideration measure evaluation device, consideration measure evaluation program, and consideration measure evaluation method
WO 2021101479 A1	ATATUERK UENIVERSITESI BILIMSEL ARASTIRMA PROJELERI BIRIMI	A system for diagnosing sleep disorders
WO 2021065181 A1	NEC CORP	Rehabilitation work support device, rehabilitation work support system, rehabilitation work support method, and computer readable medium
WO 2021062344 A1	PRESTAN PRODUCTS LLC	Rate monitor for portable medical training device
WO 2021091508 A1	ZORLUTEKS TEKSTIL TICARET VE SANAYI ANONIM SIRKETI	An electrical stimulation system

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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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