

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 2022101604 A1 | PRETORIAN TECH LTD | Computer control system |
| WO 2022106196 A1 | WIDEX AS | Method of suppressing acoustic feedback in a binaural hearing aid system |
| WO 2022132381 A1 | SNAP INC | Eyewear including sign language to speech translation |
| WO 2022125951 A1 | CONNECTPOINT INC | Text to speech announcement system |
| WO 2022123237 A1 | VISION TECH LTD | Vision aid device |
| WO 2022125025 A1 | TURAS GAZ ARMATUERLERI SAN VE TIC A S | A stage group for gas taps |
| WO 2022117292 A1 | ROLLS ROYCE PLC | Method of training a neural network |
| WO 2022117291 A1 | ROLLS ROYCE PLC | System for reply generation |
| WO 2022115196 A1 | MICROSOFT TECHNOLOGY LICENSING LLC | System and method of providing accessibility to visualization tools |
| WO 2022071959 A1 | GOOGLE LLC | Audio-visual hearing aid |
| WO 2022096408 A1 | SANOFI SA | A wearable medical device |
| WO 2022076404 A1 | UNIV COLUMBIA | Systems and methods for brain-informed speech separation |
| WO 2022079256 A1 | INSIDE VISION | Interactive terminal and method for interacting with a user |
| WO 2022110237 A1 | HUAWEI TECH CO LTD | Sensing apparatus, electronic device and control method for electronic device |
| WO 2022081949 A1 | UNIV LELAND STANFORD JUNIOR | Methods and apparatuses for extracochlear stimulation |
| WO 2022067112 A1 | UNIV SOUTHERN CALIFORNIA | System and method for restoring color perception to the blind |
| WO 2022060299 A1 | UNIV NANYANG TECH | Vision correction of screen images |
| WO 2022072754 A1 | HES IP HOLDINGS LLC | Systems and methods for dynamic image processing |
| WO 2022076745 A1 | BEAVERS JAY CURTIS | Systems, methods, and techniques for eye gaze control of seat and bed positioning |
| WO 2022097938 A1 | MIJ CO LTD | Bone conduction headset including mask attachment/detachment means |
| WO 2022084076 A1 | RABBIT EYES B V | Vision correction display device, eye-tracking system and method to compensate for visual impairments |
| WO 2022055705 A1 | ARRIS ENTPR LLC | An inclusive video-conference system and method |

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AYUDA A LA MOVILIDAD

| Nº PUBLICACIÓN | SOLICITANTE | CONTENIDO TÉCNICO |
|----------------|-------------|-------------------|
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| | | |
|----------------------------------|--|--|
| WO 2022125460 A1 | SARCOS CORP | Combining sensor output data to prevent unsafe operation of an exoskeleton |
| WO 2022102352 A1 | KYOCERA CORP | Ferrule, cane, and information processing system |
| WO 2022115957 A1 | AXTION INDEPENDENCE MOBILITY INC | Walker apparatus with lifting platform |
| WO 2022125461 A1 | SARCOS CORP | Redundant control policies for safe operation of an exoskeleton |
| WO 2022101971 A1 | NEC CORP | Detection device, detection system, detection method, and program recording medium |
| WO 2022108712 A1 | AYUDA MEDICAL LLC | Wearable continuous emergency medical monitoring system |
| WO 2022102851 A1 | CYBERMEDIC CO LTD | Virtual reality interactive type rehabilitation training apparatus |
| WO 2022079610 A1 | IUVO S R L | System for assisting an operator in exerting efforts |
| WO 2022104241 A1 | KYOCERA AVX COMPONENTS CORP | Exoskeleton powered using an ultracapacitor |
| WO 2022079745 A1 | ALGOON DI BERTUZZI ING LUCA | Static-dynamic stabiliser |
| WO 2022053761 A1 | WANDERCRAFT | Method for moving an exoskeleton |
| WO 2022069976 A1 | BIONIT LABS S R L | Integrated system for detection and processing electromyographic signals |
| WO 2022063834 A1 | BOCK OTTO HEALTHCARE PROD GMBH | Method for configuring a controller and orthopedic device, and computer program product |
| WO 2022074629 A1 | ALSAEDI MUATH | Handheld electro-mechanical walking aid |
| WO 2022096555 A1 | MOVEO SRL | Apparatus for assisted mobility |
| WO 2022078680 A1 | COMMISSARIAT ENERGIE ATOMIQUE | Staircase with instrumented steps with lifting actuator for assisted ascent or descent |
| WO 2022096480 A1 | MYOCENE | Muscle fatigue determination method |
| WO 2022079564 A1 | ETHICON INC | Smart walking foot assembly with dynamic feedback |
| WO 2022103441 A1 | TENCENT AMERICA LLC | Vision-based rehabilitation training system based on 3d human pose estimation using multi-view images |
| WO 2022092359 A1 | LEE JIWON | Gps navigation system for blind person using rfid and electronic compass |
| WO 2022085369 A1 | PANASONIC CORP | Pedestrian device, information collection device, base station device, positioning method, user management method, information collection method, and facility monitoring method |
| WO 2022050912 A1 | BAKIR OEMUER | A product controlled with waterproof piezo crystals |
| WO 2022069926 A1 | NIKJOOY MAJID | Blind stick with braille keyboard |
| WO 2022080165 A1 | HITACHI HIGH TECH CORP | Movement visualization system and movement visualization method |
| WO 2022063672 A1 | BOCK OTTO HEALTHCARE PROD GMBH | Bearing arrangement and orthopaedic device having same |
| WO 2022046703 A1 | DEPHY INC | Systems and methods for a water resistant active exoskeleton |
| WO 2022086737 A1 | HAPTX INC | Actuator and retraction mechanism for force feedback exoskeleton |
| WO 2022091656 A1 | PANASONIC IP MAN CO LTD | Walking assistance device, walking assistance method, and walking assistance program |
| WO 2022053934 A1 | IUVO S R L | System and process for estimation of gait phase for use with a wearable robot |
| WO 2022061380 A1 | SCHEU THOMAS | Guide apparatus for persons with impaired vision |
| WO 2022061250 A2 | NEURO20 TECH CORP | Systems and methods for managed training and rehabilitation via electrical stimulation |

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TELEASISTENCIA SANITARIA

| Nº PUBLICACIÓN | SOLICITANTE | CONTENIDO TÉCNICO |
|----------------|-------------|-------------------|
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| | | |
|----------------------------------|---|---|
| WO 2022106269 A1 | KONINKLIJKE PHILIPS NV | Device and method for controlling a camera |
| WO 2022109008 A1 | CERCACOR LAB INC | Glucose sensors and methods of manufacturing |
| WO 2022108715 A1 | FRESENIUS MEDICAL CARE HOLDINGS INC | Inflatable vest for respiratory assessment |
| WO 2022125766 A1 | ZOLL MEDICAL CORP | Inventory management of portable medical treatment and guidance apparatuses |
| WO 2022074227 A1 | HINLAB | Wearable vital signs monitoring device and method |
| WO 2022118084 A1 | BAGHERI HAMED | Hamed pd: private, all-specialized doctor for all |
| WO 2022112429 A1 | ATTENT AS | Dental transillumination device |
| WO 2022120208 A1 | WEARABLE TECH INC | Smart wearable personal safety devices and related systems and methods |
| WO 2022113030 A1 | MOR RESEARCH APPLIC LTD | System and method for monitoring human activity |
| WO 2022119910 A1 | BRIGHAM & WOMENS HOSPITAL INC | Spectrometry systems, methods, and applications |
| WO 2022116044 A1 | PI BIOELECTRONICS CO LTD | Management system for health care by using mattress sensing |
| WO 2022059141 A1 | NEC CORP | Determination device |
| WO 2022112427 A1 | ATTENT AS | Dental transillumination system |
| WO 2022115228 A1 | GEORGIA TECH RES INST | Systems and methods for measuring hemodynamic parameters with wearable cardiovascular sensing |
| WO 2022090678 A1 | SECURINET | Alert device for a person in a dangerous situation and its method of use by psychological conditioning |
| WO 2022065386 A1 | UNIV NAT CORP EHIME UNIV | Thought inference system, inference model generation system, thought inference device, inference model generation method, computer program, and inference model |
| WO 2022103119 A1 | METAMEDICINE INC | Portable medical diagnosis device and disease diagnosis method using same |
| WO 2022084349 A1 | FRESENIUS MEDICAL CARE DEUTSCHLAND GMBH | Method and system for automatically determining a quantifiable score |
| WO 2022067332 A1 | DOUGLAS RYAN J | Immersive medicine translational engine for development and repurposing of non-verified and validated code |
| WO 2022079730 A1 | ARORA MUKTA | Patient outreach intervention technology system and methodology |
| WO 2022099020 A1 | UNIV WASHINGTON | Devices, systems, and methods for personalized dosimetry |
| WO 2022065446 A1 | CITIZEN WATCH CO LTD | Feeling determination device, feeling determination method, and feeling determination program |
| WO 2022056241 A1 | PRE HEALTH TECH INC | Methods and devices to detect poor cerebral blood flow in real-time to prevent dizziness, fainting, and falls |
| WO 2022094130 A1 | VISUAL ONE TECH INC | Custom event detection for surveillance cameras |
| WO 2022065391 A1 | TERUMO CORP | Symptom recording device, symptom recording method, and program |
| WO 2022085480 A1 | SONY GROUP CORP | Display control method, remote medical system, and program |
| WO 2022054030 A1 | ADARI SWARNA KUMARI | A smart, personal and portable medical diagnostic device |
| WO 2022093707 A1 | ROC8SCI CO | Cardiopulmonary health monitoring using thermal camera and audio sensor |
| WO 2022086973 A1 | KPR US LLC | Multiparameter lead set and methods of use thereof |
| WO 2022090900 A1 | ITAMAR MEDICAL LTD | System and method for performing a remote sleep apnea test |
| WO 2022087670 A1 | SLEEPTITE PTY LTD | Device, method and manufacturing method for electronic strain sensor |
| WO 2022067077 A1 | UNIV WASHINGTON | Beamforming systems and methods for detecting heart beats |

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OTRAS REFERENCIAS

| Nº PUBLICACIÓN | SOLICITANTE | CONTENIDO TÉCNICO |
|----------------|-------------|-------------------|
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| | | |
|----------------------------------|---|--|
| WO 2022106870 A1 | ADVANCED BIONICS AG | Hearing outcome prediction estimator |
| WO 2022115647 A1 | STRATHSPEY CROWN LLC | Privacy controls for implanted electronics |
| WO 2022120290 A1 | ALPHA FIBER INC | System and method for detection and monitoring of impact |
| WO 2022069082 A1 | ERA OPHTHALMICA S R L | Device for retinal neuromodulation therapy and extrafoveal reading in subjects affected by visual impairment |
| WO 2022072241 A1 | OREAL | Adapter with interchangeable element for connecting makeup applicator to an external device |
| WO 2022109304 A1 | MASSACHUSETTS INST TECHNOLOGY | Systems, devices, and methods for gamma entrainment using haptic stimuli |
| WO 2022084763 A1 | COCHLEAR LTD | Shaped piezoelectric actuator for medical implant |
| WO 2022089369 A1 | SISTALK TECH BEIJING CO LTD | Method for controlling dual-motor massage apparatus on the basis of posture |
| WO 2022087748 A1 | MAKE A DIFFERENCE THROUGH INCLUSION LTD | Transparent mask and method of making the same |
| WO 2022039996 A1 | X DEV LLC | Using simulated longitudinal chromatic aberration to control myopic progression |
| WO 2022061317 A1 | CHIU DAVID T W | Facial guard system |
| WO 2022086896 A1 | WALMART APOLLO LLC | Systems and methods for touchless temperature screening system |
| WO 2022078929 A1 | AUDISENSE GMBH | Hearing prosthesis |
| WO 2022080774 A1 | UNIV YONSEI IACF | Speech disorder assessment device, method, and program |

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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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