

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 remota.

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 2023175592 A1	CORPORACION UNIV MINUTO DE DIOS UNIMINUTO	Audio-tactile device for reading numbers in the braille and arabic numeral systems
WO 2023177434 A1	MICROSOFT TECH LICENSING LLC	Group visualizations in online meetings
WO 2023170491 A1	SONY GROUP CORP	Hearing aids providing protection against sudden loud sounds
WO 2023152325 A1	BOBST MEX SA	Inspection system for braille characters
WO 2023163699 A1	HEWLETT PACKARD DEVELOPMENT CO	Display device settings sizes
WO 2023121850 A1	ADVANCED MICRO DEVICES INC	Automatic in-game subtitles and closed captions
WO 2023119202 A1	CONTENT SQUARE SAS	Providing event streams and analytics for activity on web sites
WO 2023150327 A1	META PLATFORMS TECH LLC	Smart glass interface for impaired users or users with disabilities
WO 2023142590 A1	TENCENT TECH SHENZHEN CO LTD	Sign language video generation method and apparatus, computer device, and storage medium
WO 2023150328 A1	META PLATFORMS TECH LLC	Sign language detection for smart glasses
WO 2023126887 A1	CONTENT SQUARE SAS	Missed revenue and analysis from competitor data
WO 2023154400 A1	FREEDOM SCIENTIFIC INC	Ingress protected braille display
WO 2023140397 A1	SAIDLITE INC	System for matching viewer emotion and broadcast content labeling information for hearing- and sight-impaired using artificial intelligence
WO 2023136605 A1	SAMSUNG ELECTRONICS CO LTD	Method and electronic device for intelligently reading displayed contents
WO 2023140396 A1	SAIDLITE INC	Broadcast content audio data visualization system using artificial intelligence for hearing- and sight-impaired
WO 2023131718 A1	MOORE MCCUNE MAURA	Moving object detection system for use by the visually impaired
WO 2023124573 A1	HUANG QINGCHUAN	Digital new language and input method therefor, and input tool
WO 2023130105 A1	POLTORAK ALEXANDER	Bluetooth enabled intercom with hearing aid functionality
WO 2023153033 A1	YAMAHA CORP	Information processing method, program, and information processing device
WO 2023135522 A1	COCHLEAR LTD	Inner ear access shaped devices and methods

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AYUDA A LA MOVILIDAD

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
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WO 2023161228 A1	WANDERCRAFT	Methods for training a neural network and for using said neural network to stabilize a bipedal robot
WO 2023164451 A1	ASSISTIVE TECH DEVELOPMENT INC	Biomechanical alignment verification system for an assistive medical device
WO 2023172793 A1	US GOV VETERANS AFFAIRS	Magnetic device for ambulatory gait control
WO 2023154686 A1	CONTINENTAL AUTOMOTIVE SYSTEMS INC	Handicap accessibility assistance device
WO 2023121716 A1	STRYKER CORP	Patient containment systems for use with patient transport apparatuses
WO 2023135781 A1	NEC CORP	Fall detection device, system, method, and computer-readable medium
WO 2023139537 A1	ROBOTIQUES 3 DIMENSIONS	Exoskeleton for assistance in maintaining a leaning forward posture and in straightening up
WO 2023166842 A1	CYBERDYNE INC	Manual work monitoring device and manual work monitoring method
WO 2023117816 A1	CENTRE NAT RECH SCIENT	Improved wide-field-of-view lidar
WO 2023136122 A1	RIKEN	Motion assistance apparatus and method of assisting motion
WO 2023158619 A1	HUSICK LAWRENCE	Fall prevention system
WO 2023116998 A1	UNWIRED THINGS APS	A modular system for aiding visually or cognitively impaired or blind individuals in perceiving their surroundings
WO 2023156331 A1	LIFTUP AS	Elongated ramp in lifting system for a stairway
WO 2023153453 A1	SONY GROUP CORP	Rehabilitation supporting system, information processing method, and program
WO 2023151351 A1	AI GUIDED LTD	Haptic guiding system
WO 2023163342 A1	PARK GIL HYEON	Electric stretching device
WO 2023139941 A1	CYBERDYNE INC	Function improvement support device and function improvement support method
WO 2023150175 A1	ASPEN MEDICAL PRODUCTS LLC	Orthopedic brace having telescopic lateral panels and an adjusting pulley system
WO 2023124572 A1	SHANGHAI BANGBANG ROBOTICS CO LTD	Driving assistance system and method applied to scooter for elderly person, and storage medium
WO 2023130968 A1	UNIV HONG KONG POLYTECHNIC	Knee exoskeleton device
WO 2023140881 A1	SHYR SONG TSE	Personal rehabilitation device and method for the elderly
WO 2023130860 A1	UNIV HONG KONG POLYTECHNIC	Ankle exoskeleton device
WO 2023148594 A1	COGNITIVE SYSTEMS CORP	Methods and systems for sensing service discovery in a wi-fi sensing system
WO 2023129097 A2	ATATUERK UENIVERSITESI	Smart pedestrian crossing for the visually impaired
WO 2023121393 A1	SAMSUNG ELECTRONICS CO LTD	System and method for guiding visually impaired person for walking using 3d sound point

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TELEASISTENCIA SANITARIA

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
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WO 2023175839 A1	MITSUBISHI ELECTRIC CORP	Monitoring system, server, and monitoring method
WO 2023177751 A2	ZIG THERAPEUTICS INC	Sputum image processing assembly and system, method of processing sputum contained in a sputum sample container, and method of processing a plurality of sputum samples over time
WO 2023122622 A1	MEDICAL INFORMATICS CORP	Central apnea detection
WO 2023164594 A1	ADVANCED NEUROMODULATION SYSTEMS INC	Digital health architecture including a virtual clinic for facilitating remote programming
WO 2023122302 A1	BAXTER INT	Physiological sensor patch for making complex measurements of bioimpedance
WO 2023122493 A1	BAXTER INT	Body-worn device for measuring blood flow
WO 2023163670 A1	T C ISTANBUL AYDIN UNIVERISTESI	A dental health application
WO 2023141700 A1	BRAEBON MEDICAL CORP	Wearable vital signs monitoring device
WO 2023164782 A1	SPECTRONIX INC	Harm prevention monitoring system and method
WO 2023142299 A1	GENG JUN	Self-service adjustment hearing-aid earphone having wireless test function, and adjustment method therefor
WO 2023148961 A1	NEC CORP	Disaster prevention support device, disaster prevention support system, disaster prevention support method, and recording medium
WO 2023163791 A1	PRICEWATERHOUSE COOPERS LLP	Asset tracking system using signal profiles
WO 2023132952 A1	MASIMO CORP	Wrist and finger worn pulse oximetry system
WO 2023148975 A1	CUREAPP INC	User authentication method, use authentication system, and program
WO 2023164484 A1	EMED LABS LLC	Systems and methods for at-home testing, treatment, and monitoring
WO 2023167090 A1	SOMPO CARE INC	Independence assistance method, information processing device, system, and program
WO 2023121734 A1	VEONEER US LLC	In-cabin temperature monitoring for child presence detection applications
WO 2023126340 A1	ZEISS CARL MEDITEC INC	Fluid tracking in wet amd patients using thickness change analysis
WO 2023126832 A1	PFIZER	Digital medicine companion for cdk inhibitor medications for cancer patients
WO 2023162278 A1	TOTO LTD	Excrement determination system, excrement determination method, and excrement determination device
WO 2023152316 A1	ASSA ABLOY AB	Method and guidance device for providing non-visual guidance
WO 2023158992 A1	DEXTRONIX INC	Mobile cardiac monitoring device and methods of using same
WO 2023120209 A1	NTT COMM CORP	Position search system and position search method
WO 2023145987 A1	LKS GLOBAL	Bio-monitoring and care system for care service for elderly person living alone
WO 2023130143 A1	ZEMPLEE INC	Detection of medicines and metabolites in urine
WO 2023139554 A1	ANALYTICS FOR LIFE INC	Multi-sensor mems system and machine-learned analysis method for hypertrophic cardiomyopathy estimation
WO 2023148593 A1	COGNITIVE SYSTEMS CORP	Cross-correlation of time domain signals due to motion proximity
WO 2023114717 A1	BAXTER INT	Virtual assistant/chatbot to improve clinical workflows for home renal replacement therapies
WO 2023127169 A1	DIGITAL AI CO LTD	Surveillance system and surveillance program
WO 2023146098 A1	SAMSUNG ELECTRONICS CO LTD	Monitoring device for environmental improvement, and control method therefor
WO 2023111625 A1	INDIAN INSTITUTE OF TECH MADRAS	Multimodal learning framework for activity-based carbon footprint prediction for healthcare, system, method, and computer program product
WO 2023133449 A1	OHIO STATE INNOVATION FOUNDATION	Automated systems for diagnosis and monitoring of stroke and related methods
WO 2023126728 A1	COGNITIVE SYSTEMS CORP	Methods and systems for detection of channel variations for wi-fi sensing in unobserved bandwidth

WO 2023132841 A1	POSTREL RICHARD	Improving outcomes and response times for patients in critical care settings
WO 2023130189 A1	AYORA INC	Systems and methods for generating and using medical images
WO 2023128272 A1	DONGEUN INFORMATION TECH CO LTD	System and method for providing security-enhanced websocket-based real-time non-contact medicine service
WO 2023129754 A1	NAM KIYEON	System and method for on-demand care service
WO 2023150575 A2	UNIV GEORGE WASHINGTON	Cyber-physical system to enhance usability and quality of telehealth consultation

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OTRAS REFERENCIAS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
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WO 2023117417 A1	INVENTIO AG	Safety locking device for a shaft door of an elevator and method for opening a shaft door of an elevator using a safety locking device
WO 2023158380 A2	UNIV NANYANG TECH	Strain hardening cementitious composite, method of preparing, and use thereof in tactile indicator
WO 2023139417 A1	BOSCH CAR MULTIMEDIA PORTUGAL S A	Intelligent door system for autonomous vehicles
WO 2023126263 A1	H P BRAEM AG	Disposable phaco handpiece
WO 2023148664 A1	MATERIEL POUR LARBORICULTURE FRUITIERE	Device for assisting with threading the eye of a needle
WO 2023110139 A1	SES IMAGOTAG GMBH	Device for aiding visually impaired or blind persons while shopping
WO 2023154378 A1	ACTIPULSE NEUROSCIENCE INC	Substance use disorder prevention or treatment with low intensity and high frequency magnetic stimulation
WO 2023163953 A1	TRUE DIAGNOSTICS	Dried blood sample collection device
WO 2023139411 A1	KOWKABZADEH FARZAD	Detection device of causing bad human breath for diagnosis and monitoring
WO 2023141465 A1	ICARES MEDICUS INC	Preloaded intraocular lens injector and method of use thereof

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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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