

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 2019164039 | YANG EUN HYE | Violin comprising arduino board |
| WO 2019113669 | CHECCHINATO GABRIEL GELLI | System and method for autonomous filling of receptacles |
| WO 2019117461 | CHO DON WOO | Braille generation device and control method thereof |
| WO 2019113868 | UNIV TSINGHUA | Ear-based human-computer interaction technology for interaction with touch surface device |
| WO 2019125448 | GOOGLE LLC | Tonal palette generation |
| WO 2019168026 | IMATEC INC | Support system and support method |
| WO 2019143843 | TWENTIETH CENT FOX FILM CORP | Sign language video encoding for digital cinema |
| WO 2019144196 | PSYKINETIC PTY LTD | Eye-typing method, system and computer readable medium |
| WO 2019138186 | ESTHESIX | Improved device and method for communicating sound information to a user in augmented reality |
| WO 2019162718 | MU TOYS SPA | Multiple-interaction musical instrument |
| WO 2019138423 | KUMAR GARG ANUPAM | Direct braille slate with slate base, slate frame and line guide unit |
| WO 2019141922 | FEEOBJECT | Audio mobility map |
| WO 2019147138 | ARONSEN ALV BIRGER | Device for the reduction of dyslexia |
| WO 2019149333 | SHEHA SAMAH IBRAHIM EMARA EL SAID | Sewing machine for visually impaired people |
| WO 2019158715 | WORLDLINE | Device and method for identifying a user |

[...ver más](#)

AYUDA A LA MOVILIDAD

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

| | | |
|-------------------------------|--|---|
| WO 2019127326 | SICHUAN GOLDEN RIDGE INTELLIGENCE SCIENCE & TECH CO LTD | Smart wheelchair sensing and adjustment apparatus and method |
| WO 2019132108 | INDUSTRY ACADEMIC COOPERATION FOUNDATION JEONNAM STATE UNIV | Walking aid apparatus for elderly and infirm |
| WO 2019160203 | LG ELECTRONICS INC | Complex multifunctional support device |
| WO 2019160206 | LG ELECTRONICS INC | Multifunctional complex support apparatus |
| WO 2019123374 | SCUOLA SUPERIORE DI STUDI UNIV E DI PERFEZIONAMENTO SANTANNA | Wearable robot with perfected control architecture |
| WO 2019127277 | SICHUAN GOLDEN RIDGE INTELLIGENCE SCIENCE & TECH CO LTD | Intelligent wheelchair with workbench |
| WO 2019117389 | PARKEUIJI | Prosthetic foot |
| WO 2019127261 | SICHUAN GOLDEN RIDGE INTELLIGENCE SCIENCE & TECH CO LTD | Method for automatic driving of smart wheelchair, system and computer readable medium |
| WO 2019127258 | SICHUAN GOLDEN RIDGE INTELLIGENCE SCIENCE & TECH CO LTD | Wheelchair and control method therefor |
| WO 2019135059 | IZOME | Boot comprising an accelerometer, assembly and corresponding fall detection method |
| WO 2019129856 | SAFRAN ELECTRONICS & DEFENSE | Exoskeleton structure |
| WO 2019129563 | OTTO BOCK HEALTHCARE PRODUCTS GMBH | Orthopaedic technical device and method for controlling same |
| WO 2019160205 | LG ELECTRONICS INC | Complex multifunctional support device having bidirectional handle structure |
| WO 2019119014 | TOBRUK ENG PTY LTD | Mobile patient support chair |
| WO 2019129855 | SAFRAN ELECTRONICS & DEFENSE | Exoskeleton structure |
| WO 2019132692 | OBSHCHESTVO S OGRANICHENNOJ OTVETSTVENNOSTY U BI ON EMG | Method and system for controlling electronic devices with the aid of an electromyographic reading device |
| WO 2019127301 | SICHUAN GOLDEN RIDGE INTELLIGENCE SCIENCE & TECH CO LTD | Remote control method and system based on intelligent wheelchair |
| WO 2019117357 | OPUS ONE INC | Method for detecting state of smart walking stick, and apparatus therefor |
| WO 2019123622 | NIKON CORP | Guiding device |
| WO 2019160204 | LG ELECTRONICS INC | Complex multifunctional support device |
| WO 2019160532 | PARKER HANNIFIN CORP | Structural integration and enhanced control of functional electrical stimulation in an exoskeleton device |

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|-------------------------------|---|--|
| WO 2019143301 | SINGAPORE HEALTH SERV PTE LTD | A personal transportation apparatus |
| WO 2019156698 | PARKER HANNIFIN CORP | Advanced gait control system and methods enabling continued walking motion of a powered exoskeleton device |
| WO 2019161232 | HARVARD COLLEGE | Wearable devices for protecting against musculoskeletal injuries and enhancing performance |
| WO 2019138187 | ESTHESIX | Improved method and device for indicating a bearing c to a user |
| WO 2019165376 | LOCKHEED CORP | Padded and prewired exoskeleton harness |
| WO 2019137812 | COMMISSARIAT ENERGIE ATOMIQUE | Reversible actuator with two non-synchronised axes with a single motor |
| WO 2019120760 | COMMISSARIAT ENERGIE ATOMIQUE | Reversible actuator with two non-synchronised axes with a single motor |
| WO 2019154911 | ECOLE POLYTECHNIQUE FED DE LAUSANNE | System for personalized robotic therapy and related methods |
| WO 2019146868 | WONKWANG UNIV CENTER FOR INDUSTRY ACADEMY COOPERATION | Hand rehabilitation device |
| WO 2019148275 | BIONIC POWER INC | Exoskeletal gait rehabilitation device |
| WO 2019157511 | CROSBY KELVIN | Robotic sighted guiding system |
| WO 2019164142 | LG ELECTRONICS INC | Muscular strength assisting device comprising foot unit for free ankle movement |
| WO 2019164349 | LG ELECTRONICS INC | Wearable assistive device that efficiently delivers assistive force |

[...ver más](#)

TELEASISTENCIA SANITARIA

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

| | | |
|-------------------------------|---|--|
| WO 2019172503 | UNIV KOREA RES & BUS FOUND | Device for visual field defect evaluation via eye tracking, method for visual field defect evaluation using same, and computer-readable storage medium |
| WO 2019160318 | SAMSUNG ELECTRONICS CO LTD | Electronic device for providing health information based on biometric data, and control method therefor |
| WO 2019129936 | JANASENSE | System for monitoring the state of health of a person, and corresponding monitoring method |
| WO 2019129443 | NOKIA TECHNOLOGIES OY | Intra-body communication apparatus and method |
| WO 2019160180 | KANG YU KWANG | Welfare facility user control system |
| WO 2019127249 | SICHUAN GOLDEN RIDGE INTELLIGENCE SCIENCE & TECH CO LTD | Intelligent wheelchair system for use in monitoring physiological information |
| WO 2019169277 | THE US GOV AS REPRESENTED BY THE UNITED STATES DEPARTMENT OF VETERANS AFFAIRS | Devices and systems for treatment of urinary incontinence, and methods of making and using same |
| WO 2019144025 | HRL LAB LLC | Neuro-adaptive body sensing for user states framework (nabsus) |
| WO 2019142566 | KONICA MINOLTA INC | Monitored person monitoring support system and monitored person monitoring support method |
| WO 2019152515 | WALMART APOLLO LLC | System and method for prescription security and authentication |
| WO 2019142504 | KONICA MINOLTA INC | Monitoring record creation assisting system and monitoring record creation assistant method |
| WO 2019147257 | HITACHI HIGH TECH SOLUTIONS CORP | Controlling devices to achieve medical outcomes |
| WO 2019155568 | LEIS CO LTD | Personal data application and personal data application control method |
| WO 2019146341 | PANASONIC IP MAN CO LTD | Activity assistance method, program, and activity assistance system |

[..ver más](#)

OTRAS REFERENCIAS

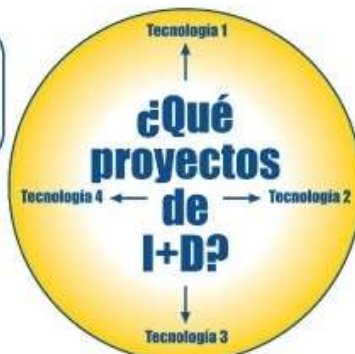
| Nº PUBLICACIÓN | SOLICITANTE | CONTENIDO TÉCNICO |
|----------------|-------------|-------------------|
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|-------------------------------|---|---|
| WO 2019166696 | MAEHAENIEMI JANNE | Locking device to prevent opening of a door/doors |
| WO 2019122095 | ROCHE DIABETES CARE GMBH | Medical system and method of manufacturing thereof |
| WO 2019123232 | AESYRA SA | Devices and method for bruxism management |
| WO 2019135263 | MADANAT SAHAR | Partitioned tableware |
| WO 2019165280 | VEYEZER LLC | Holographic real space refractive sequence |
| WO 2019140571 | INNOVATIVE PREC INSTRUMENTS LIMITED | Electronic tuning fork device |
| WO 2019141696 | KONINKLIJKE PHILIPS NV | Detecting recurrence of a medical condition |
| WO 2019143003 | SAMSUNG MEDISON CO LTD | Ultrasound imaging apparatus and method of controlling the same |
| WO 2019150333 | SENSORIUMLAB SP Z O O | A method of measuring pleural effusion |
| WO 2019152296 | INSTITUTE FOR CANCER RES D/B/A THE RES INSTITUTE OF FOX CHASE CANCER CENTER | Multipurpose device |
| WO 2019156871 | LONJEV INC | Apparatus for assisting individuals taking showers |

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Los ITPs** de la OEPM nos proporcionan información imprescindible para decidir la priorización óptima de proyectos de I+D en los que invertir.



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.



* La OEPM cuenta con más de 150 examinadores de patentes especializados en los diversos sectores tecnológicos y en la búsqueda de información científico-técnica.

** Los Informes Tecnológicos de Patentes o ITPs son estudios a la medida que incluyen una búsqueda de patentes y de literatura científica con un análisis en profundidad de los documentos más relevantes. Su coste es de 440 euros más IVA.