

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
<a href="#">WO 2020193587 A1</a>	CAYLAR	Tactile communication device, tactile communication system and method integrating this device
<a href="#">WO 2020193123 A1</a>	VOLKSWAGEN AG	Method for providing voice control in sign language in a voice control system for a vehicle
<a href="#">WO 2020215141 A1</a>	UNICAMP	Braille cell and braille communication device including the cell
<a href="#">WO 2020196637 A1</a>	QD LASER INC	Image relay device and image projection system
<a href="#">WO 2020212544 A1</a>	SIEMENS MOBILITY GMBH	Voice control in sanitary areas
<a href="#">WO 2020186104 A1</a>	STEVENS PETER	Haptic and visual communication system for the hearing impaired
<a href="#">WO 2020217605 A1</a>	SOCIONEXT INC	Audio processing device
<a href="#">WO 2020218694 A1</a>	UNIV SOOKMYUNG WOMENS IND ACAD COOP FOUND	Method for providing special text included in electronic document for visually impaired, and electronic device therefor
<a href="#">WO 2020214956 A1</a>	STARKEY LABS INC	Hearing assessment using a hearing instrument
<a href="#">WO 2020205671 A1</a>	UNIV MICHIGAN REGENTS	Peripersonal boundary-based augmented reality game environment
<a href="#">WO 2020193994 A1</a>	VIRTUAL REALITY EMPATHY PLATFORM LTD	Simulation of visual impairment
<a href="#">WO 2020242705 A1</a>	MICROSOFT TECHNOLOGY LICENSING LLC	Identification of logical starting location for screen reader
<a href="#">WO 2020222252 A1</a>	INDIAN INST TECH MADRAS	Method of constructing hybrid tactile display
<a href="#">WO 2020247086 A1</a>	MICROSOFT TECHNOLOGY LICENSING LLC	Detection of layout table(s) by a screen reader
<a href="#">WO 2020215128 A1</a>	AACAPELLA HOLDINGS PTY LTD	Augmentative and Alternative Communication (ACC) Reading System
<a href="#">WO 2020245791 A1</a>	TESMAN RD S R L S	Orientation aid system for blind people
<a href="#">WO 2020249903 A1</a>	QUINTARD DAMIEN	Sensory vibratory system
<a href="#">WO 2020231539 A1</a>	MICROSOFT TECHNOLOGY LICENSING LLC	Application with self-configuring accessibility settings
<a href="#">WO 2020244868 A1</a>	HUGON BERNARD	Improved audiometry booth
<a href="#">WO 2020236349 A1</a>	MICROSOFT TECHNOLOGY LICENSING LLC	Providing contextually relevant information for ambiguous link(s)
<a href="#">WO 2020235153 A1</a>	TOKAI RIKI CO LTD	Control device and presentation system
<a href="#">WO 2020224743 A1</a>	VESTEL ELEKTRONIK SANAYI VE TICARET A S	Device and method for providing haptic feedback to a user
<a href="#">WO 2020219371 A1</a>	CHANG EDWARD F	Methods of generating speech using articulatory physiology and systems for practicing the same
<a href="#">WO 2020249787 A1</a>	BANKS AND ACQUIRERS INT HOLDING	Method for assisting the use of an electronic transaction device
<a href="#">WO 2020236103 A1</a>	ATATUERK UENIVERSITESI BILIMSEL ARASTIRMA PROJELERI BIRIMI	A system and a method for speech tracking for hearing impaired individuals
<a href="#">WO 2020245098 A1</a>	ORANGE	Method for controlling a computer device
<a href="#">WO 2020227759 A1</a>	COMMW SCIENT IND RES ORG	Single image contrast
<a href="#">WO 2020227774 A1</a>	SYNCHRON AUSTRALIA PTY LTD	Systems and methods for generic control using a neural signal

[WO 2020236097 A2](#)

BAK AMBALAJ SANAYI  
VE TICARET A S

A flexible package providing identification by means of  
braille

[...ver más](#)

## AYUDA A LA MOVILIDAD

### Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

<a href="#">WO 2020219712 A1</a>	OSSUR ICELAND EHF	Locking and adjustment mechanism for exoskeleton
<a href="#">WO 2020195447 A1</a>	SUNCALL CORP	Walking motion assistance device
<a href="#">WO 2020195371 A1</a>	NEC CORP	Insole-type electronic device and method for manufacturing insole-type electronic device
<a href="#">WO 2020209880 A1</a>	PARKER HANNIFIN CORP	Magnetically coupled power system for a powered mobility assistance device including fast swap battery
<a href="#">WO 2020218349 A1</a>	NEC CORP	Mobility support system for people with disabilities, tool, and method
<a href="#">WO 2020183049 A1</a>	UNIV MIGUEL HERNANDEZ DE ELCHE	Wearable robotised system for controlling movements of the wrist and forearm
<a href="#">WO 2020217191 A1</a>	IUVO S R L	System for assisting an operator in exerting efforts
<a href="#">WO 2020193571 A1</a>	CENTRE NAT RECH SCIENT	Device for controlling a robotic system for assisting the mobility of a user
<a href="#">WO 2020178375 A1</a>	NOVAPACE GMBH	Method and device for identifying a motion pattern of a person
<a href="#">WO 2020246667 A1</a>	UNIV INDUSTRY FOUNDATION YONSEI UNIV WONJU CAMPUS	Fall detection device and method
<a href="#">WO 2020211990 A1</a>	DREAMWAVES GMBH	Computer implemented method for guiding traffic participants
<a href="#">WO 2020245038 A1</a>	MILANO POLITECNICO	Load compensation device, in particular of gravitational loads, applicable to exoskeletons
<a href="#">WO 2020245991 A1</a>	MAXELL LTD	Road guidance system and mobile information terminal used in same
<a href="#">WO 2020225114 A1</a>	FM FRANCE SAS	Non-motorized physical-assistance device of exoskeleton type for manually transporting loads
<a href="#">WO 2020239748 A1</a>	COMMISSARIAT ENERGIE ATOMIQUE	Lower limb of an exoskeleton
<a href="#">WO 2020196988 A1</a>	KOREA LABOR WELFARE CORP CO LTD	Thumb-based hand motion control system for myoelectric hand and control method thereof
<a href="#">WO 2020242282 A1</a>	UVM EDUCACION S C	Walking frame for patients with psychomotor retardation
<a href="#">WO 2020242728 A1</a>	PARKER HANNIFIN CORP	Electromagnetic brake for powered mobility assistance device
<a href="#">WO 2020246587 A1</a>	ADVANCED TELECOMMUNICATIONS RES INSTITUTE INTERNATIONAL	Body weight load reduction device
<a href="#">WO 2020245681 A1</a>	3M INNOVATIVE PROPERTIES CO	Systems and methods for assessment of haptic perception impairments and motor control abnormalities
<a href="#">WO 2020234184 A1</a>	IMP COLLEGE INNOVATIONS LTD	System for movement control
<a href="#">WO 2020231344 A1</a>	NAT UNIV SINGAPORE	An actuator array and an exoskeleton having the same
<a href="#">WO 2020230727 A1</a>	JTEKT CORP	Distribution system
<a href="#">WO 2020219701 A1</a>	WARSAW ORTHOPEDIC INC	Reconfigurable pelvic support for surgical frame and method for use thereof
<a href="#">WO 2020243366 A1</a>	UNIV VANDERBILT	Moment arm extension system for exosuit
<a href="#">WO 2020247826 A1</a>	CLMBR1 LLC	Climbing exercise machine
<a href="#">WO 2020222938 A1</a>	VIRGINIA TECH INTELLECTUAL PROPERTIES INC	Gravity compensation mechanisms and methods
<a href="#">WO 2020220137 A1</a>	MAWASHI PROTECTIVE CLOTHING INC	Body weight support system for exoskeletons and method of using the same
<a href="#">WO 2020230334 A1</a>	NIPPON TELEGRAPH & TELEPHONE	Submission information reliability determination device, submission information reliability determination method, and submission information reliability determination program
<a href="#">WO 2020234957 A1</a>	NIPPON TELEGRAPH & TELEPHONE	Rehabilitation assistance system and rehabilitation assistance method

[...ver más](#)

## TELEASISTENCIA SANITARIA

### Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
<a href="#">WO 2020218708 A1</a>	NEOFECT CO LTD	Method for encrypting and decrypting prescription information for providing home rehabilitation service, and doctor terminal
<a href="#">WO 2020218707 A1</a>	NEOFECT CO LTD	Method and system for providing home rehabilitation service linked with rehabilitation device
<a href="#">WO 2020201969 A1</a>	UNIV HEALTH NETWORK	System and method for remote patient monitoring
<a href="#">WO 2020210671 A1</a>	MEDICATION ADHERENCE TECH LLC	System and method for tracking and regulating removal of patient medications
<a href="#">WO 2020203223 A1</a>	PHC HOLDINGS CORP	Biometric information measurement device and biometric information measurement method
<a href="#">WO 2020197990 A1</a>	NEPHRON PHARMACEUTICALS CORP	Blockchain systems and methods for remote monitoring
<a href="#">WO 2020191267 A1</a>	DIGITAL MEDICAL TECH LLC D/B/A ADHERETECH	Smart containers, sensors, and methods for medication management
<a href="#">WO 2020218409 A1</a>	CROSSEGE LABORATORY INC	Thermosensitive imaging device, watching and monitoring system using thermosensitive imaging device, and watching and monitoring method using thermosensitive imaging device
<a href="#">WO 2020191292 A1</a>	UNIV WASHINGTON	Systems and methods for measurement of retinal acuity
<a href="#">WO 2020209066 A1</a>	KONICA MINOLTA INC	Method for displaying information, program, and information processing device
<a href="#">WO 2020246291 A1</a>	SONY CORP	Communication device and method
<a href="#">WO 2020207649 A2</a>	COWHILL STUDIO BV VOF	An elderly care and security system
<a href="#">WO 2020226182 A1</a>	TEIJIN PHARMA LTD	Breathing state detection apparatus, breathing state detection method, and breathing state detection program
<a href="#">WO 2020208291 A1</a>	OTOMETRI OY	Multimodal measuring and tracking of middle ear otitis by artificial intelligence
<a href="#">WO 2020186230 A1</a>	EYELAB LLC	Systems, devices, and methods of determining data associated with a person's eyes
<a href="#">WO 2020234604 A1</a>	CEFTRONICS LTD	Wearable device for recording headache intensity and medication
<a href="#">WO 2020181337 A1</a>	C RAFIN & CO PTY LTD	An integrated health and security management system
<a href="#">WO 2020234331 A1</a>	KONINKLIJKE PHILIPS NV	Systems and methods for delivering appointment reminders via a personal or medical care device
<a href="#">WO 2020241021 A1</a>	KONICA MINOLTA INC	Care management method, program, care management device, and care management system
<a href="#">WO 2020202042 A1</a>	DVIR YOSSI	Personal wearable medical emergency device

[..ver más](#)

## OTRAS REFERENCIAS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
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<a href="#">WO 2020240258 A1</a>	TOMASOV VIKTOR	Compact device for non-invasive measurement of markers in physiological fluids
<a href="#">WO 2020195165 A1</a>	PANASONIC IP MAN CO LTD	Cognitive function testing method, program, and cognitive function testing system
<a href="#">WO 2020225899 A1</a>	NIPPON TELEGRAPH & TELEPHONE	Exhibition assistance device, exhibition assistance system, exhibition assistance method, and program
<a href="#">WO 2020195164 A1</a>	PANASONIC IP MAN CO LTD	Cognitive function testing method, program, and cognitive function testing system
<a href="#">WO 2020230003 A1</a>	INST NAT SANTE RECH MED	Method for setting parameters of a neurostimulation device and associated devices
<a href="#">WO 2020232213 A1</a>	VERILY LIFE SCIENCES LLC	Non-gravitational fluid delivery device for ophthalmic applications
<a href="#">WO 2020252428 A1</a>	UNIV COLUMBIA	Methods and devices for improving sensory perception by tonic vagus nerve stimulation
<a href="#">WO 2020209414 A1</a>	EVER INFORMATION TECH CO LTD	Face recognition-based smart dispenser using image sensor
<a href="#">WO 2020232290 A1</a>	KRAMER KARL JOSEF	Toilet device with enhanced control and support functions

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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.



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