

# Boletín VT

## SERVICIOS E INTERFACES AVANZADOS MÓVILES

2.º trimestre 2021

# 46

Vigilancia Tecnológica

Las nuevas tecnologías de comunicaciones móviles están constituyendo un pilar fundamental en el desarrollo de la nueva Sociedad de la Información y del Conocimiento, ofreciendo, a través de potentes terminales portátiles inalámbricos, un acceso cómodo, instantáneo y seguro a multitud de servicios y contenidos de gran interés tanto para empresas como para individuos en particular.

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 de comunicaciones móviles, en relación con algunos de los aspectos que mayor incidencia tienen sobre el usuario final, tal como son las nuevas interfaces de operación de dispositivos móviles (pantallas táctiles, menús intuitivos, control por voz,

teclados integrados), o los nuevos servicios avanzados relativos a la comunicación e integración de redes sociales, los servicios de pago electrónico mediante dispositivos móviles, los servicios que se prestan en función de la posición y localización de los usuarios o los servicios de difusión de televisión hacia terminales móviles.

De este modo, el boletín, de periodicidad trimestral, recogerá las publicaciones más recientes de solicitudes internacionales de patente (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:

- Interfaces móviles
- Servicios móviles avanzados
  - Redes sociales
  - Pagos electrónicos mediante terminales móviles
  - Basados en la localización
  - Televisión móvil
- Otras referencias

NIPO: 116-19-021-9

## 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.

### INTERFACES MÓVILES

| Nº PUBLICACIÓN                   | SOLICITANTE                                | CONTENIDO TÉCNICO  |
|----------------------------------|--|--|
| <a href="#">WO 2021099512 A1</a> | EMBODME                                    | System for generating a signal based on a touch command and on an optical command                              |
| <a href="#">WO 2021104315 A1</a> | ONEPLUS TECH SHENZHEN CO LTD               | Photographed image sharing method and apparatus, and mobile terminal and readable storage medium               |
| <a href="#">WO 2021101644 A1</a> | FACEBOOK TECH LLC                          | Artificial reality system with virtual wireless channels   |
| <a href="#">WO 2021104008 A1</a> | HUAWEI TECH CO LTD                         | Method for displaying folding screen and related apparatus   |
| <a href="#">WO 2021118532 A1</a> | ROVI GUIDES INC                            | Systems and methods for interpreting a voice query   |
| <a href="#">WO 2021072081 A1</a> | ZYNGA INC                                  | Touchscreen game user interface  |
| <a href="#">WO 2021075760 A1</a> | SAMSUNG ELECTRONICS CO LTD                 | Method and electronic device for creating toggled application icon   |
| <a href="#">WO 2021050872 A1</a> | SAVANT SYSTEMS INC                         | Three dimensional virtual room-based user interface for a home automation system                               |
| <a href="#">WO 2021078620 A1</a> | HALLO WELT SYSTEME UG HAFTUNGSBESCHR AENKT | Graphical user interface (gui) for a mobile electronic device comprising a touch-sensitive display             |
| <a href="#">WO 2021080797 A1</a> | MICROSOFT TECHNOLOGY LICENSING LLC         | Status indicators for communicating user activity across digital contexts                                      |
| <a href="#">WO 2021066924 A1</a> | MICROSOFT TECHNOLOGY LICENSING LLC         | Calling on a multi-display device  |
| <a href="#">WO 2021076383 A1</a> | MICROSOFT TECHNOLOGY LICENSING LLC         | Adaptive assistive technology techniques for computing devices   |
| <a href="#">WO 2021055105 A1</a> | APPLE INC                                  | Mobile device navigation system  |
| <a href="#">WO 2021084653 A1</a> | IMATRIX HOLDINGS CORP                      | Eye contact detection device   |
| <a href="#">WO 2021067107 A1</a> | CITRIX SYSTEMS INC                         | Systems and methods for intelligent application instantiation  |
| <a href="#">WO 2021107955 A1</a> | HEWLETT PACKARD DEVELOPMENT CO             | Providing inputs to computing devices  |
| <a href="#">WO 2021112631 A1</a> | SAMSUNG ELECTRONICS CO LTD                 | Device, method, and program for enhancing output content through iterative generation                          |
| <a href="#">WO 2021061249 A1</a> | APPLE INC                                  | Finger-wearable input assembly for controlling an electronic device  |
| <a href="#">WO 2021089909 A1</a> | VARJO TECH OY                              | System and method for presenting notifications on head-mounted display device and external computing device    |
| <a href="#">WO 2021073183 A1</a> | HUAWEI TECH CO LTD                         | Always on display method and mobile device   |
| <a href="#">WO 2021063237 A1</a> | HUAWEI TECH CO LTD                         | Control method for electronic device, and electronic device  |
| <a href="#">WO 2021099796 A1</a> | TECH 21 LICENSING LTD                      | A case assembly for a mobile electronic device with a screen   |
| <a href="#">WO 2021060391 A1</a> | TRADFIT CO LTD                             | Information providing method, information providing system, information providing device, and computer program |
| <a href="#">WO 2021061722 A1</a> | AMAZON TECH INC                            | Account association with device  |
| <a href="#">WO 2021062148 A1</a> | APPLE INC                                  | Devices, methods, and graphical user interfaces for interacting with three-dimensional environments            |
| <a href="#">WO 2021084329 A1</a> | LAVY DROR                                  | Systems and methods for calendar and tasks management user interface   |

|                                  |                                       |  |
|----------------------------------|---------------------------------------|--|
| <a href="#">WO 2021075674 A1</a> | SAMSUNG ELECTRONICS CO LTD            | Electronic device and control method therefor  |
| <a href="#">WO 2021075910 A1</a> | SAMSUNG ELECTRONICS CO LTD            | Electronic device and method for operating screen capturing by electronic device                                   |
| <a href="#">WO 2021081710 A1</a> | SHENZHEN HEYTAP TECH CORP LTD         | Vibration driving method and apparatus, and electronic device and computer readable medium                         |
| <a href="#">WO 2021075786 A1</a> | SAMSUNG ELECTRONICS CO LTD            | Electronic device and method of processing pop-up window using multi-window thereof                                |
| <a href="#">WO 2021054784 A1</a> | SAMSUNG ELECTRONICS CO LTD            | Electronic device and method for changing user interface according to user input                                   |
| <a href="#">WO 2021091889 A1</a> | MICRON TECHNOLOGY INC                 | Rendering enhancement based in part on eye tracking  |
| <a href="#">WO 2021071124 A1</a> | SAMSUNG ELECTRONICS CO LTD            | Electronic device with improved visibility of user interface   |
| <a href="#">WO 2021067048 A1</a> | MICROSOFT TECHNOLOGY LICENSING LLC    | Transitions and optimizations for a foldable computing device operating in a productivity mode                     |
| <a href="#">WO 2021054794 A1</a> | SAMSUNG ELECTRONICS CO LTD            | Electronic device and screen capturing method thereof  |
| <a href="#">WO 2021063221 A1</a> | HUAWEI TECH CO LTD                    | Display method for electronic device, electronic device and computer readable storage medium                       |
| <a href="#">WO 2021057738 A1</a> | BEIJING BYTEDANCE NETWORK TECH CO LTD | User interface presentation method and apparatus, computer-readable medium and electronic device                   |
| <a href="#">WO 2021086598 A1</a> | MICROSOFT TECHNOLOGY LICENSING LLC    | Unified interfaces for paired user computing devices   |
| <a href="#">WO 2021052035 A1</a> | HUAWEI TECH CO LTD                    | Display method for side region of screen, and electronic apparatus   |
| <a href="#">WO 2021081522 A1</a> | IQZONE INC                            | Activity-backed overlay display during inactive period   |
| <a href="#">WO 2021060819 A1</a> | SAMSUNG ELECTRONICS CO LTD            | Foldable electronic apparatus for processing sensor data on basis of change in angle, and operation method thereof |
| <a href="#">WO 2021060682 A1</a> | SAMSUNG ELECTRONICS CO LTD            | Electronic device having moving means, and operating method therefor   |
| <a href="#">WO 2021061846 A1</a> | SENTONS INC                           | User interface provided based on touch input sensors   |
| <a href="#">WO 2021077621 A1</a> | BEIJING XIAOMI MOBILE SOFTWARE CO LTD | Screen display apparatus, screen display control method, screen display control apparatus, and storage medium      |
| <a href="#">WO 2021054809 A1</a> | SAMSUNG ELECTRONICS CO LTD            | Method and system for generating dynamic user interface layout for an electronic device                            |
| <a href="#">WO 2021080360 A1</a> | SAMSUNG ELECTRONICS CO LTD            | Electronic device and method for controlling display operation thereof   |
| <a href="#">WO 2021085850 A1</a> | SAMSUNG ELECTRONICS CO LTD            | Electronic device sharing peripheral device with external electronic device and method thereof                     |

[...ver más](#)

# SERVICIOS MÓVILES AVANZADOS

## REDES SOCIALES

| Nº PUBLICACIÓN                   | SOLICITANTE                | CONTENIDO TÉCNICO  |
|----------------------------------|----------------------------|--|
| <a href="#">WO 2021112517 A1</a> | SAMSUNG ELECTRONICS CO LTD | Method and electronic device for description parameter based modification of images                                    |
| <a href="#">WO 2021119378 A1</a> | THATS MY BEST FRIEND LLC   | Methods, devices, and systems for building on-line friendships   |
| <a href="#">WO 2021101760 A1</a> | BERINGER ROBERT JAMES      | Image capture eyepiece   |
| <a href="#">WO 2021118710 A1</a> | FACEBOOK INC               | System and method for adding virtual audio stickers to videos  |
| <a href="#">WO 2021077043 A1</a> | FACEBOOK INC               | Generating proactive content for assistant systems   |
| <a href="#">WO 2021067414 A1</a> | POPL CO                    | Method and device for sharing social media profile   |
| <a href="#">WO 2021113550 A1</a> | CLICK THERAPEUTICS INC     | Apparatus, system, and method for determining demographic information to facilitate mobile application user engagement |
| <a href="#">WO 2021061579 A1</a> | TICHY GREGORY              | Computerized point of sale integration platform  |
| <a href="#">WO 2021096798 A1</a> | CISCO TECH INC             | Domain name system as an authoritative source for multipath mobility policy  |
| <a href="#">WO 2021096387 A1</a> | KRYUKOV SERGEJ OLEGOVICH   | Method for organizing a social network for each event in a calendar of a mobile application for telephones             |
| <a href="#">WO 2021074933 A1</a> | KAKUMANU SARATH            | Sending or receiving sms by internet messaging application without using internet                                      |
| <a href="#">WO 2021055480 A1</a> | TOKKI LLC                  | System and method for social networking among users of a reusable item   |

[...ver más](#)

## PAGOS ELECTRÓNICOS MEDIANTE TERMINALES MÓVILES

| Nº PUBLICACIÓN                   | SOLICITANTE   | CONTENIDO TÉCNICO  |
|----------------------------------|---|--|
| <a href="#">WO 2021117712 A1</a> | FUJI ELECTRIC CO LTD  | Vending machine and vending machine payment method   |
| <a href="#">WO 2021111635 A1</a> | AQUABIT SPIRALS INC   | Service provision system, service provision server, and service provision method   |
| <a href="#">WO 2021074835 A1</a> | MAGO S A  | Shopping trolley for self-service shopping   |
| <a href="#">WO 2021074226 A1</a> | ING BANK N V  | Methods of operating a distributed database, network, nodes, computer program product and data carrier suitable for such methods |
| <a href="#">WO 2021102605 A1</a> | JIANSHI JINGGANGSHAN DEV ZONE JINLULING ECONOMIC AND DEV CO LTD | Method for processing payment information  |
| <a href="#">WO 2021064182 A1</a> | UNIV BELFAST  | Computer-implemented transaction system and method   |
| <a href="#">WO 2021079165 A1</a> | LINXENS HOLDING   | Rfid device having an antenna with increased weight  |
| <a href="#">WO 2021119440 A1</a> | AMAZON TECH INC   | Customized retail environments   |
| <a href="#">WO 2021107751 A1</a> | IDEAR ELECTRONICA S A DE C V                                    | Electronic money box with double-validation mechanisms and nfc readers, for fare payment aboard buses                            |
| <a href="#">WO 2021094125 A1</a> | KONINKLIJKE PHILIPS NV  | Device and method for secure communication   |
| <a href="#">WO 2021079767 A1</a> | NEC CORP  | Purchase management system, server device, purchase management method, and recording medium                                      |
| <a href="#">WO 2021116625 A1</a> | BANKS AND ACQUIRERS INT HOLDING                                 | Method and system, device and payment terminal using personal data   |
| <a href="#">WO 2021118273 A1</a> | SAMSUNG ELECTRONICS CO LTD                                      | Electronic device and method for processing writing input  |
| <a href="#">WO 2021076677 A1</a> | CARPENTER ROY E IV  | Personalized video calls   |
| <a href="#">WO 2021105245 A1</a> | BANKS AND ACQUIRERS INT HOLDING                                 | Method of communication between two sub-systems constituting a modular payment terminal  |
| <a href="#">WO 2021118447 A1</a> | TRUST ANCHOR GROUP IPR AB                                       | Method for performing an offline transaction   |
| <a href="#">WO 2021072283 A1</a> | JCM AMERICAN CORP   | Transaction methods for mobile wallet operations in a gaming environment   |
| <a href="#">WO 2021097446 A1</a> | HORUS FOSTER INC  | Anonymous peer-to-peer payment system  |
| <a href="#">WO 2021089398 A1</a> | THALES DIS FRANCE SA  | Method and system for communication between a chip card reader and an external device  |
| <a href="#">WO 2021096003 A1</a> | SHINHAN CARD CO LTD   | Mobile terminal for soundwave payment, magnetic field conversion device, and soundwave payment system                            |
| <a href="#">WO 2021076829 A1</a> | MASTERCARD INTERNATIONAL INC                                    | Methods and systems for provisioning consumer payment credentials to token requestors  |
| <a href="#">WO 2021042197 A1</a> | JOINT STOCK COMPANY BISMART                                     | Method for payment transaction execution using customer's mobile device  |
| <a href="#">WO 2021053859 A1</a> | BUSINESS LINK INC   | Basic salary calculation program   |
| <a href="#">WO 2021105815 A1</a> | TAMBOLI MUDASSAR BASHIR   | Point of sale device and method to operate the same  |
| <a href="#">WO 2021101438 A1</a> | WHALESAVE PTE LTD   | A rebate system for generating a rebate value and a method thereof   |
| <a href="#">WO 2021061671 A1</a> | APPLE INC   | Magnetic alignment systems for electronic devices  |
| <a href="#">WO 2021065282 A1</a> | FELICA NETWORKS INC   | Information processing device, information processing system, information processing method, and program                         |
| <a href="#">WO 2021100345 A1</a> | NTT DOCOMO INC  | Authorization device   |
| <a href="#">WO 2021112824 A1</a> | GOOGLE LLC  | Methods, systems, and media for presenting media content items using multiple devices  |
| <a href="#">WO 2021095706 A1</a> | GLORY KOGYO KK  | Cash receiving system and cash receiving method  |
| <a href="#">WO 2021067341 A1</a> | MASTERCARD INTERNATIONAL INC                                    | Device-based transaction authorization   |

|                                  |  |  |
|----------------------------------|--|--|
| <a href="#">WO 2021079719 A1</a> | NEC CORP                               | Management server, management system, control method, and storage medium   |
| <a href="#">WO 2021062380 A1</a> | HALLMARK CARDS                         | Pre-printed postage application  |
| <a href="#">WO 2021094850 A1</a> | FIRST CANADIAN BENEFITS INC            | Content distribution systems   |
| <a href="#">WO 2021079765 A1</a> | NEC CORP                               | Server device, purchase management method, and recording medium  |
| <a href="#">WO 2021084297 A1</a> | CHEUNG TONY                            | Mobile service access method, device, and system, storage medium, and electronic device                                |
| <a href="#">WO 2021076932 A1</a> | JPMORGAN CHASE BANK NA                 | Systems and methods for deterministically linking mobile applications  |
| <a href="#">WO 2021071423 A1</a> | EDWARDS PAUL JEYASINGHAM               | Systems and methods to facilitate a safer way to carry out a multi-lateral trade cycle by a pre-selected number of sme |
| <a href="#">WO 2021071791 A1</a> | EAGLE PASS TECH CORPORATION            | Methods and system for geo-differentiated virtual toll booth   |
| <a href="#">WO 2021081351 A1</a> | MASTERCARD INTERNATIONAL INC           | Contactless communication session initiation between devices   |
| <a href="#">WO 2021066809 A1</a> | VISA INT SERVICE ASS                   | System, method, and computer program product for remote authorization of payment transactions                          |
| <a href="#">WO 2021076069 A1</a> | COSKUNERLER DURUHAN                    | Application for traffic rule violation and disaster reporting and its method   |
| <a href="#">WO 2021092479 A1</a> | VISA INT SERVICE ASS                   | Remittance with recipient alias  |
| <a href="#">WO 2021060760 A1</a> | SAMSUNG ELECTRONICS CO LTD             | Electronic device for selectively using coils supporting power sharing   |
| <a href="#">WO 2021090703 A1</a> | FELICA NETWORKS INC                    | Information processing device, information processing method, information processing system, and program               |
| <a href="#">WO 2021091558 A1</a> | VISA INT SERVICE ASS                   | System and method for communication to an electronic device  |
| <a href="#">WO 2021097130 A1</a> | VISA INT SERVICE ASS                   | Use of web authentication to enhance security of secure remote platform systems  |
| <a href="#">WO 2021096456 A1</a> | TURKIYE GARANTI BANKASI ANONIM SIRKETI | A fraud control system   |
| <a href="#">WO 2021054647 A1</a> | SAMSUNG ELECTRONICS CO LTD             | Power supply method and electronic device therefor   |
| <a href="#">WO 2021081588 A1</a> | SIMSEC HONG KONG LTD                   | Electronic financial transaction module, system, and method  |
| <a href="#">WO 2021117712 A1</a> | FUJI ELECTRIC CO LTD                   | Vending machine and vending machine payment method   |

[..ver más](#)

## BASADOS EN LA LOCALIZACIÓN

| Nº PUBLICACIÓN                   | SOLICITANTE                        | CONTENIDO TÉCNICO   |
|----------------------------------|------------------------------------|---|
| <a href="#">WO 2021101661 A1</a> | SONY INTERACTIVE ENTERTAINMENT INC | Server-based generation of a help map in a video game   |
| <a href="#">WO 2021115613 A1</a> | ERICSSON TELEFON AB L M            | Mitigating location-based marketing   |
| <a href="#">WO 2021095558 A1</a> | SONY SEMICONDUCTOR SOLUTIONS CORP  | Communication device and communication method   |
| <a href="#">WO 2021078254 A1</a> | HUAWEI TECH CO LTD                 | System, method and apparatus for managing network resources                                   |
| <a href="#">WO 2021075318 A1</a> | NTT DOCOMO INC                     | Positioning system and terminal   |
| <a href="#">WO 2021066408 A1</a> | SAMSUNG ELECTRONICS CO LTD         | Direct communication session management method and apparatus in wireless communication system |
| <a href="#">WO 2021090329 A1</a> | MENEZES SIDNEY                     | Proximity based vehicle booking and operating system  |
| <a href="#">WO 2021080163 A1</a> | SAMSUNG ELECTRONICS CO LTD         | Electronic device for detecting location and method thereof                                   |
| <a href="#">WO 2021080618 A1</a> | HEWLETT PACKARD DEVELOPMENT CO     | Location determinations of electronic devices   |

[..ver más](#)

## TELEVISIÓN MÓVIL

| Nº PUBLICACIÓN                   | SOLICITANTE                | CONTENIDO TÉCNICO   |
|----------------------------------|----------------------------|---|
| <a href="#">WO 2021112642 A1</a> | SAMSUNG ELECTRONICS CO LTD | Voice user interface  |
| <a href="#">WO 2021101695 A1</a> | FACEBOOK TECH LLC          | Speech transcription using multiple data sources                              |
| <a href="#">WO 2021117953 A1</a> | LG ELECTRONICS INC         | Display apparatus   |
| <a href="#">WO 2021061806 A1</a> | QUALCOMM INC               | Rice parameter derivation for lossless/lossy coding modes for video coding    |
| <a href="#">WO 2021107496 A1</a> | SAMSUNG ELECTRONICS CO LTD | Electronic device and method for controlling the same, and storage medium     |
| <a href="#">WO 2021108831 A1</a> | ADGILE MEDIA PTY LTD       | Systems and methods for analysing media in real-time                          |
| <a href="#">WO 2021091145 A1</a> | SAMSUNG ELECTRONICS CO LTD | Electronic apparatus and method thereof                                       |
| <a href="#">WO 2021079769 A1</a> | SONY CORP                  | Speaker and electronic device   |
| <a href="#">WO 2021045397 A1</a> | SAMSUNG ELECTRONICS CO LTD | Electronic apparatus and control method thereof                               |
| <a href="#">WO 2021060728 A1</a> | SAMSUNG ELECTRONICS CO LTD | Electronic device for processing user utterance and method for operating same |
| <a href="#">WO 2021085882 A1</a> | SAMSUNG ELECTRONICS CO LTD | Electronic apparatus and control method thereof                               |

[..ver más](#)



## OTRAS REFERENCIAS

| Nº PUBLICACIÓN                   | SOLICITANTE                 | CONTENIDO TÉCNICO  |
|----------------------------------|-----------------------------|--|
| <a href="#">WO 2021101243 A1</a> | SAMSUNG ELECTRONICS CO LTD  | Apparatus and method for using ai metadata related to image quality  |
| <a href="#">WO 2021077054 A1</a> | SPLUNK INC                  | Mobile application for an information technology (it) and security operations application  |
| <a href="#">WO 2021061371 A1</a> | FACEBOOK TECH LLC           | Rendering images using declarative graphics server   |
| <a href="#">WO 2021086528 A1</a> | FACEBOOK TECH LLC           | Ai-driven personal assistant with adaptive response generation   |
| <a href="#">WO 2021107288 A1</a> | KSEEK                       | Method and system for providing autonomous vehicle-based mobile services   |
| <a href="#">WO 2021071792 A1</a> | PARTICLE MEASURING SYST     | Particle detectors with remote alarm monitoring and control  |
| <a href="#">WO 2021071249 A1</a> | SAMSUNG ELECTRONICS CO LTD  | Electronic apparatus and control method thereof  |
| <a href="#">WO 2021092632 A2</a> | INNOPEAK TECH INC           | Weakly-supervised text-based video moment retrieval via cross attention modeling   |
| <a href="#">WO 2021096944 A1</a> | AVEVA SOFTWARE LLC          | Computerized system and method for generating and dynamically updating a dashboard of multiple processes and operations across platforms |
| <a href="#">WO 2021071155 A1</a> | SAMSUNG ELECTRONICS CO LTD  | Electronic apparatus and control method thereof  |
| <a href="#">WO 2021087548 A1</a> | NIRVANA UTAH                | Process and system for a sliding fashion portal  |
| <a href="#">WO 2021051024 A1</a> | EDUCATIONAL VISION TECH INC | Editable notetaking resource with optional overlay   |
| <a href="#">WO 2021066640 A1</a> | DEGO MALAYSIA SDN BHD       | Delivery authentication system   |

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