

# Boletín VT

## SERVICIOS E INTERFACES AVANZADOS MÓVILES

4.º trimestre 2021

# 48

### 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 2021208965 A1</a> | GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP LTD | Text input method, mobile device, head-mounted display device, and storage medium                 |
| <a href="#">WO 2021201645 A1</a> | SAMSUNG ELECTRONICS CO LTD                        | Electronic device, and function operating method for electronic device using contactless gesture  |
| <a href="#">WO 2021215663 A1</a> | SAMSUNG ELECTRONICS CO LTD                        | Electronic device and operation method of electronic device                                       |
| <a href="#">WO 2021218365 A1</a> | HUAWEI TECH CO LTD                                | Annotation method and electronic device   |
| <a href="#">WO 2021208723 A1</a> | HUAWEI TECH CO LTD                                | Full-screen display method and apparatus, and electronic device                                   |
| <a href="#">WO 2021190344 A1</a> | HUAWEI TECH CO LTD                                | Multi-screen display electronic device, and multi-screen display method for electronic device     |
| <a href="#">WO 2021206764 A1</a> | GOOGLE LLC  | Dynamic multi-axis graphical user interface   |
| <a href="#">WO 2021213164 A1</a> | HUAWEI TECH CO LTD                                | Application interface interaction method, electronic device, and computer readable storage medium |
| <a href="#">WO 2021212499 A1</a> | SZ DJI TECHNOLOGY CO LTD                          | Target calibration method, apparatus, and system, and remote control terminal of movable platform |
| <a href="#">WO 2021190524 A1</a> | HUAWEI TECH CO LTD                                | Screenshot processing method, graphic user interface and terminal                                 |
| <a href="#">WO 2021201490 A1</a> | SAMSUNG ELECTRONICS CO LTD                        | Method for controlling background application and electronic device supporting same               |
| <a href="#">WO 2021206976 A1</a> | APPLE INC   | User interfaces for enabling an activity  |
| <a href="#">WO 2021201982 A1</a> | MICROSOFT TECHNOLOGY LICENSING LLC                | Automating tasks for a user across their mobile applications                                      |
| <a href="#">WO 2021201603 A1</a> | SAMSUNG ELECTRONICS CO LTD                        | Electronic device and method for controlling same   |
| <a href="#">WO 2021218429 A1</a> | HUAWEI TECH CO LTD                                | Method for managing application window, and terminal device and computer-readable storage medium  |
| <a href="#">WO 2021187441 A1</a> | JVCKENWOOD CORP                                   | User interface manipulation in a foldable screen device   |
| <a href="#">WO 2021190350 A1</a> | HUAWEI TECH CO LTD                                | Image display method and electronic device  |
| <a href="#">WO 2021218535 A1</a> | HUAWEI TECH CO LTD                                | Ui control generation and trigger methods, and terminal   |
| <a href="#">WO 2021187818 A1</a> | SAMSUNG ELECTRONICS CO LTD                        | Electronic device, and method for partially operating theme of electronic device                  |
| <a href="#">WO 2021224447 A1</a> | WAGNER GMBH J                                     | Method for controlling a paint mixing device and/or a paint application device                    |
| <a href="#">WO 2021244368 A1</a> | HUAWEI TECH CO LTD                                | Method and device for video playback  |
| <a href="#">WO 2021230967 A1</a> | MICROSOFT TECHNOLOGY LICENSING LLC                | Providing transparency and user control over use of browsing data                                 |
| <a href="#">WO 2021246783 A1</a> | SAMSUNG ELECTRONICS CO LTD                        | Electronic device comprising rollable display and display method therefor                         |

|                                  |   |  |
|----------------------------------|---|--|
| <a href="#">WO 2021227661 A1</a> | HUAWEI TECH CO LTD                                | Method and apparatus for installing application program, and terminal device and storage medium  |
| <a href="#">WO 2021252216 A1</a> | SNAP INC  | Interface carousel for use with image processing sdk   |
| <a href="#">WO 2021185627 A1</a> | SIGNIFY HOLDING BV                                | Controlling a controllable device in dependence on hand shape and or hand size and/or manner of holding and/or touching a control device     |
| <a href="#">WO 2021248493 A1</a> | SHENZHEN TRANSSION HOLDINGS CO LTD                | Message display method, mobile terminal, and computer-readable storage medium  |
| <a href="#">WO 2021240262 A1</a> | TCHEN THUAN THIEN                                 | Display method and electronic device using the same  |
| <a href="#">WO 2021231494 A2</a> | APPLE INC   | Interacting with handwritten content on an electronic device   |
| <a href="#">WO 2021231708 A1</a> | SNAP INC  | Trackpad on back portion of a device   |
| <a href="#">WO 2021225194 A1</a> | LG ELECTRONICS INC                                | Mobile terminal displaying content, and method for controlling same  |
| <a href="#">WO 2021242373 A1</a> | MICROSOFT TECHNOLOGY LICENSING LLC                | Optimizing content layout on a foldable device   |
| <a href="#">WO 2021244025 A1</a> | HUAWEI TECH CO LTD                                | Information processing method, and device, system, storage medium and computer program product   |
| <a href="#">WO 2021225282 A1</a> | SAMSUNG ELECTRONICS CO LTD                        | Electronic apparatus and controlling method thereof  |
| <a href="#">WO 2021211265 A1</a> | APPLE INC   | Multi-device continuity for use with extended reality systems  |
| <a href="#">WO 2021231489 A1</a> | HAVENOMICS LLC                                    | Computerized anonymous permission-based communications system with micro-catalog server enabling permission-based third-party communications |
| <a href="#">WO 2021231664 A1</a> | LEE ROCKY   | Systems and methods for interface-driven engagement  |
| <a href="#">WO 2021232961 A1</a> | GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP LTD | Display control method and apparatus, storage medium, and electronic device  |
| <a href="#">WO 2021232968 A1</a> | GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP LTD | Desktop icon layout method and apparatus, storage medium, and electronic device  |
| <a href="#">WO 2021231197 A1</a> | APPLE INC   | Reducing description length based on confidence  |
| <a href="#">WO 2021232960 A1</a> | GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP LTD | Method and apparatus for displaying user interface, terminal and storage medium  |
| <a href="#">WO 2021252690 A1</a> | APPLE INC   | User interfaces for messages   |
| <a href="#">WO 2021225596 A1</a> | GOOGLE LLC  | Notification delivery based on context awareness   |

[...ver más](#)

# SERVICIOS MÓVILES AVANZADOS

## REDES SOCIALES

| Nº PUBLICACIÓN                   | SOLICITANTE                        | CONTENIDO TÉCNICO   |
|----------------------------------|------------------------------------|---|
| <a href="#">WO 2021203108 A1</a> | HALO INNOVATIVE SOLUTIONS LLC      | System and method of navigating and managing multiple feeds of digital content  |
| <a href="#">WO 2021177998 A1</a> | KANDAMKULATHY SHABU ANS            | Task management through soft keyboard applications  |
| <a href="#">WO 2021212133 A1</a> | SNAP INC                           | Augmented reality content generators including 3d data in a messaging system  |
| <a href="#">WO 2021216164 A1</a> | GOOGLE LLC                         | Hierarchical context specific actions from ambient speech   |
| <a href="#">WO 2021207204 A1</a> | ROCKSTAR MUSIC INC                 | Media capture and distribution  |
| <a href="#">WO 2021216175 A1</a> | MICROSOFT TECHNOLOGY LICENSING LLC | Utilization of predictive gesture analysis for preloading and executing application components                        |
| <a href="#">WO 2021201952 A1</a> | SALESFORCE COM INC                 | Live data viewing security  |
| <a href="#">WO 2021226530 A1</a> | MICROSOFT TECHNOLOGY LICENSING LLC | Systems and methods for providing an interface to an external charging system in a digital telecommunications network |
| <a href="#">WO 2021252233 A1</a> | SNAP INC                           | Game result overlay system  |

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## PAGOS ELECTRÓNICOS MEDIANTE TERMINALES MÓVILES

| Nº PUBLICACIÓN                   | SOLICITANTE   | CONTENIDO TÉCNICO   |
|----------------------------------|---|---|
| <a href="#">WO 2021222517 A1</a> | CAPITAL ONE SERVICES LLC                                    | Tap to pay credit bill  |
| <a href="#">WO 2021206481 A1</a> | ALINK CO LTD  | Financial transaction system and method   |
| <a href="#">WO 2021221932 A1</a> | DWOLLA INC  | Key pair authentication in a label tracking system  |
| <a href="#">WO 2021200272 A1</a> | BROTHER IND LTD   | Information processing device, printing system, and information processing method   |
| <a href="#">WO 2021206452 A1</a> | SAMSUNG ELECTRONICS CO LTD                                  | Security data processing method and electronic device for supporting same   |
| <a href="#">WO 2021216717 A1</a> | SHAH NISHANT  | Vending system and method for contactless vending transactions  |
| <a href="#">WO 2021216370 A1</a> | PAYPAL INC  | Physical stand for multiple device orientations and peripheral card reader  |
| <a href="#">WO 2021222689 A1</a> | CAPITAL ONE SERVICES LLC                                    | Techniques to provide sensitive information over a voice connection   |
| <a href="#">WO 2021204658 A1</a> | BANKS AND ACQUIRERS INT HOLDING                             | Electronic payment device with means for blocking access to a data storage module   |
| <a href="#">WO 2021202867 A1</a> | PAYPAL INC  | Secure identity verification marketplace using hashed data and forward hashing search functions   |
| <a href="#">WO 2021211557 A1</a> | MASTERCARD INTERNATIONAL INC                                | Health pass systems and methods   |
| <a href="#">WO 2021216765 A1</a> | VISA INT SERVICE ASS  | Online secret encryption  |
| <a href="#">WO 2021200110 A1</a> | BROTHER IND LTD   | Printing system, printing device, printing method, and printing program   |
| <a href="#">WO 2021200046 A1</a> | DENSO CORP  | On-vehicle device for toll payment, portable communication terminal, toll payment system, and terminal control program  |
| <a href="#">WO 2021219042 A1</a> | HUAWEI TECH CO LTD  | Cloud application instance-based payment method, system and related device  |
| <a href="#">WO 2021183073 A1</a> | KARTEK KART VE BILISIM TEKNOLOJILERI TICARET ANONIM SIRKETI | A secure payment system with emv card transaction flow and pin confirmation without sharing card information of the mobile phone, computer or tablet of the cardholder and a method thereof |
| <a href="#">WO 2021222562 A1</a> | CAPITAL ONE SERVICES LLC                                    | Intelligent card unlock   |
| <a href="#">WO 2021176375 A1</a> | TERAOKA SEIKO KK  | Sales system  |
| <a href="#">WO 2021178479 A1</a> | MASTERCARD INTERNATIONAL INC                                | Method and system for providing a service node within a blockchain  |
| <a href="#">WO 2021194452 A1</a> | TURKIYE GARANTI BANKASI ANONIM SIRKETI                      | A system for porting automatic payment orders   |
| <a href="#">WO 2021213240 A1</a> | NINGBO GEELY AUTOMOBILE RES & DEVELOPMENT CO LTD            | Supporting a user in initiating or stopping payments for a parked vehicle   |
| <a href="#">WO 2021187730 A1</a> | SAMSUNG ELECTRONICS CO LTD                                  | Method and device for providing location by using peripheral device   |
| <a href="#">WO 2021252796 A1</a> | VISA INT SERVICE ASS  | Multifunctional user device   |
| <a href="#">WO 2021217497 A1</a> | PAYPAL INC  | Statistics-aware sub-graph query engine   |
| <a href="#">WO 2021226335 A1</a> | ALDELO LP   | Virtual gift cards with instant delivery and secured remote redemption  |
| <a href="#">WO 2021234367 A1</a> | TYTONICAL LTD   | Systems and methods for transaction authorisation   |
| <a href="#">WO 2021237075 A1</a> | ONETRUST LLC  | Data processing systems and methods for automatic discovery and assessment of mobile software development kits  |
| <a href="#">WO 2021222570 A1</a> | CAPITAL ONE SERVICES LLC                                    | Accurate images in graphical user interfaces to enable data transfer  |
| <a href="#">WO 2021239966 A1</a> | H & M HENNES & MAURITZ AB                                   | Systems, methods and computer program products for validating payment of in-store purchase offers provided to mobile devices  |

|                                  |   |  |
|----------------------------------|---|--|
| <a href="#">WO 2021252176 A2</a> | JCM AMERICAN CORP   | Architectures for mobile wallet and other electronic payment operations in a gaming environment                          |
| <a href="#">WO 2021231602 A1</a> | PRUPAY LLC  | Touchless payment processing methods and systems   |
| <a href="#">WO 2021209882 A1</a> | SHAH SANJAY   | Paid booking queue position sales system and process for making a patron queue position open to bids for purchase        |
| <a href="#">WO 2021229441 A1</a> | DEEYOOK LOCATION TECH LTD                                   | System, apparatus, and/or method for providing wireless applications based on locationing solutions                      |
| <a href="#">WO 2021230835 A1</a> | KARTEK KART VE BILISIM TEKNOLOJILERI TICARET ANONIM SIRKETI | Secure mobile payment acceptable as contactless payment for on-shelf trade devices, and back office application solution |
| <a href="#">WO 2021252125 A1</a> | MASTERCARD INTERNATIONAL INC                                | lot devices  |
| <a href="#">WO 2021211435 A1</a> | CAPITAL ONE SERVICES LLC                                    | Determining specific terms for contactless card activation   |
| <a href="#">WO 2021178174 A1</a> | CAPITAL ONE SERVICES LLC                                    | Audio-based security for automated teller machines   |
| <a href="#">WO 2021236537 A1</a> | ROCKETFUEL BLOCKCHAIN INC                                   | Commerce systems having integrated electronic delivery features  |
| <a href="#">WO 2021229409 A1</a> | CHOUHAN DEENDAYAL   | Technique for determination of a passenger, and ticketing for the passenger in a public transport                        |
| <a href="#">WO 2021246787 A1</a> | LEM COMPANY   | Payment device and method  |
| <a href="#">WO 2021242016 A1</a> | AHN HYE MI  | Method for performing product providing service, product providing server, and user terminal                             |
| <a href="#">WO 2021183842 A1</a> | MILLER TYLER  | System and method for four-dimensional e-commerce and interconnectivity  |
| <a href="#">WO 2021222517 A1</a> | CAPITAL ONE SERVICES LLC                                    | Tap to pay credit bill   |

[..ver más](#)

## BASADOS EN LA LOCALIZACIÓN

| Nº PUBLICACIÓN                   | SOLICITANTE                                       | CONTENIDO TÉCNICO   |
|----------------------------------|---|---|
| <a href="#">WO 2021191260 A1</a> | ASSA ABLOY AB                                     | Enabling determination of proximity based on detectable proximity determiners   |
| <a href="#">WO 2021211399 A1</a> | QUALCOMM INC                                      | Neural network based line of sight detection for positioning  |
| <a href="#">WO 2021212001 A1</a> | TRUSONA INC                                       | Systems and methods for cryptographic authentication  |
| <a href="#">WO 2021216434 A1</a> | QUALCOMM INC                                      | Determining a user equipment position within a coverage sub-area of a cell based on cell identity data                  |
| <a href="#">WO 2021191262 A1</a> | ASSA ABLOY AB                                     | Enabling determination of proximity of a mobile device based on detectable beacon devices                               |
| <a href="#">WO 2021221362 A1</a> | LG ELECTRONICS INC                                | Method and device for performing positioning on basis of signal from neighbor terminal in wireless communication system |
| <a href="#">WO 2021206811 A1</a> | QUALCOMM INC                                      | Sounding reference signal (srs) transmission for positioning on flexible symbols  |
| <a href="#">WO 2021180296 A1</a> | ERICSSON TELEFON AB L M                           | Method, communication device, computer program and computer program product for positioning estimation                  |
| <a href="#">WO 2021184388 A1</a> | GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP LTD | Image display method and apparatus, and portable electronic device  |
| <a href="#">WO 2021200187 A1</a> | SONY GROUP CORP                                   | Portable terminal, information processing method, and storage medium  |
| <a href="#">WO 2021206836 A1</a> | QUALCOMM INC                                      | Method and apparatus for location-based audio signal compensation   |
| <a href="#">WO 2021225386 A1</a> | LG ELECTRONICS INC                                | Method and device for transmitting location information in wireless communication system                                |
| <a href="#">WO 2021228394 A1</a> | NOKIA TECHNOLOGIES OY                             | Coupled downlink and uplink reference signals for efficient multi-rtt positioning                                       |
| <a href="#">WO 2021207707 A2</a> | PHY WIRELESS LLC                                  | Mobile-based positioning using assistance data provided by onboard micro-bsa  |
| <a href="#">WO 2021226339 A1</a> | NANTG MOBILE LLC                                  | Location-based content sharing via tethering  |
| <a href="#">WO 2021252880 A1</a> | AMBEENT INC                                       | Method and system for contact tracing using a software development kit (sdk) integrated into client devices             |
| <a href="#">WO 2021238785 A1</a> | HUAWEI TECH CO LTD                                | Positioning method, user equipment, storage medium, and electronic device   |

[..ver más](#)

## TELEVISIÓN MÓVIL

| Nº PUBLICACIÓN                   | SOLICITANTE                | CONTENIDO TÉCNICO  |
|----------------------------------|----------------------------|--|
| <a href="#">WO 2021214760 A1</a> | YEHOSHUA YIZHAQ            | Compensating communication systems and methods for using thereof                                     |
| <a href="#">WO 2021201493 A1</a> | SAMSUNG ELECTRONICS CO LTD | Electronic device for performing task corresponding to speech command, and operation method for same |
| <a href="#">WO 2021222001 A1</a> | ARRIS ENTPR LLC            | System and method for management and presentation of alternate media                                 |
| <a href="#">WO 2021203677 A1</a> | JUHAOKAN TECH CO LTD       | Control display method and display device  |
| <a href="#">WO 2021212922 A1</a> | HUAWEI TECH CO LTD         | Object dragging method and device  |
| <a href="#">WO 2021195583 A1</a> | MEETKAI INC                | An artificially intelligent mechanical system used in connection with enabled audio/video hardware   |
| <a href="#">WO 2021190336 A1</a> | HUAWEI TECH CO LTD         | Device control method, apparatus and system  |
| <a href="#">WO 2021193991 A1</a> | LG ELECTRONICS INC         | Display device   |
| <a href="#">WO 2021213097 A1</a> | HISENSE VISUAL TECH CO LTD | Display apparatus and screen projection method   |
| <a href="#">WO 2021222599 A1</a> | NIELSEN CO US LLC          | Measurement of internet media consumption  |
| <a href="#">WO 2021218486 A1</a> | HUAWEI TECH CO LTD         | Method and device for adjusting the control-display gain of a gesture controlled electronic device   |
| <a href="#">WO 2021189693 A1</a> | JUHAOKAN TECH CO LTD       | Method for displaying album control, and display device  |
| <a href="#">WO 2021248672 A1</a> | HISENSE VISUAL TECH CO LTD | Custom setting method and starting method for control button, and display device                     |
| <a href="#">WO 2021241879 A1</a> | SAMSUNG ELECTRONICS CO LTD | Server and control method therefor   |

[..ver más](#)



## OTRAS REFERENCIAS

| Nº PUBLICACIÓN                   | SOLICITANTE                                     | CONTENIDO TÉCNICO  |
|----------------------------------|---|--|
| <a href="#">WO 2021191937 A1</a> | PANASONIC IP MAN CO LTD                         | Door intercom system, portable terminal registration permission method, and program  |
| <a href="#">WO 2021193062 A1</a> | SONY GROUP CORP                                 | Information processing device, information processing method, and program  |
| <a href="#">WO 2021188081 A1</a> | CRENNO BILISIM HIZMETLERI AR GE SAN TIC LTD STI | Method and system of verifying mobile phone information of users who are connected to the internet with a wired/wireless gateway other than the gsm mobile network with a mobile device in the gsm mobile network area |
| <a href="#">WO 2021184249 A1</a> | CITRIX SYSTEMS INC                              | Machine translation of digital content   |
| <a href="#">WO 2021220217 A1</a> | CIMPRESS SCHWEIZ GMBH                           | Technologies for digitally rendering items having digital designs  |
| <a href="#">WO 2021195670 A1</a> | SNAP INC  | Location mapping for large scale augmented-reality   |
| <a href="#">WO 2021218979 A1</a> | HUAWEI TECH CO LTD                              | Login method and system based on cloud application instance, and related device  |
| <a href="#">WO 2021222710 A1</a> | SURFACES SOUTHEAST LLC                          | Systems and methods for operating a display board  |
| <a href="#">WO 2021194963 A1</a> | DUBL DEV LLC                                    | Methods and systems for displaying and recording multiple video feeds using a single, unified window   |
| <a href="#">WO 2021202040 A1</a> | CITRIX SYSTEMS INC                              | Identifying an application for communicating with one or more individuals  |
| <a href="#">WO 2021232051 A1</a> | AERENDIR MOBILE INC                             | Electronic devices related to physiological certificate using biometrics technology and methods for operation thereof  |
| <a href="#">WO 2021216383 A1</a> | QUALCOMM INC                                    | Temperature and ultrasonic sensor fusion for biometric sensing   |
| <a href="#">WO 2021240416 A1</a> | DJURIC MARKO                                    | Notification application for a computing device  |
| <a href="#">WO 2021215993 A1</a> | CRUNCHFISH DIGITAL CASH AB                      | Action verification by a communication device enabled for short-range wireless communication   |
| <a href="#">WO 2021225785 A1</a> | LIMONOX PROJECTS LLC                            | 3d photos  |
| <a href="#">WO 2021178114 A1</a> | PAG FINANCIAL INT LLC                           | Systems and methods for operating an interactive voice response system   |
| <a href="#">WO 2021195181 A1</a> | EXPENSIFY INC                                   | Voice interactive system   |
| <a href="#">WO 2021222917 A1</a> | QUALCOMM INC                                    | Fingerprint sensor with detection of latent fingerprints   |
| <a href="#">WO 2021183999 A1</a> | GREENCHOICE PBC                                 | Value based commodity selection  |

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