

Boletín VT

SERVICIOS E INTERFACES AVANZADOS MÓVILES

1.º trimestre 2020

41

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
WO 2020046641 A1	GOOGLE LLC	Methods and systems for positioning animated images within a dynamic keyboard interface
WO 2020047793 A1	SHENZHEN ROYOLE TECHNOLOGIES CO LTD	Electronic document management method, mobile terminal, and computer readable storage medium
WO 2020051968 A1	HUAWEI TECH CO LTD	Data sharing method, graphic user interface, and electronic device and system
WO 2020055489 A1	MICROSOFT TECHNOLOGY LICENSING LLC	Computing device display management
WO 2020050899 A1	MICROSOFT TECHNOLOGY LICENSING LLC	Changing a mode of operation of a computing device by a pen device
WO 2020052374 A1	GREE ELECTRIC APPLIANCES INC ZHUHAI	Screenshot method and device
WO 2020047758 A1	SHENZHEN HEYTAP TECH CORP LTD	Message prompting method and related product
WO 2020040968 A1	GOOGLE LLC	Smartphone, system and method comprising a radar system
WO 2020042179 A1	SHENZHEN ROYOLE TECHNOLOGIES CO LTD	Display control method and electronic device having double-sided display screen
WO 2020005623 A1	MICROSOFT TECHNOLOGY LICENSING LLC	Ai-driven human-computer interface for associating low-level content with high-level activities using topics as an abstraction
WO 2020018367 A1	GOOGLE LLC	Methods and systems for input suggestion
WO 2020033298 A1	GOOGLE LLC	Multi-angle object recognition
WO 2020043064 A1	TENCENT TECH SHENZHEN CO LTD	Page switching method, apparatus, storage medium, and computer device
WO 2020005302 A1	GOOGLE LLC	Graphical user interface for a voice response system
WO 2020005723 A1	MICROSOFT TECHNOLOGY LICENSING LLC	Adaptive user-interface assembling and rendering
WO 2020027773 A1	HEWLETT PACKARD DEVELOPMENT CO	User interface modification
WO 2020037469 A1	HUAWEI TECH CO LTD	Interface display method and electronic device
WO 2020037561 A1	SHENZHEN HEYTAP TECH CORP LTD	Method for rapidly recording image, terminal, and computer storage medium
WO 2020046776 A1	ALIBABA GROUP HOLDING LIMITED	Method, system, and device for interfacing with a terminal with a plurality of response modes
WO 2020027614 A1	SAMSUNG ELECTRONICS CO LTD	Method for displaying stylus pen input, and electronic device for same
WO 2020039273 A1	SAGE SENSES INC	Method, system and apparatus for touch gesture recognition
WO 2020042728 A1	ZTE CORP	Display method for display screen, electronic device, and storage medium
WO 2020013666 A1	SAMSUNG ELECTRONICS CO LTD	Method for user voice input processing and electronic device supporting same
WO 2020046752 A1	ALIBABA GROUP HOLDING LTD	Method, system, and device for interfacing with a component in a plurality of interaction modes

WO 2020023147 A1	MICROSOFT TECHNOLOGY LICENSING LLC	Refining virtual mesh models through physical contacts
WO 2020040856 A1	DELL PRODUCTS LP	Context-aware user interface (ui) for multi-form factor information handling systems (ihss)
WO 2020037611 A1	HUAWEI TECH CO LTD	Method and electronic device for processing notification message
WO 2020040366 A1	HEWLETT PACKARD DEVELOPMENT CO	Performing print job according to format of print job acquired based on metadata
WO 2020027933 A1	DELL PRODUCTS LP	Multi-form factor information handling system (ihs) with removable keyboard
WO 2020032564 A1	SAMSUNG ELECTRONICS CO LTD	Electronic device and method for providing one or more items in response to user speech
WO 2020032522 A1	SAMSUNG ELECTRONICS CO LTD	Apparatus for unlocking electronic device by using stylus pen and method thereof
WO 2020032374 A1	SAMSUNG ELECTRONICS CO LTD	Electronic apparatus for generating animated message by drawing input
WO 2020000276 A1	HUAWEI TECH CO LTD	Method and terminal for controlling shortcut button
WO 2020029209 A1	SHENZHEN ROYOLE TECHNOLOGIES CO LTD	Bendable mobile terminal and information notification method thereof
WO 2020029213 A1	HUAWEI TECH CO LTD	Method for answering or rejecting call during srvc handover
WO 2020045927 A1	SAMSUNG ELECTRONICS CO LTD	Electronic device and method for generating short cut of quick command
WO 2020013647 A1	SAMSUNG ELECTRONICS CO LTD	Electronic device and volume adjustment method of electronic device
WO 2020022829 A1	SAMSUNG ELECTRONICS CO LTD	Electronic device for supporting user input and control method of electronic device
WO 2020024890 A1	HUAWEI TECH CO LTD	Touch device and method
WO 2020027458 A1	SAMSUNG ELECTRONICS CO LTD	Electronic device and method for independently controlling a plurality of displays
WO 2020032512 A1	SAMSUNG ELECTRONICS CO LTD	Electronic device and method for displaying affordance for providing charging of battery of external device through display
WO 2020039479 A1	GUNGHO ONLINE ENTERTAINMENT INC	Terminal device, program, method, and system
WO 2019245331 A1	SAMSUNG ELECTRONICS CO LTD	Text input device and method therefor
WO 2019242585 A1	ZTE CORP	Picture browsing method, apparatus, mobile terminal, and computer readable storage medium
WO 2020013470 A1	SAMSUNG ELECTRONICS CO LTD	Method for determining data falsification and electronic device for supporting same
WO 2019242543 A1	DINGTALK HOLDING CAYMAN LTD	Method and apparatus for generating group avatar
WO 2020005044 A1	SAMSUNG ELECTRONICS CO LTD	Method for setting layout for physical keyboard by electronic device, and device therefor
WO 2020032650 A1	SAMSUNG ELECTRONICS CO LTD	Speech recognition method and electronic device for supporting the same
WO 2020032525 A1	SAMSUNG ELECTRONICS CO LTD	Electronic device for displaying information regarding stylus pen and method thereof
WO 2020027417 A1	SAMSUNG ELECTRONICS CO LTD	Electronic device and method for providing virtual input tool

WO 2020006669 A1	HUAWEI TECH CO LTD	Icon switching method, method for displaying gui, and electronic device
WO 2020019220 A1	HUAWEI TECH CO LTD	Method for displaying service information in preview interface, and electronic device
WO 2020032381 A1	SAMSUNG ELECTRONICS CO LTD	Electronic apparatus for processing user utterance and controlling method thereof
WO 2020032608 A1	SAMSUNG ELECTRONICS CO LTD	Feedback method and apparatus of electronic device for confirming user's intention
WO 2020000445 A1	HUAWEI TECH CO LTD	Method for browsing folder of application, and electronic device
WO 2020046641 A1	GOOGLE LLC	Methods and systems for positioning animated images within a dynamic keyboard interface
WO 2020047793 A1	SHENZHEN ROYOLE TECHNOLOGIES CO LTD	Electronic document management method, mobile terminal, and computer readable storage medium
WO 2020051968 A1	HUAWEI TECH CO LTD	Data sharing method, graphic user interface, and electronic device and system
WO 2020055489 A1	MICROSOFT TECHNOLOGY LICENSING LLC	Computing device display management
WO 2020050899 A1	MICROSOFT TECHNOLOGY LICENSING LLC	Changing a mode of operation of a computing device by a pen device
WO 2020052374 A1	GREE ELECTRIC APPLIANCES INC ZHUHAI	Screenshot method and device
WO 2020047758 A1	SHENZHEN HEYTAP TECH CORP LTD	Message prompting method and related product
WO 2020040968 A1	GOOGLE LLC	Smartphone, system and method comprising a radar system
WO 2020042179 A1	SHENZHEN ROYOLE TECHNOLOGIES CO LTD	Display control method and electronic device having double-sided display screen
WO 2020005623 A1	MICROSOFT TECHNOLOGY LICENSING LLC	Ai-driven human-computer interface for associating low-level content with high-level activities using topics as an abstraction
WO 2020018367 A1	GOOGLE LLC	Methods and systems for input suggestion
WO 2020033298 A1	GOOGLE LLC	Multi-angle object recognition

[...ver más](#)

SERVICIOS MÓVILES AVANZADOS

REDES SOCIALES

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

WO 2020041090 A1	FACEBOOK INC	Method and system for analyzing and predicting geographic habits
WO 2020005627 A1	MICROSOFT TECHNOLOGY LICENSING LLC	Generating smart replies involving image files
WO 2020023146 A1	MICROSOFT TECHNOLOGY LICENSING LLC	Dynamic discovery range for online sessions
WO 2020036759 A2	CARRIER CORP	A method and a system for monitoring a fire or security system and a storage medium
WO 2020041652 A1	FACEBOOK INC	Sharing and presentation of content within augmented-reality environments
WO 2020018109 A1	GOOGLE LLC	Dynamically linking social media reactions to actions performed by remote applications
WO 2019245578 A1	VIRTUAL ALBUM TECH LLC	Multi-modal virtual experiences of distributed content
WO 2020018379 A1	VIDIT LLC	Systems and methods for identification and prioritization of one or more attributes
WO 2019246155 A1	TOCCA INC	Automated contact management
WO 2020000977 A1	SHANGHAI ZHANGMEN SCIENCE AND TECH CO LTD	Method and device for generating and comparing music data and computer storage medium
WO 2020018382 A1	VIDIT LLC	Systems and methods for archiving and accessing of image content

[...ver más](#)

PAGOS ELECTRÓNICOS MEDIANTE TERMINALES MÓVILES

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2020036608 A1	VISA INT SERVICE ASS	Techniques for securely communicating sensitive data
WO 2020045964 A1	YANG SEI YANG	Method of secure reservation and later payment for co-sharing among users for shared resources/services, and system device thereof
WO 2020041805 A1	LEXCO ONE LTD	Mobile wallet overdraw
WO 2020049442 A1	LANDMONEY HOLDINGS PTY LTD	Digital currency and trading system
WO 2019229652 A1	CHANNEL TECH FZE	System and method for provision and recovery of a network usage advance
WO 2020047868 A1	HUAWEI TECH CO LTD	Business processing method and device
WO 2020050414 A1	TERAOKA SEIKO KK	Self registration system and self registration method
WO 2020001858 A1	VOCALINK LTD	Data processing apparatus and methods
WO 2020040333 A1	AHN JONG PIL	Method and system for providing online coupon and management server for same
WO 2020039957 A1	SONY CORP	Information processing device, information processing method, and program
WO 2020051261 A2	PEETERS JOHN P	Genomic and environmental blockchain sensors
WO 2020055857 A1	VISA INT SERVICE ASS	System and method for peer-to-peer payments
WO 2020025430 A1	INGENICO GROUP	Method for transmitting data to two separate gateways, and corresponding device
WO 2020039901 A1	SONY CORP	Information processing device, information processing method, and program
WO 2020046274 A1	VISA INT SERVICE ASS	Methodology to prevent screen capture of sensitive data in mobile apps
WO 2020046278 A1	VISA INT SERVICE ASS	Methodology to obfuscate sensitive information in mobile application background snapshot
WO 2020005454 A1	DIEBOLD NIXDORF INCORPORATED	Autonomous mobile services
WO 2020040528 A1	SAMSUNG ELECTRONICS CO LTD	Electronic device for controlling specified functions based on electromagnetic signal detection and method thereof
WO 2020001807 A1	GIESECKE DEVRIENT MOBILE SECURITY GMBH	Smartcard as a security token
WO 2020040455 A1	SAMSUNG ELECTRONICS CO LTD	Control method for electronic device, and computer-readable recording medium for storing program for performing same
WO 2015160385 A1	MASTERCARD INTERNATIONAL INC	Method and system for generating an advanced storage key in a mobile device without secure elements
WO 2020026872 A1	FELICA NETWORKS INC	Information processing device and information processing method
WO 2020008269 A1	AMIN CHAITANYA TUSHAR	Controlling asset access based on payments via a distributed ledger
WO 2020036689 A1	MASTERCARD INTERNATIONAL INC	Method and system for facilitating installment payment with reward points
WO 2020040743 A1	VISA INT SERVICE ASS	System, method, and computer program product for mobile device transactions
WO 2020031428 A1	NEC CORP	Portable terminal, relay device, accounting device, accounting system, control method for portable terminal, accounting method, relay method, and program
WO 2020009768 A1	MASTERCARD INTERNATIONAL INC	Method and system for spend controls for a virtual card number with multiple funding sources
WO 2020036588 A1	VISA INT SERVICE ASS	System, method, and computer program product for partitioning mobile device transactions
WO 2020047545 A1	BLEU TECH ENTPR INC	Long range decentralized mobile payment network using bluetooth
WO 2020010162 A1	PAYPAL INC	A system and method for using an unobstrusive and discrete embedded barcode for debugging

WO 2020013932 A1	MASTERCARD INTERNATIONAL INC	Methods and systems for encrypting data for a web application
WO 2020028197 A1	AMERICAN EXPRESS TRAVEL RELATED SERVICES CO INC	System and method for transaction account based micro-payments
WO 2019245514 A1	LISIN MYKYTA MYKOLAIOVYCH	A method for protecting access to a cryptocurrency wallet
WO 2020003477 A1	OPTIM CORP	Computer system, bank-transfer fraud prevention method, and program
WO 2020013365 A1	ISAN CO LTD	Ubiquitous integrated smart mooring platform based on iot technology
WO 2020028775 A1	LAZLO 326 LLC	System and method for ordering and receiving digital goods through text messaging
WO 2020023003 A1	VISA INT SERVICE ASS	System, method, and computer program product for early detection of a merchant data breach through machine-learning analysis
WO 2020022245 A1	MATHUDAIRA HIROKI	Settlement assistance system and settlement assistance method
WO 2020024769 A1	JINGDONG DIGITS TECH HOLDING CO LTD	Payment mode recommendation method and device, and medium
WO 2019245198 A1	SAMSUNG ELECTRONICS CO LTD	Electronic device and payment information output method thereof
WO 2020004873 A1	LYOU CHANG HWA	System and method for payment using tag synced with store information
WO 2020032314 A1	MOA PLANET CO LTD	System for processing on/off-line multi-payment on basis of multi-wallet using blockchain
WO 2020022528 A1	PARK HEE YOUNG	System and method for generating security code or virtual account
WO 2019245210 A1	LOCAL MARKETING PARTNERS CO LTD	Contactless sound wave payment system for entering payment amount by seller terminal and method therefor
WO 2020028615 A1	VISA INT SERVICE ASS	Method, system, and computer program product for configuring a gateway
WO 2020037265 A1	OMNYWAY INC	Methods and systems for performing an advertisement based single step electronic transaction with or without using a custom application
WO 2020008926 A1	TOSHIBA KK	Portable electronic device and ic card
WO 2020021550 A1	SOURCE LTD	System and method for performing cashless transactions between computing devices
WO 2020027539 A1	SAMSUNG ELECTRONICS CO LTD	Electronic device having a plurality of stacked coil antennas
WO 2019246462 A1	PAG FINANCIAL INT LLC	Systems and methods for processing purchase transactions using a mobile device
WO 2020006613 A1	KAVALIERIS LUIZ CARLOS	System and process for paying tolls and vehicle parking fees in general by means of a cellular telephony device
WO 2020006303 A1	PAYPAL INC	Systems and methods for providing tokenization services at a mobile device
WO 2020014346 A1	KYRA SOLUTIONS INC	Toll settlement system and method
WO 2020006479 A1	VISA INT SERVICE ASS	Chip card socket communication
WO 2020023697 A1	PHOENIX INTANGIBLES HOLDING COMPANY	Method of providing on a mobile electronic device access to a number of sources of pre-established funds
WO 2020010263 A1	RADPAY INC	A blockchain-based secure payment system
WO 2020014425 A1	VISA INT SERVICE ASS	Privacy-preserving graph compression with automated fuzzy variable detection
WO 2020009205 A1	DIGITAL ARTS INC	Portable device and electronic settlement method
WO 2020018598 A1	PAYPAL INC	System architecture for dynamically rendering a customized user interface on a mobile device
WO 2020009658 A1	LEOW WEE DAR	Identity or security authentication device for electronic system using visual patterns or codes
WO 2020023500 A1	FIRST DATA CORP	Pay with points at point of service
WO 2020023632 A1	JPMORGAN CHASE BANK NA	Systems and methods for out-of-band, time-based matching for applying issuer benefits to transactions

WO 2020022957 A1	AIOZ PTE LTD	Method and apparatus for transaction verification in a blockchain-based network
WO 2020013928 A1	VISA INT SERVICE ASS	Public-private key pair account login and key manager
WO 2020010203 A1	VISA INT SERVICE ASS	Token state synchronization

[..ver más](#)

BASADOS EN LA LOCALIZACIÓN

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

WO 2020046348 A1	CISCO TECH INC	Geo-location based identity selection for wireless connections
WO 2020052243 A1	HUAWEI TECH CO LTD	Multimodal location sensing on a mobile phone
WO 2020005636 A1	MICROSOFT TECHNOLOGY LICENSING LLC	Indoor location-based service
WO 2020055112 A1	SAMSUNG ELECTRONICS CO LTD	Electronic device and method for identifying location by electronic device
WO 2020055928 A1	MAPBOX INC	Calibration for vision in navigation systems
WO 2020041795 A1	32 TECH LLC	Enhanced location tracking using ultra-wideband
WO 2020040531 A1	UNIV HANYANG IND UNIV COOP FOUND	Method and device for controlling uplink interference of terminal information-collecting device in wireless communication system
WO 2020013587 A1	SAMSUNG ELECTRONICS CO LTD	Method and electronic device for tracking position of access point
WO 2020010226 A1	MAGIC LEAP INC	Systems and methods for virtual and augmented reality

[..ver más](#)

TELEVISIÓN MÓVIL

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

WO 2020026268 A1	SLING MEDIA PVT LTD	Systems and methods for intelligent playback
WO 2020041071 A1	FACEBOOK TECH LLC	Synchronization of digital content consumption
WO 2020036476 A1	SAMSUNG ELECTRONICS CO LTD	Display device and control method thereof
WO 2020033896 A1	TOUCHCAST LLC	System and method for providing and interacting with coordinated presentations
WO 2020000291 A1	HUAWEI TECH CO LTD	Media information display method and media information display apparatus
WO 2020006699 A1	HUAWEI TECH CO LTD	Method and apparatus for voice processing
WO 2020027559 A1	SAMSUNG ELECTRONICS CO LTD	Electronic apparatus and control method thereof
WO 2020005472 A1	SONY INTERACTIVE ENTERTAINMENT INC	Systems and methods to provide audible output based on section of content being presented
WO 2020004790 A1	SAMSUNG ELECTRONICS CO LTD	Electronic apparatus, method for controlling mobile apparatus by electronic apparatus and computer readable recording medium

[..ver más](#)

OTRAS REFERENCIAS

Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

WO 2020044052 A1	LIOPA LTD	'Liveness' detection system
WO 2020048358 A1	GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP LTD	Method, system, and computer-readable medium for recognizing speech using depth information
WO 2020044137 A1	DUBEY GAURAV	System and method for stabilizing a virtual reality display system to a user
WO 2019245801 A1	GOOGLE LLC	Digital supplement association and retrieval for visual search
WO 2020046843 A1	ACTIONTEC ELECTRONICS INC	Classroom assistance system
WO 2020041563 A1	UNIV TEXAS	Controlling a device by tracking movement of hand using acoustic signals
WO 2020042991 A1	ALIBABA GROUP HOLDING LTD	Service providing method and apparatus, service processing method and apparatus, electronic device, and medium
WO 2020017750 A1	CHEONJO INT CO LTD	Advertisement sharing and verification system based on address book
WO 2020040753 A1	GOOGLE LLC	Automated assistant invocation of second interactive module using supplemental data provided by first interactive module
WO 2020020668 A1	NOKIA TECHNOLOGIES OY	An apparatus, method, computer program for enabling access to mediated reality content by a remote user
WO 2020004717 A1	NAVER CORP	Method of providing translation service using input application and terminal device using same
WO 2020000211 A1	HUAWEI TECH CO LTD	Method for adjusting screen colour temperature, and terminal
WO 2020016330 A1	THOMSON LICENSING	Device and method for image display
WO 2020017754 A1	SAMSUNG ELECTRONICS CO LTD	Electronic device and method for operation thereof
WO 2020022567 A1	HUMAX CO LTD	Smart device and method for controlling same
WO 2020014495 A1	IROBOT CORP	Mobile robot cleaning system
WO 2020018014 A1	IRON GAMING LTD	Method and apparatus for categorising images of mobile device software
WO 2020027865 A1	BAUER COMPRESSORS INC	System and method for controlling operational facets of a compressor from a remote platform
WO 2019244715 A1	TRADFIT CO LTD	Program, information processing method, information processing device, and information processing system
WO 2019244365 A1	TRADFIT CO LTD	Program and information processing method
WO 2020010355 A1	IMAGEKEEPER LLC	Secure digital media capture and analysis
WO 2020009378 A1	SAMSUNG ELECTRONICS CO LTD	Device for outputting sound and method therefor
WO 2020017951 A1	EVERDAWN SDN BHD	End-to-end central mobile organizing system
WO 2020008447 A1	VEERIDE LTD	Mechanical connection of an optical accessory for augmented reality to be connected to a touch-screen device
WO 2020023604 A1	WALMART APOLLO LLC	Systems and methods for providing interactions based on a distributed conversation database

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