

# Boletín VT

## SERVICIOS E INTERFACES AVANZADOS MÓVILES

3.º trimestre 2020

# 43

### 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 2020122949</a>	GOOGLE LLC	Graphical user interface indicator for broadcaster presence
<a href="#">WO 2020124456</a>	SHANGHAI YU WA INFORMATION TECH CO LTD	Method and apparatus for organizing and invoking commands for computing device
<a href="#">WO 2020124454</a>	SHENZHEN HEYTAP TECH CORP LTD	Font switching method and related product
<a href="#">WO 2020138201</a>	BANDAI NAMCO ENTERTAINMENT INC	Game system, processing method, and information storage medium
<a href="#">WO 2020124579</a>	HUAWEI TECH CO LTD	Method for verifying user identity, and electronic device
<a href="#">WO 2020134849</a>	ZTE CORP	Touch method and device for slide touch screen apparatus
<a href="#">WO 2020131536</a>	MICROSOFT TECHNOLOGY LICENSING LLC	Interactive viewing and editing system
<a href="#">WO 2020131503</a>	MICROSOFT TECHNOLOGY LICENSING LLC	Interactive viewing system
<a href="#">WO 2020141763</a>	SAMSUNG ELECTRONICS CO LTD	Electronic device and folder configuring method therefor
<a href="#">WO 2020150193</a>	APPLE INC	Head-mounted display with facial interface for sensing physiological conditions
<a href="#">WO 2020150518</a>	APPLE INC	User interfaces for presenting information about and facilitating application functions
<a href="#">WO 2020184935</a>	SAMSUNG ELECTRONICS CO LTD	Electronic apparatus and method for controlling thereof
<a href="#">WO 2020159440</a>	AMS SENSORS SINGAPORE PTE LTD	Device including an optoelectronic module operable to respond to user's finger movements for controlling the device
<a href="#">WO 2020159619</a>	CITRIX SYSTEMS INC	Systems and methods for configuring the user interface of a mobile device
<a href="#">WO 2020146158</a>	MICROSOFT TECHNOLOGY LICENSING LLC	Multi-region image scanning
<a href="#">WO 2020174010</a>	SCHEID RALF	Method for providing augmented reality data, computing device, system and computer program
<a href="#">WO 2020175811</a>	SAMSUNG ELECTRONICS CO LTD	Display apparatus and controlling method thereof
<a href="#">WO 2020171611</a>	SAMSUNG ELECTRONICS CO. LTD.	Electronic device for providing various functions through application using a camera and operating method thereof
<a href="#">WO 2020156511</a>	HUAWEI TECH CO LTD	Vibration probing system for providing context to context-aware mobile applications
<a href="#">WO 2020167066</a>	SAMSUNG ELECTRONICS CO LTD	Method and electronic device for machine learning based prediction of subsequent user interface layouts
<a href="#">WO 2020153750</a>	SAMSUNG ELECTRONICS CO LTD	Method and device for providing application list by electronic device
<a href="#">WO 2020160483</a>	QUALCOMM INC	Photography assistance for mobile devices

<a href="#">WO 2020163016</a>	GOOGLE LLC	Dynamically updating user interface elements
<a href="#">WO 2020159308</a>	SAMSUNG ELECTRONICS CO LTD	Electronic device and method for mapping function to button input
<a href="#">WO 2020171385</a>	SAMSUNG ELECTRONICS CO. LTD.	Electronic device supporting avatar recommendation and download
<a href="#">WO 2020145934</a>	GOOGLE LLC	Haptic output for trackpad controlled using force signal and sense signal
<a href="#">WO 2016144975</a>	APPLE INC	Devices, methods, and graphical user interfaces for manipulating user interface objects with visual and/or haptic feedback
<a href="#">WO 2020180034</a>	SAMSUNG ELECTRONICS CO LTD	Method and device for providing user-selection-based information
<a href="#">WO 2020171628</a>	SAMSUNG ELECTRONICS CO. LTD.	Electronic device including foldable display and method for operating the electronic device
<a href="#">WO 2020171570</a>	SAMSUNG ELECTRONICS CO. LTD.	Method for providing routine and electronic device supporting same
<a href="#">WO 2020165521</a>	ORANGE	Method for controlling a computer device for entering a personal code
<a href="#">WO 2020171574</a>	SAMSUNG ELECTRONICS CO. LTD.	System and method for ai enhanced shutter button user interface
<a href="#">WO 2020171613</a>	SAMSUNG ELECTRONICS CO. LTD.	Method for displaying visual object regarding contents and electronic device thereof
<a href="#">WO 2020166737</a>	LG ELECTRONICS INC	Mobile device and control method therefor
<a href="#">WO 2020171545</a>	SAMSUNG ELECTRONICS CO. LTD.	Electronic device and system for processing user input and method thereof
<a href="#">WO 2020166731</a>	LG ELECTRONICS INC	Action robot terminal and operating method therefor
<a href="#">WO 2020166894</a>	SAMSUNG ELECTRONICS CO LTD	Electronic device and method for recommending word in same
<a href="#">WO 2020166780</a>	SAMSUNG ELECTRONICS CO LTD	Electronic device, and method for managing life cycle of plurality of applications executed in electronic device
<a href="#">WO 2020167924</a>	SONOS INC	Methods for calibrating passive speakers with a graphical user interface
<a href="#">WO 2020123752</a>	SLACK TECH INC	Improved developer tools for a communication platform background
<a href="#">WO 2020122949</a>	GOOGLE LLC	Graphical user interface indicator for broadcaster presence
<a href="#">WO 2020124456</a>	SHANGHAI YU WA INFORMATION TECH CO LTD	Method and apparatus for organizing and invoking commands for computing device
<a href="#">WO 2020124454</a>	SHENZHEN HEYTAP TECH CORP LTD	Font switching method and related product
<a href="#">WO 2020138201</a>	BANDAI NAMCO ENTERTAINMENT INC	Game system, processing method, and information storage medium
<a href="#">WO 2020124579</a>	HUAWEI TECH CO LTD	Method for verifying user identity, and electronic device
<a href="#">WO 2020134849</a>	ZTE CORP	Touch method and device for slide touch screen apparatus
<a href="#">WO 2020131536</a>	MICROSOFT TECHNOLOGY LICENSING LLC	Interactive viewing and editing system
<a href="#">WO 2020131503</a>	MICROSOFT TECHNOLOGY LICENSING LLC	Interactive viewing system
<a href="#">WO 2020141763</a>	SAMSUNG ELECTRONICS CO LTD	Electronic device and folder configuring method therefor
<a href="#">WO 2020150193</a>	APPLE INC	Head-mounted display with facial interface for sensing physiological conditions
<a href="#">WO 2020150518</a>	APPLE INC	User interfaces for presenting information about and facilitating application functions

[WO 2020184935](#)

SAMSUNG  
ELECTRONICS CO  
LTD

Electronic apparatus and method for controlling thereof

[...ver más](#)

# SERVICIOS MÓVILES AVANZADOS

## REDES SOCIALES

### Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

<a href="#">WO 2020140124</a>	TWITTER INC	Audio only content
<a href="#">WO 2020148688</a>	HIKE PRIVATE LTD	A system and method for an automated sticker assembly
<a href="#">WO 2020142172</a>	SPONSORHOUSE INC DBA HOOKIT	Data prioritization through relationship analysis mapping
<a href="#">WO 2020160186</a>	TWITTER INC	Real-time event detection on social data streams
<a href="#">WO 2020159217</a>	SAMSUNG ELECTRONICS CO LTD	Electronic device and method for determining task including plural actions
<a href="#">WO 2020150978</a>	CITRIX SYSTEMS INC	Optimized network selection
<a href="#">WO 2020150979</a>	HUAWEI TECH CO LTD	Image sharing method and mobile device
<a href="#">WO 2020176714</a>	A SOCIAL COMPANY	Social media platform for sharing reactions to videos
<a href="#">WO 2020168077</a>	ALYCE INC	System and method for transferring a graphical identification object onto a physical substrate
<a href="#">WO 2020165465</a>	YOUNGIVER AG	Device for initiation of a process

[...ver más](#)

## PAGOS ELECTRÓNICOS MEDIANTE TERMINALES MÓVILES

### Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
<a href="#">WO 2020135532</a>	HUAWEI TECH CO LTD	Transaction security processing method and apparatus, and terminal device
<a href="#">WO 2020130637</a>	KANG CHAN GO	System and method for providing service for random discount in real time by using mobile app
<a href="#">WO 2020131822</a>	BITTBOARD INC	Systems, and methods for fulfillment of an order for a product
<a href="#">WO 2020122898</a>	VISA INT SERVICE ASS	Provisioning initiated from a contactless device
<a href="#">WO 2020183913</a>	FUJI ELECTRIC CO LTD	Vending machine system
<a href="#">WO 2020122990</a>	IBUILD GLOBAL INC	Systems, methods, and user interfaces for planning, execution, and verification of construction tasks
<a href="#">WO 2020138658</a>	SAMSUNG ELECTRONICS CO LTD	Electronic device and method for controlling electronic device
<a href="#">WO 2020129307</a>	FUJIFILM CORP	Reading device, reading method, reading program, and settlement processing method
<a href="#">WO 2020142105</a>	VISA INT SERVICE ASS	Smart payment systems and methods
<a href="#">WO 2020123187</a>	ROTATION 5 LLC	Personal financial network with personalized digital coins
<a href="#">WO 2020180597</a>	MASTERCARD INTERNATIONAL INC	Digital wallet promotions through tokenization platform
<a href="#">WO 2020139965</a>	PAYPAL INC	Blockchain management system
<a href="#">WO 2020149928</a>	ANCHOR LABS INC	Secure account access
<a href="#">WO 2020142512</a>	VISA INT SERVICE ASS	Computer and conduit for system testing
<a href="#">WO 2020175806</a>	NAVER CORP	Device for recognizing characters and method for recognizing characters by means of same
<a href="#">WO 2020146524</a>	JOUST LABS INC	System and method for electronic payment processing and risk analysis
<a href="#">WO 2020176743</a>	STRIPE INC	Push payment decision routing
<a href="#">WO 2020157846</a>	MITSUBISHI ELECTRIC CORP	Portable device, onboard device, control device, control method, and control program
<a href="#">WO 2020176713</a>	MASTERCARD INTERNATIONAL INC	Systems and methods for use in facilitating network transactions
<a href="#">WO 2020145517</a>	SAMSUNG ELECTRONICS CO LTD	Method for authenticating user and electronic device thereof
<a href="#">WO 2020159328</a>	ICTK HOLDINGS CO LTD	Authentication information processing method and apparatus and user terminal including authentication information processing method apparatus
<a href="#">WO 2020157848</a>	MITSUBISHI ELECTRIC CORP	Portable device, onboard device, control device, control method, and control program
<a href="#">WO 2020163482</a>	BIONET SONAR	Secured intrabody networks and interfaces for the internet of things and multiple uses of ultrasound wideband
<a href="#">WO 2020148659</a>	RATHOD YOGESH	Augmented reality based reactions, actions, call-to-actions, survey, accessing query specific cameras
<a href="#">WO 2020172724</a>	FORNER GIOVANI CARLO	Cellphone-based electronic vehicle access control system in chargeable or free-of-charge parking lots
<a href="#">WO 2020162738</a>	SSENSTONE INC	Method, program, server, and wearable device for providing financial transaction on basis of wearable device
<a href="#">WO 2020174072</a>	EQUENSWORLDSLINES E	Change of reference pin code value of smart card by a mobile device and a distinct telecommunication device
<a href="#">WO 2020154600</a>	CAPITAL ONE SERVICES LLC	Tap to autofill card data
<a href="#">WO 2020167317</a>	VISA INT SERVICE ASS	Identity-based transaction processing
<a href="#">WO 2020167885</a>	JPMORGAN CHASE BANK NA	System and method for implementing vehicle-based payment tokenization
<a href="#">WO 2020142412</a>	TUNNEL INT INC	Methods, devices, and systems for secure payments
<a href="#">WO 2020180754</a>	SINGULARDTV GMBH	Decentralized digital content distribution system and process using block chains and encrypted peer-to-peer network
<a href="#">WO 2020146077</a>	GCOW INC	Systems and methods to facilitate providing a software development kit (sdk) for rewards for making gift card purchases to multiple application publishers
<a href="#">WO 2020152936</a>	TATSUNO CORP	Fueling station system, fueling device, and server

<a href="#">WO 2020153873</a>	SHEVCHENKO IGOR VLADIMIROVICH	Method for distance selling of merchandise
<a href="#">WO 2020163095</a>	MASTERCARD INTERNATIONAL INC	Non-default application selection during a transaction
<a href="#">WO 2020144665</a>	PEIKY SAS	Mobile device keyboard integrated sales platform
<a href="#">WO 2020180267</a>	TURKIYE GARANTI BANKASI ANONIM SIRKETI	An account link system
<a href="#">WO 2020169123</a>	ALIPAY LABS (SINGAPORE) PTE. LTD.	Blockchain-based smart contract pools
<a href="#">WO 2020159601</a>	MASTERCARD INTERNATIONAL INC	Data processing apparatuses and methods
<a href="#">WO 2020154297</a>	OTMAIL LLC	Automated time monitoring system and methods of use

[..ver más](#)

## BASADOS EN LA LOCALIZACIÓN

### Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

<a href="#">WO 2020130633</a>	SAMSUNG ELECTRONICS CO LTD	Location based operation method, electronic device and storage medium
<a href="#">WO 2020183659</a>	CHIBA INSTITUTE OF TECH	Information processing device and mobile robot
<a href="#">WO 2020144108</a>	SIGNIFY HOLDING BV	A controller, system and method for providing a location-based service to an area
<a href="#">WO 2020171908</a>	MICROSOFT TECHNOLOGY LICENSING LLC	Connecting spatial anchors for augmented reality
<a href="#">WO 2020131136</a>	GOOGLE LLC	Discovery and ranking of locations for use by geographic context applications
<a href="#">WO 2020123493</a>	SIDDIQUI QIRFIRAZ	Apparatus, systems, and methods for determining a geo-location
<a href="#">WO 2020180590</a>	BOSE CORP	Systems and methods for augmented reality content harvesting and information extraction
<a href="#">WO 2020180021</a>	SAMSUNG ELECTRONICS CO LTD	Electronic device and method for scanning channel to perform location-based service
<a href="#">WO 2020154589</a>	THOR TECH INC	Smart vehicle travel preparation and location-based servicing features for mobile device tools and methods of use
<a href="#">WO 2020144353</a>	UNIV MUENCHEN TECH	Method and system for tracking a mobile device
<a href="#">WO 2020167569</a>	COMMSCOPE TECHNOLOGIES LLC	Location determination in a cloud radio access network utilizing image data
<a href="#">WO 2020151719</a>	HUAWEI TECH CO LTD	Determining geographic location of a mobile device using sensor data
<a href="#">WO 2020146116</a>	NEXTNAV LLC	Systems and methods for determining a height of a mobile device above a surface

[..ver más](#)



## TELEVISIÓN MÓVIL

### Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

<a href="#">WO 2020132508</a>	ARRIS ENTPR LLC	Internet of things user interface simplification
<a href="#">WO 2020141545</a>	SLING MEDIA PVT LTD	Voice control for media content search and selection
<a href="#">WO 2020130591</a>	SAMSUNG ELECTRONICS CO LTD	Display apparatus
<a href="#">WO 2020149222</a>	SONY INTERACTIVE ENTERTAINMENT INC	Information processing system, information processing method and computer program
<a href="#">WO 2020149600</a>	SAMSUNG ELECTRONICS CO LTD	Electronic device and operation method thereof
<a href="#">WO 2020142011</a>	TURKCELL TEKNOLOJI ARASTIRMA VE GELISTIRME ANONIM SIRKETI	A system for interacting with user in mobile applications making tv broadcast
<a href="#">WO 2020122554</a>	SAMSUNG ELECTRONICS CO LTD	Display apparatus and method of controlling the same
<a href="#">WO 2020145536</a>	SAMSUNG ELECTRONICS CO LTD	Method for identifying external device by registering features of em signal and electronic device applying said method
<a href="#">WO 2020153766</a>	SAMSUNG ELECTRONICS CO LTD	Method for displaying visual information associated with voice input and electronic device

[..ver más](#)

## OTRAS REFERENCIAS

### Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

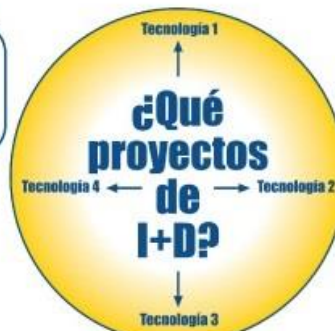
<a href="#">WO 2020130549</a>	SAMSUNG ELECTRONICS CO LTD	Electronic device and method for controlling electronic device
<a href="#">WO 2020142467</a>	PAYPAL INC	Intelligent display of location-specific graphics based on device metadata
<a href="#">WO 2020136892</a>	ROLAND CORP	Control device, electronic musical instrument system, and control method
<a href="#">WO 2020139915</a>	FACEBOOK TECH LLC	Head mounted display calibration using portable docking station with calibration target
<a href="#">WO 2020124535</a>	ORANGE	Method for operating an electronic device when playing an audiovisual content
<a href="#">WO 2020131345</a>	MICROSOFT TECHNOLOGY LICENSING LLC	Systems and methods of audio notification upon state change
<a href="#">WO 2020142567</a>	HED TECH SARL	Systems and methods for voice identification and analysis
<a href="#">WO 2020128501</a>	BARCLAYS EXECUTION SERVICES LTD	Twin display point of sale device
<a href="#">WO 2020185668</a>	AI CONCEPTS LLC	Intelligent recognition and alert methods and systems
<a href="#">WO 2020185447</a>	FACEBOOK TECH LLC	Systems and methods for dynamic scheduling
<a href="#">WO 2020139770</a>	TELEPATHY LABS INC	System and method for communicating with a user with speech processing
<a href="#">WO 2020150692</a>	SNAP INC	Systems and methods for template-based generation of personalized videos
<a href="#">WO 2020130691</a>	SAMSUNG ELECTRONICS CO LTD	Electronic device and method for providing information thereof
<a href="#">WO 2020177102</a>	SHENZHEN ROYOLE TECHNOLOGIES CO LTD	Foldable electronic device and audio output method therefor
<a href="#">WO 2020149366</a>	SONY INTERACTIVE ENTERTAINMENT INC	Information processing device
<a href="#">WO 2020180013</a>	SAMSUNG ELECTRONICS CO LTD	Apparatus for vision and language-assisted smartphone task automation and method thereof
<a href="#">WO 2020154312</a>	QUALCOMM INC	Methods and apparatus for standardized apis for split rendering
<a href="#">WO 2020143035</a>	SHENZHEN HEYTAP TECH CORP LTD	Service pushing method and related product
<a href="#">WO 2020149960</a>	MICROSOFT TECHNOLOGY LICENSING LLC	Finding complementary digital images using a conditional generative adversarial network
<a href="#">WO 2020154403</a>	JPMORGAN CHASE BANK NA	Method for protecting privacy on mobile communication device
<a href="#">WO 2020167856</a>	SONOS INC	Systems and methods for podcast playback
<a href="#">WO 2020162803</a>	FINGERPRINT CARDS AB	Acoustic fingerprint representation acquisition technique
<a href="#">WO 2020142041</a>	TURKCELL TEKNOLOJI ARASTIRMA VE GELISTIRME ANONIM SIRKETI	A system for triggering voice messaging in instant messaging applications
<a href="#">WO 2020171547</a>	SAMSUNG ELECTRONICS CO. LTD.	Method of managing multi tasks and electronic device therefor

<a href="#">WO 2020163217</a>	ADROIT WORLDWIDE MEDIA INC	Systems, method and apparatus for frictionless shopping
<a href="#">WO 2020166830</a>	SAMSUNG ELECTRONICS CO LTD	Display and electronic device including the same

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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.



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.



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