

# Boletín VT

## SERVICIOS E INTERFACES AVANZADOS MÓVILES

1.º trimestre 2018

# 33

### 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: 088-17-033-2

## Solicitudes de Patente Publicadas

Los datos que aparecen en la tabla corresponden a una selección de las solicitudes de patentes PCT publicadas durante el trimestre analizado. Se puede acceder al documento completo haciendo clic sobre el mismo.

### INTERFACES MÓVILES

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
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<a href="#">WO 2018006930 A1</a>	DANGY-CAYE NICOLAS	Wearable electronic device
<a href="#">WO 2018034958 A1</a>	ZHU ROBERT	Device manipulation using hover
<a href="#">WO 2018002492 A1</a>	FLOURY CÉDRIC	Method and device for assisting the composition of a new message
<a href="#">WO 2018005649 A1</a>	ANDREOU JACOB	Methods and systems for presentation of media collections with automated advertising
<a href="#">WO 2018022013 A1</a>	FANG JINGYI	Interactive geo-contextual navigation tool
<a href="#">WO 2018033686 A1</a>	LECA PHILIPPE	System for aiding navigation using visual and lateralized interfaces
<a href="#">WO 2018040502 A1</a>	SHI LEI	Screen control method and apparatus, terminal, and computer storage medium
<a href="#">WO 2018044626 A1</a>	RAINISTO ROOPE	Execution of task instances relating to at least one application
<a href="#">WO 2018031349 A1</a>	KARILAINEN ANTTI	Visual notification of events
<a href="#">WO 2018045127 A1</a>	ALLEY JULIA WESTON	Method and apparatus for pre-populating data fields in a graphical user interface
<a href="#">WO 2018042639 A1</a>	MUJIBIYA ADIYAN	Information processing device, information processing method, and program
<a href="#">WO 2018048700 A1</a>	JONES BRONWYN	Special lock mode user interface
<a href="#">WO 2017218201 A1</a>	BENNETT CORY WATSON	Device, method, and graphical user interface for changing the time of a calendar event
<a href="#">WO 2018044063 A1</a>	JO HANKYUNG	Method for providing visual effects according to bezel-based interaction and electronic device for same
<a href="#">WO 2018031353 A1</a>	LASLO ORI	Stylus with touch-sensitive retention clip
<a href="#">WO 2018043136 A1</a>	KATO AYUMI	Signal processing device, signal processing method, program, and electronic device
<a href="#">WO 2017218308 A1</a>	COOK JASON ANDREW	Drawing integration into e-mail system
<a href="#">WO 2018045133 A1</a>	HORBACH ULRICH	Variable acoustics loudspeaker
<a href="#">WO 2017222608 A1</a>	VELUSAMY SIVARAJ	Mobile device with unified media-centric user interface
<a href="#">WO 2018005064 A1</a>	POULOS ADAM GABRIEL	Interaction with virtual objects based on determined restrictions
<a href="#">WO 2018038962 A1</a>	KERR STEVEN J	A force-scalable stationary interface control
<a href="#">WO 2017223011 A1</a>	MARTINEZ DEL CORRAL DAVID	Emoji prediction by suppression
<a href="#">WO 2018005260 A1</a>	CAMPBELL JOHNNY S	Navigating long distances on navigable surfaces
<a href="#">WO 2018027551 A1</a>	YU XIAOBO	Message display method, user terminal and graphic user interface
<a href="#">WO 2018035729 A1</a>	ZHANG WEILIANG	Resource transfer method and device
<a href="#">WO 2018044069 A1</a>	KIM PIL WON	Answer providing method and electronic device supporting the same
<a href="#">WO 2018044697 A1</a>	BAER MATTHIAS	Group interactions
<a href="#">WO 2017218312 A1</a>	TRAN EMILY	Segment eraser
<a href="#">WO 2017219292 A1</a>	ZHENG WEIBIN	Method and device for displaying candidate words, and graphical user interface
<a href="#">WO 2018017310 A1</a>	JAIN RAJU	Cloud content states framework
<a href="#">WO 2018048931 A2</a>	ZHAO COLIN SHENGCAI	User interface analytics and context usage
<a href="#">WO 2018034555 A1</a>	KIM JOON HWAN	Electronic device and method for controlling display
<a href="#">WO 2018034963 A2</a>	COMERTOGLU CAN MEHMET	Interaction with a file storage service through a messaging bot

<a href="#">WO 2018005147 A1</a>	ZHOU BAILIANG	System and method for generating a geographic information card map
<a href="#">WO 2018026926 A1</a>	SONG YULING	Method and device for displaying application information
<a href="#">WO 2018029551 A1</a>	LAMONTAGNE JOEL	Methods and systems for displaying three dimensional digital asset information
<a href="#">WO 2018000382 A1</a>	YU LIANG	Graphical user interface and method for viewing application, and terminal
<a href="#">WO 2018001211 A1</a>	NI JING	Method for displaying information and terminal
<a href="#">WO 2018013469 A1</a>	FURMAN DANIEL	Method and system for providing a brain computer interface
<a href="#">WO 2018034546 A1</a>	KIM EUN SUN	Electronic device and method for providing information on work and personal life
<a href="#">WO 2018038874 A1</a>	LIM BING QIN	Systems and methods for text entry for multi-user text-based communication
<a href="#">WO 2017222901 A1</a>	MULTANI SHAVINDER SINGH	Enabling interaction with an external service feature
<a href="#">WO 2018017826 A1</a>	GOLDBERG ROMAN	Multiple workspace database engine
<a href="#">WO 2018026102 A1</a>	KONG KYU CHUL	Electronic device and operation method therefor
<a href="#">WO 2018037641 A1</a>	SUGIHARA KENJI	Information processing device, information processing method, and program
<a href="#">WO 2017214844 A1</a>	XIE ZHENYU	Apparatus and method for status indicating
<a href="#">WO 2017218104 A1</a>	FOLSE JENNIFER L C	Device-level authorization for viewing content
<a href="#">WO 2018025513 A1</a>	YOKOYAMA RYO	Information processing device, information processing method, and program
<a href="#">WO 2017213347 A2</a>	KIM CHAKYUM	Mobile device with touch screens and method of controlling the same
<a href="#">WO 2018013496 A1</a>	HOUSTON MATTHEW STEPHEN	Ad hoc item geo temporal location and allocation apparatuses, methods and systems
<a href="#">WO 2018029738 A1</a>	TASHIRO SAIKA	User interface control device and user interface control method
<a href="#">WO 2017218143 A1</a>	SMITH BENJAMIN A	Generating scenes based on accessory state
<a href="#">WO 2018030649 A1</a>	CHOI KYUNG DONG	Mobile terminal and method of controlling the same
<a href="#">WO 2018035564 A1</a>	MARTIN PAUL SIMON	Teleportation links for mixed reality environments
<a href="#">WO 2018036247 A1</a>	CHEN BIN	Lock-screen interface display method, terminal, and computer storage medium
<a href="#">WO 2018021764 A1</a>	CHOI YUJIN	Method for managing notification relating to application and electronic device therefor
<a href="#">WO 2018035772 A1</a>	LI HONGHUI	Display interface control method and device
<a href="#">WO 2018004779 A1</a>	COHEN RAFI	Tactile user interface
<a href="#">WO 2017213934 A1</a>	BLAHNIK JAY	Breathing sequence user interface
<a href="#">WO 2018016717 A1</a>	CHO JEONGSIK	Electronic device and email management method therefor
<a href="#">WO 2018008978 A1</a>	SHIN HYUNG-WOO	Method for recognizing iris based on user intention and electronic device for the same
<a href="#">WO 2018036111 A1</a>	ZHAO YONGLIANG	Information processing method and device
<a href="#">WO 2017217592 A1</a>	GUPTA AYUSHI	Method for providing notifications
<a href="#">WO 2018006129 A1</a>	BLANCHARD MEHDI	Gesture-based input command interface, method and system
<a href="#">WO 2018010823 A1</a>	LIU ANNIE	Obtaining a user input
<a href="#">WO 2018018076 A1</a>	FORTUNE RON	Creating videos with facial expressions
<a href="#">WO 2017213836 A1</a>	SANCIANGCO ALEXANDER D	Providing a remote keyboard service
<a href="#">WO 2017222293 A1</a>	LEE YOUNKYUNG	Display device and method of controlling therefor
<a href="#">WO 2017211475 A1</a>	AP DAFYDD GWYDION	User interface service transfer system
<a href="#">WO 2018005803 A1</a>	WU JUNLONG	Digital user interface with item selection
<a href="#">WO 2018010023 A1</a>	WISNIA JACK	Command relay device, system and method for providing remote assistance / remote control
<a href="#">WO 2018016741 A1</a>	LEE CHAEKYUNG	Notification information display method and device
<a href="#">WO 2018000257 A1</a>	YE NAN	Method and device for disambiguating which hand user involves in handling electronic device
<a href="#">WO 2017213776 A1</a>	RAYMANN ROY J E M	Scheduling customizable electronic notifications
<a href="#">WO 2017213935 A1</a>	DE VRIES NATHAN	Displaying and updating a set of application views
<a href="#">WO 2018015927 A1</a>	BANGARAMBANDI SUDHIR	A system and method for multilingual conversion of text data to speech data
<a href="#">WO 2017213899 A1</a>	WILSON CHRISTOPHER	Context-specific user interfaces
<a href="#">WO 2018006930 A1</a>	DANGY-CAYE NICOLAS	Wearable electronic device
<a href="#">WO 2018034958 A1</a>	ZHU ROBERT	Device manipulation using hover

<a href="#">WO 2018002492 A1</a>	FLOURY CÉDRIC	Method and device for assisting the composition of a new message
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<a href="#">WO 2018040502 A1</a>	SHI LEI	Screen control method and apparatus, terminal, and computer storage medium
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<a href="#">WO 2018031349 A1</a>	KARILAINEN ANTTI	Visual notification of events
<a href="#">WO 2018045127 A1</a>	ALLEY JULIA WESTON	Method and apparatus for pre-populating data fields in a graphical user interface
<a href="#">WO 2018042639 A1</a>	MUJIBIYA ADIYAN	Information processing device, information processing method, and program
<a href="#">WO 2018048700 A1</a>	JONES BRONWYN	Special lock mode user interface

[...ver más](#)

# SERVICIOS MÓVILES AVANZADOS

## REDES SOCIALES

### Nº PUBLICACIÓN SOLICITANTE CONTENIDO TÉCNICO

<a href="#">WO 2018042179 A1</a>	HACKETT CHRISTOPHER	Method and system for providing content
<a href="#">WO 2018027101 A1</a>	DAVIES GERAINT JOHN	Low-latency http live streaming
<a href="#">WO 2017218367 A1</a>	SCHWARZ JULIA	Altering properties of rendered objects via control points
<a href="#">WO 2018022853 A1</a>	LOUI ALEXANDER C	A method for dynamic creation of collages from mobile video
<a href="#">WO 2018018520 A1</a>	SUN QIUSHI	Grouping revocation method and grouping system
<a href="#">WO 2018005526 A1</a>	VERFAILLIE DAVID HENDRIK	Constructing social networks using monitored game play
<a href="#">WO 2018029702 A1</a>	SUMANGALI KIDAMBI VENKATESAN	Transformation of a content file into a content-centric social network
<a href="#">WO 2018031860 A1</a>	YOSHIDA KATHERINE	Geo-locating individuals based on a derived social network
<a href="#">WO 2018035863 A1</a>	CHENG RAYMOND SHU KWOK	A technique for allowing registered mobile users of the same or different social networks in the vicinity to use mobile devices of the same or different operation system to identify each other and exchange business information
<a href="#">WO 2017218758 A1</a>	VIGODA BENJAMIN W	Machine learning for automated organization system and method
<a href="#">WO 2018023432 A1</a>	BU XIAOFANG	Technical data collection method for contact management, and contact reminder system
<a href="#">WO 2018031557 A1</a>	HAQUE ZEESHANUL	Intermediary server to facilitate restrictive websites
<a href="#">WO 2018005119 A1</a>	KULKARNI ADITYA PRADIP	Dynamic creative optimization for effectively delivering content
<a href="#">WO 2017212499 A1</a>	MANN VIJAY	Systems and methods for storage space management and high availability of digital media on mobile devices
<a href="#">WO 2018023099 A1</a>	KOUFOGIANNAKIS CHRISTOS	Contextual entity analysis for electronic content delivery across a computer network
<a href="#">WO 2018031049 A1</a>	CHENG DEREK CHIRK YIN	Methods and systems for accessing third-party services within applications
<a href="#">WO 2018037740 A1</a>	ONO YUICHI	Storage medium for storing program, information processing method, and information processing terminal
<a href="#">WO 2018020291 A1</a>	ZHU ZHONGWEN	Content delivery network (cdn) for uploading, caching and delivering user content
<a href="#">WO 2018022894 A1</a>	DONALDS RACHAEL	Systems and methods for measuring and managing a physiological-emotional state
<a href="#">WO 2018023433 A1</a>	BU XIAOFANG	Method for pushing information during contact management, and contact reminder system
<a href="#">WO 2018010147 A1</a>	ZHANG LIANG	User feed with professional and nonprofessional content
<a href="#">WO 2018023431 A1</a>	BU XIAOFANG	Contact management method and contact reminder system
<a href="#">WO 2018023006 A1</a>	OCEAN ERICH ATLAS	Methods and systems for connecting users of social media networks through a network application using short range wireless communications
<a href="#">WO 2018004841 A1</a>	ELDREDGE JORDAN	Dynamic web document creation
<a href="#">WO 2018000190 A1</a>	MA ZHIGANG	Device and method for using different video formats in live video chat
<a href="#">WO 2017213467 A1</a>	SINGH AMANDEEP	Method and electronic device for managing notifications in a notification panel

[...ver más](#)

## PAGOS ELECTRÓNICOS MEDIANTE TERMINALES MÓVILES

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
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<a href="#">WO 2017218739 A1</a>	FIGLEIN HENRY	Fuel dispenser door lock and alarm control
<a href="#">WO 2018002349 A1</a>	GERAUD RÉMI	Method for authenticating payment data, corresponding devices and programs
<a href="#">WO 2018002626 A1</a>	UPADHYE NILESH	Communications device, point of sale device, payment device and methods
<a href="#">WO 2018004492 A1</a>	TAKMAKLI MURAT	Central unit communication and logistic system and assembly
<a href="#">WO 2018024980 A1</a>	BELLE ARNAUD	Method for implementing a transaction from an electronic transaction means
<a href="#">WO 2018031224 A1</a>	NIEHAUS BRYAN	Systems and methods for use in facilitating application of services for purchase transactions based on tokens
<a href="#">WO 2018043015 A1</a>	SEKIYA SHUICHI	Wireless communication device and payment system
<a href="#">WO 2018045134 A1</a>	GOODMAN DANIEL JASON	Method and system for cardless atm transaction via mobile device
<a href="#">WO 2018042533 A1</a>	SHINOHARA HIROSHI	Mobile terminal, information processing method, and information processing program
<a href="#">WO 2018048037 A1</a>	SEO SEONG WON	Dedicated ordering device, method and system for ordering product by means of same, and recording medium having computer program recorded therein
<a href="#">WO 2018049423 A1</a>	JAYARAM ARJUN	Multiparty reconciliation systems and methods
<a href="#">WO 2018049185 A1</a>	PAULIN ALAN	Processing a mobile payload
<a href="#">WO 2018048808 A1</a>	FERRERI ARNAUD NICOLAS	Self-checkout system for bypassing in-store checkout
<a href="#">WO 2018053024 A1</a>	SRIVASTAVA KUMAR S	Organizing datasets for adaptive responses to queries
<a href="#">WO 2017218795 A1</a>	WATSON DEVON	Unbanked safeload
<a href="#">WO 2018005475 A1</a>	TERRA DAVID	Preliminary transaction processing techniques
<a href="#">WO 2018011630 A1</a>	SANDELOV FRANK	Method for encrypting transactions at a dynamic transaction card
<a href="#">WO 2018017798 A1</a>	DHALA AMYN MOHAMED	Method and system for real-time controls on credit check requests
<a href="#">WO 2018034829 A1</a>	KOHLI MANONEET	Systems and methods for use in facilitating transactions
<a href="#">WO 2018042307 A1</a>	DHEEDENE NELSON	Method and system for the payment of a service and/or a product with respect to a vehicle location
<a href="#">WO 2018042669 A1</a>	KAI KIKUMI	Vending machine management system, vending machine management method, management device, mobile terminal, and program
<a href="#">WO 2017216494 A1</a>	ATANGANA MBELE EUGÈNE CÉDRIC	Method for selecting at least one electronic purse payment service offered by a financial institution
<a href="#">WO 2017218146 A1</a>	HUDSON SCOTT	Method and system for geofencing
<a href="#">WO 2017218490 A1</a>	PITZ CINDI	Method and system for real time fraud decisioning in transaction processing
<a href="#">WO 2018002631 A1</a>	YARDLEY ANDY	Linking of computer devices in tokenised payment transactions
<a href="#">WO 2018004589 A1</a>	FRIEDRICH ARI	Apparatus, system and method of internet connectivity via a relay station
<a href="#">WO 2018006060 A1</a>	ZOVI DINO DAI	Logical validation of devices against fraud and tampering
<a href="#">WO 2018013260 A1</a>	DAVIS STEVEN CHARLES	Method and system for node discovery and self-healing of blockchain networks
<a href="#">WO 2018022206 A1</a>	COLLINGE MEHDI	System and method for end-to-end key management
<a href="#">WO 2018026552 A1</a>	MEANEY ANDREW K	Mobile push payments
<a href="#">WO 2018042666 A1</a>	SHIMAMURA ATSUSHI	Information processing device, payment mediating server, payment mediating system, information processing method, and payment mediating method
<a href="#">WO 2018048546 A1</a>	WUDARU SRINIVASA	Method and system for browser-integrated generation of controlled payment numbers
<a href="#">WO 2018028834 A1</a>	PERL ANDRI	Intelligent, telematics-based, oem line fitted system for scaled, real-time risk-measurements / risk-score driven signaling and corresponding method thereof
<a href="#">WO 2018044951 A1</a>	TIAN CHENG	Expedited virtual currency transaction system
<a href="#">WO 2018045309 A1</a>	NELSON ANTHONY	Application, device and system for toll collection
<a href="#">WO 2018045115 A1</a>	MARTIN ERIC	System and method for providing mobile voice, data, and text services to subscribers using cryptocurrency
<a href="#">WO 2018022218 A1</a>	PHILLIPS SIMON	Data sharing with card issuer via wallet app in payment-enabled mobile device

<a href="#">WO 2018048553 A1</a>	ROBEEN ERICA JOANN	Systems and methods for providing notification services using a digital wallet platform
<a href="#">WO 2018048035 A1</a>	SEO SEONG WON	Dedicated ordering device, ap-based system and method for ordering product by means of same, and recording medium having computer program recorded therein
<a href="#">WO 2018026688 A1</a>	SETCHELL WILLIAM	Automatic hands free service requests
<a href="#">WO 2018024368 A1</a>	KAEHKOENEN MIKKO	Wireless payments using a wearable device
<a href="#">WO 2018031452 A1</a>	CAUWENBERGHS ALAIN	Method and system for a transportation mobility platform
<a href="#">WO 2018048730 A1</a>	ABDULRAHIMAN NAJEEB M	Express credential transaction system
<a href="#">WO 2018003969 A1</a>	NAGAI YUKI	Cash processing system, cash processing method, portable terminal and cash processing machine
<a href="#">WO 2018016841 A1</a>	YU MYEONG SANG	Service system using kiosk device, and method for providing service using kiosk device
<a href="#">WO 2018017014 A1</a>	FORTIN FREDERIC	Computer device for monitoring for fraudulent activity
<a href="#">WO 2018045212 A1</a>	SHER ROBERT	Network-leveraged real estate transaction assistance system and method
<a href="#">WO 2017218138 A1</a>	HOWARD KELVAN	Token aggregation system for multi-party transactions
<a href="#">WO 2018005966 A1</a>	SCHNEIDER TOBIAS	Smart data cable for point of sale systems
<a href="#">WO 2018022412 A1</a>	COLLINGE MEHDI	Mobile payment method and system
<a href="#">WO 2018027587 A1</a>	TAN ZHUFENG	System on chip and processing device
<a href="#">WO 2018031222 A1</a>	SABY BERTRAND	Faster digital wallet processing
<a href="#">WO 2018016840 A1</a>	YU MYEONG SANG	System and method for issuing electronic vouchers by using kiosk device
<a href="#">WO 2018027630 A1</a>	DONG FANGWEN	Mobile phone-based fingerprint verification method, and verification system
<a href="#">WO 2018035433 A1</a>	WILLIAMS RODGER K	Fuel dispensing environment utilizing improved wireless network topology
<a href="#">WO 2017213986 A1</a>	POTADAR SANTOSH SITARAM	Methods and apparatus for initiating a payment transaction by a missed call
<a href="#">WO 2017214349 A1</a>	BIDARI EMAD	Wireless communication systems with auxiliary antenna
<a href="#">WO 2017219559 A1</a>	SUN YINCHUAN	Mobile terminal and nfc payment control method
<a href="#">WO 2017222220 A1</a>	LEE CHANG JU	Simple mobile payment system
<a href="#">WO 2018008295 A1</a>	SEKIYA SHUICHI	Wireless communication device and wireless communication system
<a href="#">WO 2018008804 A1</a>	LEE SOO HO	Payment method using smart card
<a href="#">WO 2018017496 A1</a>	PHILLIPS SIMON	Dynamic screen logo that transmits shopping basket connection information to mobile device
<a href="#">WO 2017219988 A1</a>	XU TIANSONG	Payment method, payment terminal, and payment server
<a href="#">WO 2018034763 A1</a>	MOKHASI GAURAV SRIKANT	Dynamic cryptocurrency aliasing
<a href="#">WO 2018039113 A1</a>	GROARKE PETER	Systems and methods for consolidated message processing
<a href="#">WO 2017216672 A1</a>	THOMSEN TRINE MØRCH	Method of providing a financial transaction
<a href="#">WO 2018026528 A1</a>	BHATTACHARJEE MANASH	Method and system for risk based decisioning for one click checkout
<a href="#">WO 2018030767 A1</a>	CHOI HEE SIK	Asynchronous reverse payment management method using sound wave signal
<a href="#">WO 2018044282 A1</a>	WANG QUAN	Biometric identification and verification among iot devices and applications
<a href="#">WO 2018004311 A1</a>	LEE DONG-CHANG	System and method for transaction based on license plate number
<a href="#">WO 2018004137 A1</a>	KIM SUNG WANG	Payment method and electronic device for performing same
<a href="#">WO 2018016672 A1</a>	EIM SANGHYUN	Mobile terminal and method for controlling same
<a href="#">WO 2018021965 A1</a>	MOHANDAS KRISHNADAS	A system and method for making payment within a digital messaging environment
<a href="#">WO 2018022322 A1</a>	SHANMUGAM ELANGO VAN	Method and system for integrating discrete invoices into a personal financial management and bill payment system and then aggregating discrete invoices having the same payee business into a single payment transfer transaction
<a href="#">WO 2018026488 A1</a>	WANG QUAN	Token based network service among iot applications
<a href="#">WO 2018035642 A1</a>	YI XIAOYANG	Quick payment method of terminal in parking lot
<a href="#">WO 2018048692 A1</a>	CAMPERO RICHARD	Architecture for access management
<a href="#">WO 2017212339 A1</a>	LITTLE JULIAN EDWARD FORSYTH	System and method of communicating requests and responses using a communications network
<a href="#">WO 2018022850 A1</a>	SMETS PATRIK	Enhanced device interaction
<a href="#">WO 2018023437 A1</a>	BU XIAOFANG	Method for automatically recharging mobile phone bill, and mobile phone
<a href="#">WO 2018026587 A1</a>	CLARK JIMMIE R	Vehicle service kiosk system

<a href="#">WO 2018026057 A1</a>	SEOL JIE	Terminal and operating method therefor
<a href="#">WO 2018017015 A1</a>	PUEHSE TOBIAS	A system and method for authentication and making payment when carrying out on-demand manufacturing
<a href="#">WO 2018023609 A1</a>	TANG LONGCHU	Information notification method for paying metro fare at mobile phone end, and fare payment system
<a href="#">WO 2018026325 A1</a>	LEE KELVIN CHOR HWEE	System and method for controlling settlement
<a href="#">WO 2018027655 A1</a>	DONG FANGWEN	Ownership confirmation method for fingerprint verification technology, and verification system
<a href="#">WO 2018027629 A1</a>	DONG FANGWEN	Data acquisition method for fingerprint verification technology, and verification system
<a href="#">WO 2018035024 A1</a>	MONK JUSTIN	Systems and methods for enhanced authorization response
<a href="#">WO 2017210857 A1</a>	YAN YONGJIE	Method for improving information security and terminal
<a href="#">WO 2017211205 A1</a>	WANG CHAN	Method and device for updating whitelist
<a href="#">WO 2018004820 A1</a>	GADDAM SIVANARAYANA	Digital asset account management
<a href="#">WO 2018023438 A1</a>	BU XIAOFANG	Data collection method for automatic phone bill recharging technology, and mobile phone
<a href="#">WO 2018038914 A1</a>	SHEETS JOHN	Remote usage of locally stored biometric authentication data
<a href="#">WO 2017209767 A1</a>	HOWARD KELVAN	Subtoken management system for connected devices
<a href="#">WO 2017222470 A1</a>	LI JIAMING	Method and system to activate a mode of a service station
<a href="#">WO 2018001181 A1</a>	WEI XIAOPENG	Charging method and charging system
<a href="#">WO 2018004458 A1</a>	FORTIN FREDERIC	Method for effecting an authentication procedure associated with a service provider or an application
<a href="#">WO 2018013736 A1</a>	HOWE JUSTIN	Method and apparatus for optimizing authorization approval in a payment card transaction
<a href="#">WO 2018021523 A1</a>	MIZUNO HIRONORI	Photographing apparatus and photographing system
<a href="#">WO 2018022569 A1</a>	DOTTERWEICH ANDREW	Secure lockers for use as item exchange points
<a href="#">WO 2018023628 A1</a>	TANG LONGCHU	Mobile phone-based parking fee payment method, and fee payment system
<a href="#">WO 2018023629 A1</a>	TANG LONGCHU	Usage condition data collection method for parking fee payment technique, and fee payment system
<a href="#">WO 2017211203 A1</a>	ZHOU HUI	Information control method and device, mobile terminal and computer readable storage medium
<a href="#">WO 2017214816 A1</a>	CHEN SHIZHENG	Electronic commerce transaction method and system based network community virtual commodities
<a href="#">WO 2018004302 A1</a>	PARK KYUNG YANG	Payment system and method therefor
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<a href="#">WO 2018048579 A1</a>	JAIN AMIT	Robust reference signal time difference measurements
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<a href="#">WO 2018038826 A1</a>	GUM ARNOLD	Techniques for providing location-based health alerts based on biological indicators
<a href="#">WO 2018039092 A1</a>	RAGHAV AMRITANSH	Location based access control for artificial conversational entities
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<a href="#">WO 2017216125 A1</a>	BIEBER YANN	Methods, devices and system for generating a watermarked stream
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<a href="#">WO 2018026162 A1</a>	CHOI YOON HE	Electronic apparatus and method of operating the same
<a href="#">WO 2018039060 A1</a>	OJALA PASI SAKARI	Systems and methods for sourcing live streams
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<a href="#">WO 2018012729 A1</a>	SUDAKOV SERGEI	Display device and text recognition method for display device
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