

Diego Gonzalez

1) Family number: 28312337 (US2002122395A)

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**Title:** METHOD AND APPARATUS FOR IMPLEMENTING A MAC COPROCESSOR IN A COMMUNICATION SYSTEM

**Abstract:** Disclosed is a novel method and system for efficiently synchronizing, transmitting, and receiving data between a base station and a plurality of customer premises. A MAC coprocessor (MCP) is implemented, which works in conjunction with the MAC in order to produce a robust, high throughput communication system. The MAC coprocessor performs many of the tasks typically performed by prior art MAC's, including: during a downlink, storing a data frame, sorting the data frame according to modulation type or other criteria, determining when the data frame is full, and appending a set of CPE settings to the data frame. During an uplink, the MAC coprocessor receives all data and routes the data either to the MAC or a network backhaul. A MAC coprocessor may be used in both the base station and Customer Premises. In both the downlink and uplink processes, having a MAC coprocessor working in conjunction with the MAC may significantly increase the communication system's throughput.

**Classifications:**

**International (ipc 8-9):** H04J3/00 H04L H04L12/56

H04W88/08 (Advanced/Invention);

H04L12/28 H04W28/20 (Advanced/Non-invention);

H04J3/00 H04L12/56 H04W88/00 (Core/Invention);

H04L12/28 H04W28/16 (Core/Non-invention);

H04L (Subclass/Invention)

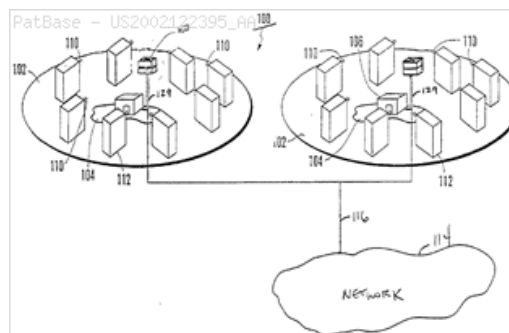
**International (ipc 1-7):** H04J1/00 H04J3/00 H04Q7/00

**CPC:** H04L47/14 H04L47/24 H04W28/20 H04W88/08

**European:** H04L47/14 H04L47/24 H04W12/067 H04W288/08

H04W36/08 H04W88/08 T04W228/20 T04W28/20

**US:** 370/235 370/328 370/329 370/329P 370/419 370/419S 712/34



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| AT443394 E         | 20091015         | AT20020075623T     | 20020304         |
| AT517488 E         | 20110815         | AT20020167781T     | 20020304         |
| AU2002242315 AA    | 20020919         | AU20020242315      | 20020304         |
| DE60223663 D1      | 20080103         | DE20026023663      | 20020304         |
| DE60223663 D1      | 20080103         | DE20026023663T     | 20020304         |
| DE60223663 T2      | 20081030         | DE20026023663T     | 20020304         |
| DE60233767 D1      | 20091029         | DE20026033767      | 20020304         |
| DE60240585 D1      | 20110915         | DE20026040585      | 20020304         |
| EP1374458 A1       | 20040102         | EP20020707949      | 20020304         |
| EP1374458 A4       | 20060712         | EP20020707949      | 20020304         |
| EP1374458 B1       | 20071121         | EP20020707949      | 20020304         |
| EP1850540 A1       | 20071031         | EP20070075623      | 20020304         |
| EP1850540 B1       | 20090916         | EP20070075623      | 20020304         |
| EP2112793 A1       | 20091028         | EP20090167781      | 20020304         |
| EP2112793 B1       | 20110720         | EP20090167781      | 20020304         |
| ES2331926 T3       | 20100120         | ES20070075623T     | 20020304         |
| ES2369676 T3       | 20111202         | ES20090167781T     | 20020304         |
| HK1110715 A1       | 20100129         | HK20080104806      | 20080430         |
| HK1110715 A1       | 20080718         | HK20080104806      | 20080430         |
| HK1110715 A3       | 20080718         | HK20080104806      | 20080430         |
| HK1110715 B        | 20100129         | HK20080104806      | 20080430         |
| HK1137270 A1       | 20111014         | HK20100103580      | 20100413         |
| HK1137270 A1       | 20100723         | HK20100103580      | 20100413         |
| HK1137270 B        | 20111014         | HK20100103580      | 20100413         |
| US2002122395 AA    | 20020905         | US20010800267      | 20010305         |
| US6459687 BA       | 20021001         | US20010800267      | 20010305         |
| WO02071665 A1      | 20020912         | WO2002US06437      | 20020304         |
| WO02071665 C1      | 20031224         | WO2002US06437      | 20020304         |

**Priority:**

US20010800267 20010305 EP20020707949 20020304 EP20070075623 20020304  
EP20090167781 20020304 WO2002US06437 20020304

**Probable Assignee:** WI LAN INC

**Assignee(s):** (std): STANWOOD KENNETH L ; ENSEMBLE COMMUNICATIONS INC ; WI LAN INC ; ENSEMBLE COMM INC

**Assignee(s):** REEVES MICHAEL G ; WI LAN INC OTTAWA ; QUARTERHILL INC ; ENTERPRISE PARTNERS VI LP ; ENTERPRISE PARTNERS IV LP ; CRESCENDO III LP ; AMPERSAND 1999 COMPANION FUND LTD ; AMPERSAND 1999 COMPANION FUND PARTNERSHIP LTD ; AMPERSAND 1999 LTD ; AMPERSAND 1999 PARTNERSHIP LTD ; AMPERSAND 2001 COMPANION FUND LTD ; AMPERSAND 2001 MANAGEMENT CO LTD ; CRESCENDO II LP ; CRESCENDO III EXECUTIVE FUND LP ; CRESCENDO III GBR ; AMPERSAND 2001 LTD ; BOURLAS YAIR ; COHEN LEWIS N ; AMPERSAND 2001 COMPANION FUND PARTNERSHIP LTD ; AMPERSAND 2001 MANAGEMENT CO LIABILITY CO LTD ; AMPERSAND 2001 PARTNERSHIP LTD

**Inventor(s):** (std): BOURLAS YAIR ; COHEN LEWIS N ; REEVES MICHAEL G ; STANWOOD KENNETH L ; REEVES MICHAEL N

**Inventor(s):** REEVES MICHAEL N SAN DIEGO ; COHEN LEWIS N SAN DIEGO ; STANWOOD KENNETH L SAN DIEGO ; BOURLAS YAIR SAN DIEGO ; YAIR BOURLAS ; LEWIS N COHEN ; MICHAEL N REEVES ; KENNETH L STANWOOD

**Agent(s):** KILBURN AND STRODE LLP; HARDING RICHARD PATRICK; TALBOT PONSONBY DANIEL FREDERICK; DEACONS; MARKS AND CLERK

**Designated states:** AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW

**2) Family number: 31873573 (US2005097046A)** © PatBase

**Title:** WIRELESS ELECTRONIC CHECK DEPOSIT SCANNING AND CASHING MACHINE WITH WEB-BASED ONLINE ACCOUNT CASH MANAGEMENT COMPUTER APPLICATION SYSTEM

**Abstract:** Wireless Electronic Check Deposit Scanning and Cashing Machine (also known and referred to as WEDS) Web-based Online account cash Management computer application System (also known and referred to as OMS virtual/live teller)-collectively invented integrated as "WEDS.OMS" System. Method and Apparatus for Depositing and Cashing Ordinary paper and/or substitute checks and money orders online Wirelessly from home/office computer, laptop, Internet enabled mobile phone, pda (personal digital assistant) and/or any Internet enabled device. WEDS enables verification and transmittal of image, OMS is the navigation tool used to set commands and process requests, integrated with WEDS, working collectively as WEDS.OMS System.

**Classifications:**

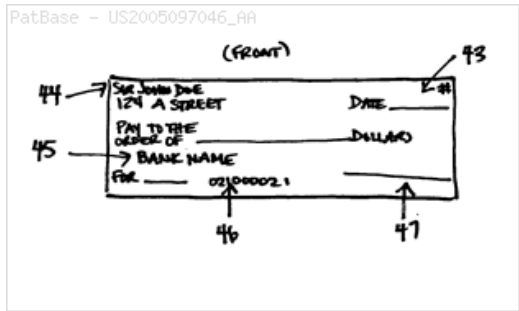
**International (IPC 8-9):** G06Q20/10 G07F19/00 (Advanced/Invention); G07F19/00 (Core/Invention)

**International (IPC 1-7):** G06F17/60

**CPC:** G06Q20/1085 G06Q20/042 G06Q20/108 G06Q20/40 G07F19/20 G07F19/202

**European:** G06Q20/042 G06Q20/108 G06Q20/1085 G06Q20/40 G07F19/00F G07F19/20 G07F19/202

**US:** 705/42 705/42P 705/43 705/43S 705/44 705/44S



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| US2005097046 AA    | 20050505         | US20040918898      | 20040816         |
| US2013103582 AA    | 20130425         | US20120495971      | 20120613         |

**Priority:**

US20030515912P 20031030      US20030532416P 20031223      US20040918898 20040816  
US20120495971 20120613

**Probable Assignee:** CLISE TIMOTHY B

**Assignee(s):** (std): SINGFIELD JOY SHANTIA

**Assignee(s):** CLISE TIMOTHY B ; SINGFIELD JOY S

**Inventor(s):** (std): SINGFIELD JOY SHANTIA ; SINGFIELD JOY S

**Inventor(s):** SINGFIELD JOY

**Agent(s):** JOY S SINGFIELD

**3) Family number: 59940258 (US2015215912A)** © PatBase

**Title:** DISCONTINUOUS RECEPTION ALIGNMENT IN DUAL CONNECTIVITY NETWORKS

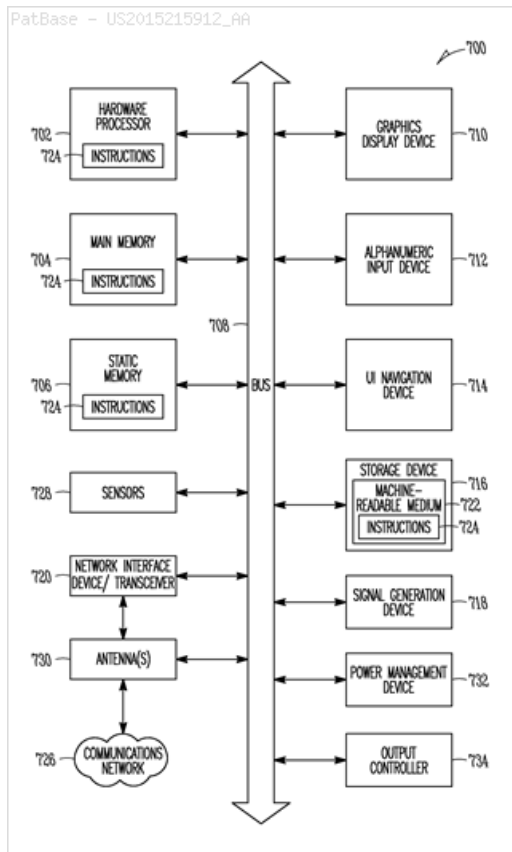
**Abstract:** A 3GPP LTE protocol enhancement realizes the full benefit of discontinuous reception (DRX) in Long Term Evolution networks by coordinating and aligning DRX operations for conserving power and timing overhead. A dual connectivity enabled User Equipment (UE) comprising a processor and transceiver is configured to align DRX configuration between counterpart Evolved Node Bs (eNB)s, wherein counterpart eNBs are a Master eNB (MeNB) and a Secondary eNB (SeNB) simultaneously connected to the UE, communicate system frame timing and system frame number (SFN) information between the counterpart eNBs, align DRX start offset (drxStartOffset) values for the counterpart eNBs according to the communicated system frame timing and SFN information to compensate for offsets in system frame timing, and allow the start of a DRX ON duration at specific frame or sub-frame times determined by the drxStartOffset values, after the expiration of a DRX inactivity timer.

**Classifications:**

**International (IPC 8-9):** H04L5/00 H04W52/02 H04W72/04 H04W76/00 H04W76/04 H04W76/28 (Advanced/Invention); H04W76/02 H04W76/15 H04W88/06 (Advanced/Non-invention)

**CPC:** H04W52/0216 H04L5/0091 H04W88/06 H04W52/0212 Y02B70/30 H04W76/28 H04W76/15 Y02D70/00 H04W76/048 H04W76/025 Y02B60/50 Y02D70/122 Y02D70/1262 Y02D70/1264 Y02D70/142 Y02D70/144 Y02D70/146 Y02D70/164 Y02D70/166 Y02D70/22 Y02D70/24

**US:** 1/1 370/239 370/311

**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| US2015215912 AA    | 20150730         | US20140528755      | 20141030         |
| US2017041983 AA    | 20170209         | US20160332754      | 20161024         |
| US2018352603 AA    | 20181206         | US20180988280      | 20180524         |
| US9872334 BB       | 20180116         | US20140528755      | 20141030         |
| US10004107 BB      | 20180619         | US20160332754      | 20161024         |

**Priority:**

US20140933862P 20140130      US20140528755 20141030      US20160332754 20161024  
 US20180988280 20180524

**Probable Assignee:** INTEL CORP**Assignee(s):** (std): INTEL CORP ; JHA SATISH CHANDRA ; KOC ALI T ; SIVANESAN KATHIRAVETPILLAI ; VANNITHAMBY RATH**Inventor(s):** (std): SIVANESAN KATHIRAVETPILLAI ; VANNITHAMBY RATH ; JHA SATISH CHANDRA ; KOC ALI T**Agent(s):** SCHWEGMAN LUNDBERG AND WOESSNER PA**4) Family number: 72982333 (US2019023140A)**

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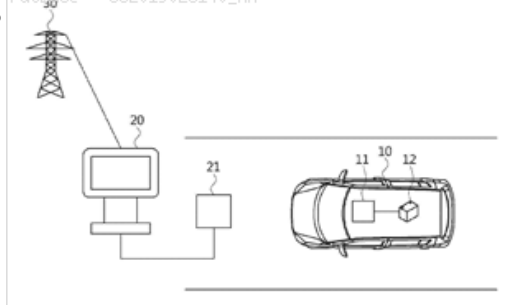
**Title:** WIRELESS COMMUNICATION METHOD AND APPARATUS FOR WIRELESS POWER TRANSFER TO ELECTRIC VEHICLE

**Abstract:** A wireless communication method for wireless power transfer (WPT) to an electric vehicle (EV) may include: transmitting, by a wireless charging control apparatus equipped in the EV, a probe request frame to a charging station, the probe request frame including identification information of an access point (AP) pre-stored in the wireless charging control apparatus; receiving, at the wireless charging control apparatus, a probe response frame from the charging station corresponding to the identification information; performing, by the wireless charging control apparatus, authentication for wireless connection initialization by transmitting first authentication information to the charging station; and after the authentication for the wireless connection initialization is completed, performing, by the wireless charging control apparatus, user authentication for WPT using second authentication information pre-stored in the wireless charging control apparatus.

**Classifications:**

**International (IPC 8-9):** B60L11/18 B60L50/50 B60L53/12 B60L53/66 H02J50/12 H02J7/02 H04W12/06 H04W4/44 (Advanced/Invention)  
**CPC:** B60L11/1829 H02J7/025 H02J50/12 B60L53/12 B60L53/38 B60Y2200/91 Y02T90/122 H02J50/80 B60L53/126 B60L53/65 B60L53/68  
**US:** 1/1 320/109

PatBase - US2019023140\_AA

**Family:**

| Publication number | Publication date | Application number | Application date |
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| CN110014903 A   | 20190716 | CN201810823318 | 20180724 |
| KR20190011187 A | 20190201 | KR20180073753  | 20180627 |
| US2019023140 AA | 20190124 | US20180043552  | 20180724 |

**Priority:**

KR20170093710 20170724 KR20180073753 20180627

**Probable Assignee:** HYUNDAI MOTOR CO

**Assignee(s):** (std): HYUNDAI MOTOR CO LTD ; KIA MOTORS CO ; KIA MOTORS CORP

**Assignee(s):** KIA MOTORS CORPORATION ; HYUNDAI MOTOR COMPANY ; HYUNDAI MOTOR CO

**Inventor(s):** (std): KIM ZEUNG IL ; JEON BYUNG SEUNG

**5) Family number: 61064031 (US2015356660A)**

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**Title:** SIMPLIFIED ORDERING UPON ENTERING PREMISES

**Abstract:** A computing system includes an on-premises server system and on-premises wireless access point (WAP) providing wireless local area network (WLAN) coverage to the physical premises of a store. The computing system obtains an identifier of a wireless device included in wireless communications received from a wireless device via the on-premises WAP over the WLAN. The computing system identifies a target customer profile from among customer profiles stored at a database based on the identifier of the wireless device associated with the target customer profile. The computing system determines an in-store message that identifies a recommended on-sale item that is selected based on the target customer profile. The in-store message is sent to the wireless device that identifies the recommended on-sale item and includes a selector that enables the customer to purchase the item using the customer's financial information previously associated with the target customer profile.

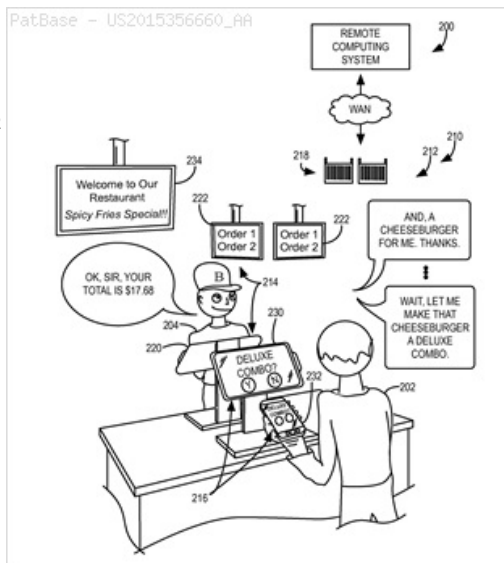
**Classifications:**

**International (IPC 8-9):** G06F3/0484 G06Q10/06 G06Q20/20 G06Q30/02 G06Q30/06 G06Q50/12 H04L29/08 H04W4/02 (Advanced/Invention)

**CPC:** G06Q30/0631 G06Q30/0281 G06Q30/0255 G06Q30/0261 G06Q30/0267 G06Q30/0269 G06Q30/0641 G06Q30/0623 G06Q50/12 H04W4/023 H04W84/12 H04L67/306 G06Q20/202 G06Q10/06 G06Q20/3224 H04L61/106 G06Q20/405 H04W4/029 G06F16/25

**US:** 705/14.53 705/14.58 705/15 705/21 705/26.7 705/27.1 705/342

PatBase - US2015356660\_AA



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| US2015356660 AA    | 20151210         | US20140559720      | 20141203         |
| US2015356668 AA    | 20151210         | US20140488287      | 20140917         |
| US2015356694 AA    | 20151210         | US20140474546      | 20140902         |
| US2015358423 AA    | 20151210         | US20140488276      | 20140916         |

**Priority:**

US20140010424P 20140610 US20140474546 20140902 US20140488276 20140916  
US20140488287 20140917 US20140559720 20141203

**Probable Assignee:**

ALLEMAN MARK D

**Assignee(s):** (std):

ALLEMAN MARK D ; L HEUREUX ISRAEL

**Inventor(s):** (std):

ALLEMAN MARK D ; L HEUREUX ISRAEL

**6) Family number: 69022200 (US2018092107A)**

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**Title:** ON THE FLY SCHEDULING AND POWER SAVING

**Abstract:** Methods and devices are described in which an access point of a wireless network sends rendezvous time information to one or multiple associated stations. The rendezvous time information indicates a point in time at which the access point will try to access the wireless channel and schedule traffic for the stations. Based on that information, the stations will be able to decide if it is worth going into sleep mode until that rendezvous time or if it should stay awake.

**Classifications:**

**International (IPC 8-9):** H04W52/02 H04W72/12 (Advanced/Invention)

**CPC:** H04B7/0452 H04L27/2602 H04W72/1289 H04W74/04 H04W52/0225 Y02D70/00 Y02D70/1242 Y02D70/1262 Y02D70/142 Y02D70/144 Y02D70/146 Y02D70/164 Y02D70/166 Y02D70/22

**US:** 1/1 370/329



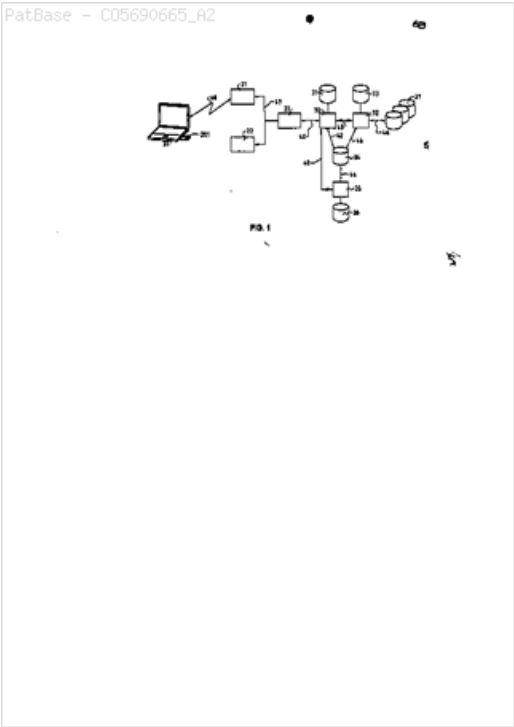
**Inventor(s):** OMAR B HAKIM  
**Agent(s):** NTD PATENT AND TRADE MARK AGENCY LTD  
**Designated states:** AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG UZ VN YU ZW

**8) Family number: 44995785 (CO5690665A)** © PatBase

**Title:** METODO Y SISTEMA PARA FACTURACION GSM DURANTE LA NAVEGACION EN WLAN METHOD AND SYSTEM FOR GSM BILLING DURING WLAN NAVIGATION (Machine translation)

**Abstract:** Source: CO5690665A [ES] 1.- Metodo apoyado por computadora para el registro y facturacion de prestaciones en la navegacion de un nodo IP movil en WLANs heterogeneas, siendo que el nodo IP movil accede a un punto de acceso de una WLAN a traves de una interfaz inalambtrica dentro de un area de servicio basica de una WLAN, siendo que el area de servicio basica de la WLAN comprende uno o varios puntos de acceso asociados a un servidor de acceso, en los que a una peticion del servidor de acceso el nodo IP movil transmite al servidor de acceso una IMSI almacenada en una tarjeta SIM del nodo IP movil, y la IMSI del nodo IP se almacena en una base de datos del modulo SIM-RADIUS, caracterizado porque un modulo SIM-RADIUS mediante una base de datos de usuarios SIM y un modulo de compuerta SIM complementa de manera especifica al usuario el canal de datos IP logico de la WLAN para obtener datos GSM correspondientes para los canales de senal y datos de una red GSM, siendo que la autentificacion y/o autorizacion de servicio del nodo IP movil se lleva a cabo en un HLR y/o VLR de una red GSM con base en la IMSI de la tarjeta SIM del nodo movil, porque un modulo de facturacion accede al servidor de acceso mediante una interfaz de compuerta de computacion, siendo que los primeros registros de detalle de llamada del nodo IP movil son transmitidos por el servidor de acceso al modulo de facturacion, ysiendo que la interfaz de la compuerta de facturacion comprende asociada una base de datos de administracion de facturacion con el perfil de configuracion de cada servidor de acceso, porque los segundos registros de detalle de llamada del nodo IP movil se transmiten a un modulo proximo,... **Machine translation:** 1. Method supported by computer for recording and billing of services in the navigation of a mobile IP node in heterogeneous WLANs, being that the mobile IP node accesses an access point of a WLAN through an interface Wireless within a basic service area of a WLAN, with the basic service area of the WLAN comprises one or more access points associated to an access server, which server to request access the mobile IP node it transmits the IMSI access server stored in a SIM card of the mobile IP node, and the IMSI of the IP node is stored in a database of the SIM-RADIUS module, characterized in that a SIM-RADIUS module with a database of users SIM and SIM gateway module complements so the user specifies the logical IP data channel of the WLAN for corresponding GSM data for signal and data channels of a GSM network, with the authentication and / or authorization of service mobile IP node is performed in an HLR and / or VLR of a GSM network based on the IMSI of the SIM card of the mobile node, because a billing module accesses the access server via an interface gate of computation, being the first records call detail the mobile IP node are transmitted by the access server to the billing module, ysiendo the interface of the gate billing includes an associated database management billing with the configuration profile of each access server, that the second call detail records of the mobile IP node is transmitted to a next module,...

**Classifications:**  
**International (IPC 8-9):** H04L12/28 (Advanced/Invention);  
H04L12/28 (Core/Invention)



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| CO5690665 A2       | 20061031         | CO20050013935      | 20050216         |

**Priority:**

CO20050013935 20050216

**Probable Assignee:** TOGEWA HOLDING AG  
**Assignee(s):** (std): TOGEWA HOLDING AG  
**Inventor(s):** (std): STADELMANN TONI ; CONN JEREMY RICHARD

**9) Family number: 59687730 (US2015195670A)** © PatBase

**Abstract:** A method and apparatus for physically secure communication over machine-to-machine (M2M) networks is claimed, through the use of frequency-hop and random access spread spectrum modulation formats employing using truly random spreading codes and time/frequency hopping and receiver selection strategies at the transmitters in the M2M network, blind signal detection and linear signal separation techniques at the receivers in the M2M network, completely eliminating the ability for an adversary to predict and override M2M transmissions. Additional physical security protocols are also introduced that allow the network to easily detect and identify spoofing transmissions on uplinks and downlinks, and to automatically excise those transmissions as part of the despreading procedure, even if those transmissions are received at a much higher power level than the intended transmissions. Extensions to weakly and strongly macrodiverse networks are also described, which provide additional efficiency and security improvements by exploiting the route diversity of the network.

**Classifications:**

**International (IPC 8-9):** H04B1/00 H04B1/692 H04B1/7103  
H04B1/715 H04B1/7156 H04J13/00 H04W4/00

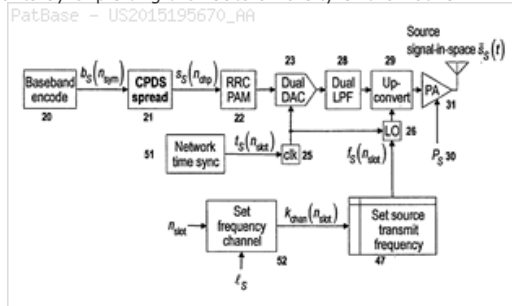
H04W4/70 (Advanced/Invention);

H04B1/715 (Advanced/Non-invention)

**CPC:** H04B2001/7154 H04B1/7103 H04B1/692 H04J13/0007

H04W4/005 H04W4/70 H04B1/7156 H04B1/69

**US:** 1/1 375/133 375/144

**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| US2015195670 AA    | 20150709         | US20140999040      | 20140106         |
| US2016365892 AA    | 20161215         | US20160246121      | 20160824         |
| US2018269926 A9    | 20180920         | US20160246121      | 20160824         |
| US2019158998 AA    | 20190523         | US20180161539      | 20181016         |
| US2019320303 AA    | 20191017         | US20180160764      | 20181015         |
| US9648444 BB       | 20170509         | US20140999040      | 20140106         |
| US10154397 BB      | 20181211         | US20160246121      | 20160824         |

**Priority:**

US20130848463P 20130105 US20130849745P 20130201 US20140999040 20140106  
US20160246121 20160824 US20180160764 20181015 US20180161539 20181016

**Probable Assignee:** AGEE BRIAN G

**Assignee(s):** (std): AGEE BRIAN G

**Inventor(s):** (std): AGEE BRIAN G

**Agent(s):** GEORGE S; USEFUL ARTS IP

**10) Family number: 60453963 (US2015277586A)**

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**Title:** INTERACTIVE INPUT SYSTEM, INTERACTIVE BOARD THEREFOR AND METHODS

**Abstract:** An interactive board comprises an interactive surface; at least one user selectable element; and processing structure in communication with at least one imaging device and configured to process data received from said at least one imaging device to locate at least one pointer positioned in proximity with said interactive surface and update digital ink according to pointer location, said processing structure being further configured to send said digital ink to one or more devices in communication with the interactive board in response to selection of said at least one user selectable element.

**Classifications:**

**International (IPC 8-9):** G06F3/03 G06F3/0354 G06F3/038  
G06F3/042 G06F3/0481 G06F3/0484 G06F3/0488 H04B5/00

H04W4/00 (Advanced/Invention);

H04W4/00 (Advanced/Non-invention)

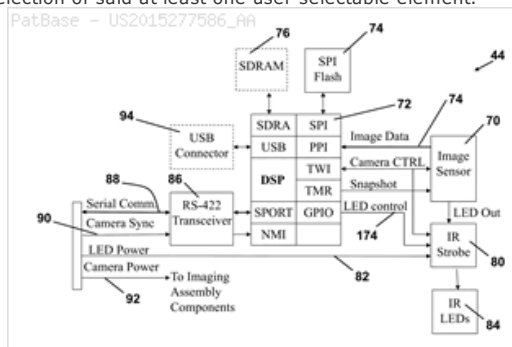
**CPC:** G06F3/0383 G06F3/03545 G06F3/04812 G06F3/04842

G06F3/04883 G06F3/0308 G06F3/0325 G06F3/03542 G06F3/0421

G06F3/0428 G06F3/04817 G06F2203/04106 G06F2203/04108

G06F2203/04807 H04W4/80

**US:** 345/157

**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| CA2885353 AA       | 20150930         | CA20152885353      | 20150318         |
| DE602015019701 D1  | 20181206         | DE201560019701T    | 20150320         |
| EP2927786 A1       | 20151007         | EP20150160138      | 20150320         |
| EP2927786 B1       | 20181114         | EP20150160138      | 20150320         |
| US2015277586 AA    | 20151001         | US20140231154      | 20140331         |
| US9600101 BB       | 20170321         | US20140231154      | 20140331         |

**Priority:**

US20140231154 20140331 EP20150160138 20150320

**Probable Assignee:** SMART TECHNOLOGIES ULC

**Assignee(s):** (std): SMART TECHNOLOGIES ULC ; SMART TECH ULC

**Assignee(s):** SMART TECHNOLOGIES ULC CALGARY ; TARNG STANLEY ; SCHANNE TIM ; SIROTICH ROBERTO ; TRENHOLM BOYLE MICHAEL ; WRIGHT JOE ; BARKLEY WARREN ; GAYDON NEIL ; MCREYNOLDS DANIEL P ; ROSS EVAN

**Inventor(s):** (std): TARNG STANLEY ; SCHANNE TIM ; SIROTICH ROBERTO ; MCREYNOLDS DANIEL P ; TRENHOLM BOYLE MICHAEL ; BARKLEY WARREN ; ROSS EVAN ; GAYDON NEIL ; WRIGHT JOE

**Inventor(s):** TRENHOLM BOYLE MICHAEL CALGARY ; SIROTICH ROBERTO CALGARY ; WRIGHT JOE CALGARY ; MCREYNOLDS DANIEL P CALGARY ; SCHANNE TIM CALGARY ; TARNG STANLEY CALGARY ; ROSS EVAN CALGARY ; BARKLEY WARREN CALGARY ; GAYDON NEIL CALGARY

**Agent(s):** SIM AND MCBURNEY; MLT AIKINS LLP; NAISMITH ROBERT STEWART; PERKINS COIE LLP

**Designated states:** AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

**11) Family number: 33589908 (KR20060003560A)**

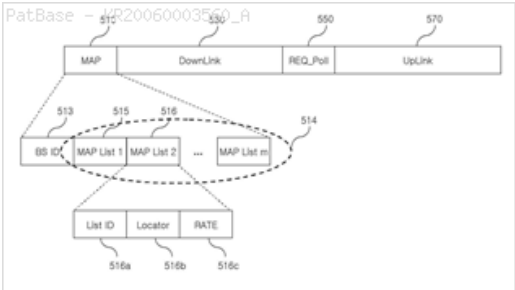
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**Title:** MAC PROTOCOL STRUCTURE FOR FIXED WIRELESS BACKHAUL SYSTEM

**Abstract:** Source: KR100706990B **Machine translation:** The invention of fixed wireless access equipment seen MAC protocol support wireless communication between the system and its fixed wireless access equipment for. The invention of the wireless local area network (Wireless LAN) I saw system efficient for data transmission TDMA (Time Division Multiple Access: time division multiple access) MAC (Media Access Control) standard method of wireless LAN and the polling request (Polling Request), piggy-back piggyback requests (Piggyback Request) and output (Piggy ACK), fixed wireless access equipment by applying to heighten the efficiency of fixed wireless access, data transfer between MAC Protocol between the structure, the equipment, the underframes (Sub-Frame) to store the location and configuration information for the map (MAP) received from the wireless base station transmit wireless base station field; sent to download data (One or more of the stored DATA) each containing 1 sub-frame downlink (DownLink) field; Send wireless base station, and wireless base stations of the radio transmission equipment to receive the necessary information on the size of the bandwidth or rate, sub-frame by asking Paul requests assigned field; And receive wireless base stations transmitting from the wireless base station are sent to upload data (DATA) contains one or more second sub-frame upward links (UpLink) to include the field. According to this invention, WLAN system efficient for data transmission TDMA MAC Protocol based on the WLAN and the way polling request, piggyback piggyback the request and output by applying a fixed wireless access equipment to improve the efficiency of data transfer between effects. Keywords MAC protocols, wireless access equipment, wireless base stations, polling requests, piggyback, piggy-back output

**Classifications:**

**International (IPC 8-9):** H04L12/46 H04L29/06 (Advanced/Invention); H04L12/46 H04L29/06 (Advanced/Non-invention); H04L12/46 H04L29/06 (Core/Invention)  
**CPC:** H04L29/06 H04L12/46 H04L69/26 H04L1/1664 H04L1/1809 H04L69/03 H04W74/06



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| KR100706990 B1     | 20070411         | KR20040052469      | 20040706         |
| KR20060003560 A    | 20060111         | KR20040052469      | 20040706         |

**Priority:**

KR20040052469 20040706

**Probable Assignee:** SK TELECOM CO LTD

**Assignee(s):** (std): SK TELECOM CO LTD

**Assignee(s):** SK TELECOM CO

**Inventor(s):** (std): CHUNG WON SUK ; LEE DONG HAHK ; PARK SEONG SOO ; LEE SANG SHIN ; LEE JOO SIK ; LEE MYUNG SUNG ; WOO DAE SIC

**12) Family number: 32218611 (US2005195975A)**

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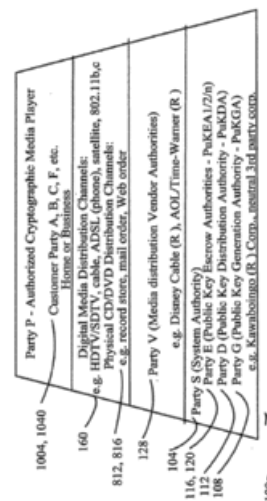
**Title:** DIGITAL MEDIA DISTRIBUTION CRYPTOGRAPHY USING MEDIA TICKET SMART CARDS

**Abstract:** Fig. 7 of the drawings depicts an overall view of this invention which relates to a new method or process for a system used to do digital media distribution in an architecture of public key cryptography called the digital media distribution cryptography architecture (100) which is implemented in computer hardware, computer software, and communications protocols, furthermore, the hardware components involved are media ticket smart cards (880), media ticket smart card readers (900), local area networks (924) (LAN's), internet protocol (IP) wide area networks (928) (WAN's), personal computers (820) (PC's), world wide web servers (824) (WWW), cryptographic media players (e.g. crypto-MP3 players) with built-in media ticket smart card readers (880), (900), (1004), cryptographic digital signal processors (932) (C-DSP's), furthermore, the software components involved are cryptographic key distribution programs, cryptographic mathematics algorithms, and cryptographic protocols.

**Classifications:**

**International (IPC 8-9):** H04K1/00 (Advanced/Invention); H04K1/00 (Core/Invention)  
**International (IPC 1-7):** H04K1/00  
**CPC:** H04L9/0822 H04L9/0825 H04L9/083 H04L9/085 H04L9/0897 H04L9/14 H04L9/30 H04L9/3213 H04L9/3226 H04L9/3234 H04L9/3236 H04L2209/30 H04L2209/60  
**European:** H04L9/08F2B H04L9/08F2D H04L9/08F2H H04L9/08F6 H04L9/08V2 H04L9/14 H04L9/30 H04L9/32D2 H04L9/32J H04L9/32K H04L9/32L T04L209/30 T04L209/60  
**US:** 380/30 380/30P

FIG. 1 - PYRAMID OF CRYPTOGRAPHY LAYERS

**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| US2005195975 AA    | 20050908         | US20040755624      | 20040706         |

**Priority:**

US20030441189P 20030121 US20040755624 20040706

**Probable Assignee:** KAWABOINGO CORP

**Assignee(s):** KAWABOINGO CORP ; KAWAKITA KEVIN

**Inventor(s):** (std): KAWAKITA KEVIN

**Agent(s):** KEVIN KAWAKITA

**13) Family number: 63117459 (US2016234720A)**

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**Title:** WLAN RATE ESTIMATION

**Abstract:** Methods, systems, and devices are described for estimating wireless local area network (WLAN) capacity. In accordance with the present disclosure, one or more applications associated with a mobile device may request WLAN capacity estimation in order to maximize the use of available network resources. In some examples, the mobile device may obtain WLAN information from a WLAN modem driver associated with a WLAN modem via an application program interface (API) to calculate the WLAN capacity. The WLAN capacity may include capacity of an access point (AP) associated with the mobile device to support additional users or data over one or more downlink and/or uplink channels. Accordingly, the mobile device may optimize data download or upload times by efficiently managing the available resources.

**Classifications:**

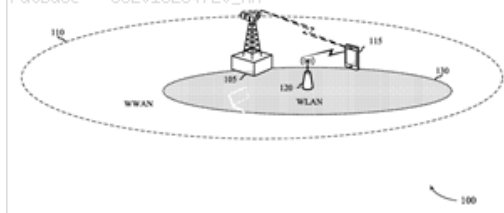
**International (IPC 8-9):** H04W28/16 H04W36/14

H04W84/12 (Advanced/Invention)

**CPC:** H04W84/12 H04W72/00 H04W28/22 H04W28/0205

**US:** 1/1 370/338

PatBase - US2016234720\_AA

**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| US2016234720 AA    | 20160811         | US20150850647      | 20150910         |
| WO16130276 A1      | 20160818         | WO2016US13609      | 20160115         |

**Priority:**

US20150114453P 20150210 US20150850647 20150910

**Probable Assignee:** QUALCOMM INC

**Assignee(s):** (std): QUALCOMM INC

**Inventor(s):** (std): VENKATACHALAM JAYARAMAN VENKATA RAMANAN ; ZHANG DAN ; BARANY PETER ; RAVICHANDRAN DIVYA ; KAPOOR ROHIT

**Agent(s):** BINDSEIL JAMES J ET AL

**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

**Title:** ZERO-CONFIGURATION SECURE MOBILITY NETWORKING TECHNIQUE WITH WEB-BASE AUTHENTICATION INTERFACE FOR LARGE WLAN NETWORKS

**Abstract:** A zero-configuration secure mobility networking technique for WLANs is provided, utilizing split link-layer and a Web-based authentication. The link-layer authentication process facilitates network-to-user authentication and generation of session-specific encryption keys for air traffic using digital certificates to prevent man-in-the-middle attacks without requiring users to have pre-configured accounts. Although any WLAN host can pass the link-layer authentication and obtain link connectivity, the WLAN only allows the host to obtain IP networking configuration parameters and to communicate with a Web-based authentication server prior to initiating the Web-based authentication process that is responsible for user-to-network authentication. The Web-based authentication server employs a Web page for initial authentication and a Java applet for consequent authentications. In the Web page, registered users can manually, or configure their Web browsers to automatically, submit their authentication credentials; new users can open accounts, make one-time payments, or refer the Web-based authentication server to other authentication servers where they have accounts. Once a user is authenticated to the WLAN, the user's mobile host obtains full IP connectivity and receives secure mobility support from the WLAN. The mobile host always owns a fixed IP address as it moves from one access point to another in the WLAN. All wireless traffic between the mobile host and the WLAN is encrypted. Whenever the mobile host moves to a new access point, a Java applet (or an equivalent client-side program delivered over Web) enables automatic authentication of the mobile host to the WLAN. In addition, the ZCMN method supports dynamic load balancing between home agents. Thus, a mobile host can change home agents during active sessions.

**Classifications:**

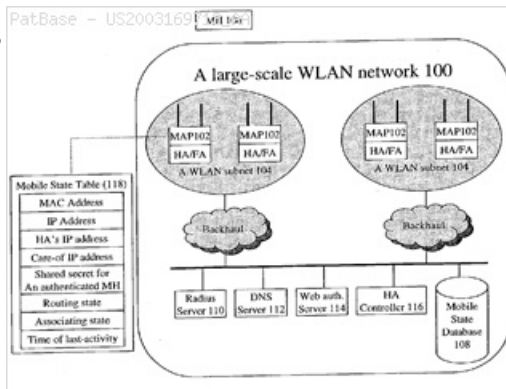
**International (IPC 8-9):** H04L12/12 H04L12/24 H04L12/28 H04L12/56 H04L29/06 H04L9/32 H04W12/00 H04W4/00 (Advanced/Invention); H04W12/06 H04W28/08 H04W28/18 H04W36/08 H04W8/26 H04W80/02 H04W80/04 H04W80/10 H04W84/12 (Advanced/Non-invention); H04L12/12 H04L12/24 H04L12/28 H04L12/56 H04L29/06 H04L9/32 H04W12/00 (Core/Invention); H04W28/02 H04W28/16 H04W36/00 H04W8/00 H04W80/00 H04W84/02 (Core/Non-invention)

**International (IPC 1-7):** H04L12/12 H04L12/24 H04L9/32 H04Q7/24 H04Q7/36

**CPC:** H04W88/02 H04L63/04 H04L63/08 H04L63/162 H04L63/168 H04W8/26 H04W12/02 H04W12/06 H04W28/08 H04W28/18 H04W80/02 H04W80/04 H04W80/12 H04W84/12 H04W12/0023

**European:** H04L29/06C6B H04L29/06C6C2 H04L29/06C6D H04W212/00 H04W6/00 T04W12/02 T04W12/04 T04W12/10 T04W20/06 T04W212/06 T04W228/08 T04W228/18 T04W236/08 T04W28/08 T04W28/18 T04W280/00 T04W284/12 T04W38/00 T04W4/187 T04W50/065 T04W6/06 T04W8/26 T04W80/00 T04W80/02 T04W80/04 T04W80/12 T04W84/12

**US:** 370/310 370/328 370/338 370/338P 370/351 370/351S

**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| CA2413944 AA       | 20030612         | CA20022413944      | 20021211         |
| CA2413944 C        | 20070724         | CA20022413944      | 20021211         |
| US2003169713 AA    | 20030911         | US20020298485      | 20021118         |
| US8817757 BB       | 20140826         | US20020298485      | 20021118         |

**Priority:**

US20010339957P 20011212      US20020298485 20021118      CA20022413944 20021211

**Probable Assignee:** AT AND T CORP

**Assignee(s):** (std): AT AND T CORP ; AT AND T IP II LP ; LUO HUI

**Assignee(s):** AT AND T INTELLECTUAL PROPERTY II LP

**Inventor(s):** (std): LUO HUI

**Agent(s):** KIRBY EADES GALE BAKER

**Title:** RF SIGNATURE-BASED WLAN IDENTITY MANAGEMENT

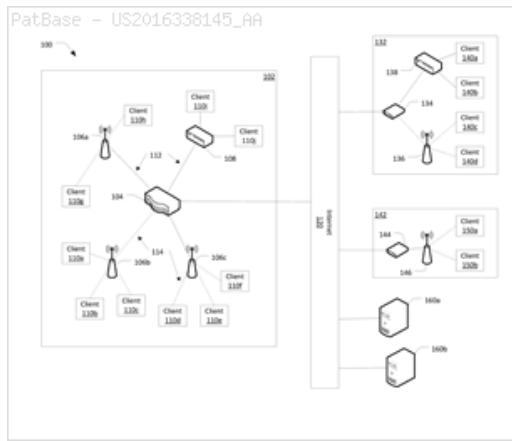
**Abstract:** MAC addresses provide a way to identify wireless client devices. Some wireless client devices are able to change their MAC addresses. Provided are devices computer-program products, and methods for identifying wireless client devices based on radiofrequency signatures of transmissions from the client devices. In some implementations, one or more wireless frames are received at a network device. In these implementations, a wireless frame is received at two or more antennas. In some implementations, a signal characteristic associated with transmission of the wireless frame is monitored. In these implementations, monitoring the signal characteristic includes using two or more antennas to determine a physical or temporal characteristic associated with the transmission of the wireless frame. In some implementations, a client device is identified. The identified client device is associated with the transmission of the wireless frame. In these implementations, identifying the client device includes using the monitored signal characteristics.

**Classifications:**

**International (IPC 8-9):** H04B17/318 H04L29/12 H04W12/08 H04W12/10 H04W12/12 H04W24/04 H04W24/08 H04W48/02 H04W48/08 H04W48/16 H04W52/02 H04W84/12 (Advanced/Invention)

**CPC:** Y02B60/50 H04L61/6022 H04W12/08 H04W12/1008 H04W12/12 H04W48/02 H04W48/08 H04W48/16 H04W52/0245 Y02D70/00 Y02D70/142 Y02D70/168

**US:** 1/1 370/338



#### Family:

| Publication number | Publication date | Application number | Application date |
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| DE602016016452 D1  | 20190718         | DE201660016452T    | 20160513         |
| EP3284280 A1       | 20180221         | EP20160793587      | 20160513         |
| EP3284280 A4       | 20180502         | EP20160793587      | 20160513         |
| EP3284280 B1       | 20190703         | EP20160793587      | 20160513         |
| US2016338145 AA    | 20161117         | US20150712191      | 20150514         |
| US2018249416 AA    | 20180830         | US20180958243      | 20180420         |
| US9998998 BB       | 20180612         | US20150712191      | 20150514         |
| US10397873 BB      | 20190827         | US20180958243      | 20180420         |
| WO16183407 A1      | 20161117         | WO2016US32277      | 20160513         |

#### Priority:

US20150712191 20150514 EP20160793587 20160513 WO2016US32277 20160513  
US20180958243 20180420

**Probable Assignee:** ARUBA NETWORKS INC

**Assignee(s):** (std): ARUBA NETWORKS INC ; HEWLETT PACKARD ENTPR DEV LP

**Assignee(s):** HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP ; HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP HOUSTON

**Inventor(s):** (std): BHANAGE GAUTAM

**Inventor(s):** BHANAGE GAUTAM SUNNYVALE

**Agent(s):** BOEHMERT AND BOEHMERT ANWALTSPARTNERSCHAFT MBB PATENTANWAELTE RECHTSANWAELTE;  
HOLT DANIEL RICHARD; HASELTINE LAKE KEMPNER LLP; HEWLETT PACKARD ENTERPRISE PATENT  
DEPARTMENT; FOUGERE JEFFREY R ET AL

**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR  
CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID  
IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN  
MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG  
SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

#### 16) Family number: 43385733 (US2009157808A)

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**Title:** PERSONAL ACCESS AND CONTROL OF MEDIA PERIPHERALS ON A MEDIA EXCHANGE NETWORK

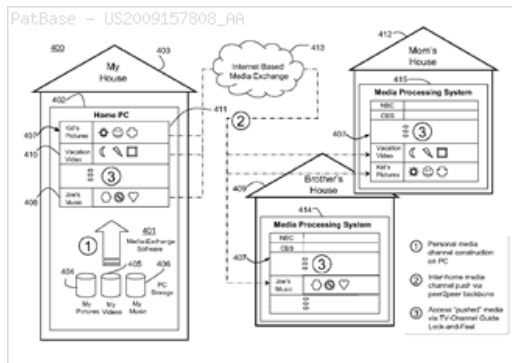
**Abstract:** Methods are disclosed for indirectly monitoring and controlling at least one media peripheral device in a media exchange network by accessing a media management system (MMS) via a first media peripheral (MP) device (e.g., a TV screen) using a user control device (e.g., a remote control). An operation corresponding to a second media peripheral (MP) device (e.g., a digital camera) may be selected via the MMS using the first MP device and the user control device. The operation is then carried out (i.e., performed) by the second MP device. A status of the second MP device may be selected via the MMS using the first MP device and the user control device. The selected status is then displayed on the first MP device.

#### Classifications:

**International (IPC 8-9):** G06F15/16 G06F15/173 H04L12/28  
H04L29/06 H04L29/08 H04N7/16 H04N7/18 (Advanced/Invention);  
H04H1/02 H04H20/76 (Advanced/Non-invention)

**CPC:** H04L12/282 H04L12/2803 H04L12/2834 H04L29/06027  
H04L2012/2841 H04L2012/2849 H04N7/163 H04N7/18 H04N21/2343  
H04N21/234363 H04N21/2408 H04N21/254 H04N21/2541  
H04N21/2543 H04N21/25435 H04N21/25833 H04N21/25875  
H04N21/26266 H04N21/2668 H04N21/2743 H04N21/4104  
H04N21/4126 H04N21/41422 H04N21/42204 H04N21/4223  
H04N21/4227 H04N21/42684 H04N21/4316 H04N21/4331  
H04N21/43615 H04N21/43637 H04N21/44222 H04N21/443  
H04N21/4532 H04N21/458 H04N21/4622 H04N21/4627 H04N21/4668  
H04N21/47214 H04N21/4751 H04N21/4755 H04N21/4788  
H04N21/482 H04N21/4821 H04N21/4826 H04N21/4882 H04N21/6125  
H04N21/6187 H04N21/632 H04N21/6582 H04N21/6583 H04N21/814  
H04N21/8146 H04L65/1026 H04L67/06 H04L67/306 H04L67/325  
H04L67/327

**European:** H04L12/28H H04L12/28H3B H04L29/06C2 H04L29/08N29U H04L29/08N31T H04L29/08N31Y H04L29/08N5  
H04N21/2343 H04N21/2343S H04N21/24U H04N21/254 H04N21/2543 H04N21/2543V H04N21/254R H04N21/258C3  
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H04N21/658S H04N21/81D2 H04N21/81G H04N7/16E2 H04N7/18 T04L12/28H T04L12/28H10A T04L12/28H11A T04L12/28H5B  
**US:** 348/207.1 709/203 709/203P 709/212 709/217 709/219 709/223 709/226 709/230 725/100 725/103 725/86 725/91



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| US2009157808 AA    | 20090618         | US20090391022      | 20090223         |
| US7734788 BB       | 20100608         | US20090391022      | 20090223         |

**Priority:**

US20020432472P 20021211 US20030443894P 20030130 US20030660267 20030911  
US20090391022 20090223

**Probable Assignee:** AVAGO TECHNOLOGIES LTD**Assignee(s):** (std): BENNETT JAMES D ; BROADCOM CORP ; KARAOGUZ JEYHAN**Assignee(s):** AVAGO TECHNOLOGIES GENERAL IP SINGAPORE PTE LTD ; AVAGO TECHNOLOGIES INT SALES PTE LTD ; AVAGO TECHNOLOGIES LTD ; BANK OF AMERICA NA COLLATERAL AGENT AS**Inventor(s):** (std): KARAOGUZ JEYHAN ; BENNETT JAMES D**Agent(s):** MCANDREWS HELD AND MALLOY LTD; MCANDREWS HELD AND MALLOY**17) Family number: 46989007** (US2010245606A)

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**Title:** PERSONAL ACCESS AND CONTROL OF MEDIA PERIPHERALS ON A MEDIA EXCHANGE NETWORK

**Abstract:** Methods are disclosed for indirectly monitoring and controlling at least one media peripheral device in a media exchange network by accessing a media management system (MMS) via a first media peripheral (MP) device (e.g., a TV screen) using a user control device (e.g., a remote control). An operation corresponding to a second media peripheral (MP) device (e.g., a digital camera) may be selected via the MMS using the first MP device and the user control device. The operation is then carried out (i.e., performed) by the second MP device. A status of the second MP device may be selected via the MMS using the first MP device and the user control device. The selected status is then displayed on the first MP device.

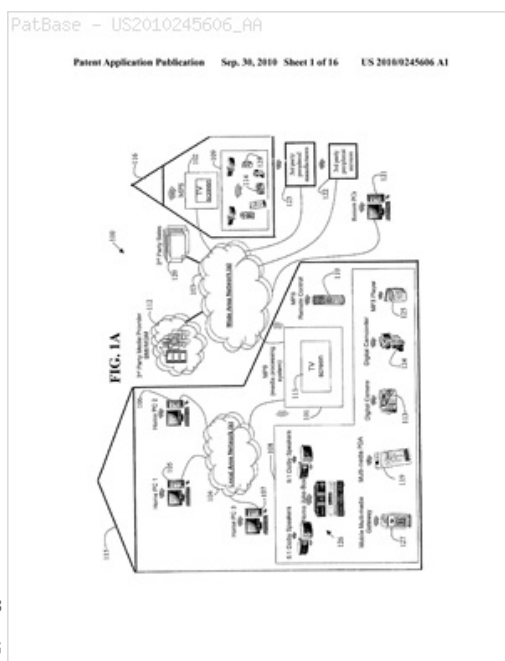
**Classifications:**

**International (IPC 8-9):** G06F15/173 H04L12/28 H04L29/06  
H04L29/08 H04N5/232 H04N7/16 H04N7/18 (Advanced/Invention);  
H04H1/02 H04H20/76 (Advanced/Non-invention);  
H04L12/28 H04L29/06 H04L29/08 H04N5/00 H04N7/16 H04N7/18  
H04N7/24 (Core/Invention);  
H04H1/02 (Core/Non-invention)

**CPC:** H04L12/282 H04L12/2803 H04L12/2834 H04L29/06027  
H04L2012/2841 H04L2012/2849 H04N7/163 H04N7/18 H04N21/2343  
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H04N21/6187 H04N21/632 H04N21/6582 H04N21/6583 H04N21/814  
H04N21/8146 H04L65/1026 H04L67/06 H04L67/306 H04L67/325  
H04L67/327

**European:** H04L12/28H H04L12/28H3B H04L29/06C2  
H04L29/08N29U H04L29/08N31T H04L29/08N31Y H04L29/08N5  
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T04L12/28H11A T04L12/28H5B

**US:** 348/207.1 348/211.99 348/211.990P 348/E5.042 348/E50.42S 709/212 709/217 709/219 709/223 709/226 709/230  
725/100 725/103 725/86 725/91

**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| US2010245606 AA    | 20100930         | US20100795405      | 20100607         |
| US8321570 BB       | 20121127         | US20100795405      | 20100607         |

**Priority:**

US20020432472P 20021211 US20030443894P 20030130 US20030660267 20030911  
US20090391022 20090223 US20100795405 20100607

**Probable Assignee:** AVAGO TECHNOLOGIES LTD**Assignee(s):** (std): KARAOGUZ JEYHAN ; BENNETT JAMES D ; BROADCOM CORP**Assignee(s):** AVAGO TECHNOLOGIES GENERAL IP SINGAPORE PTE LTD ; AVAGO TECHNOLOGIES INT SALES PTE LTD ; AVAGO TECHNOLOGIES LTD ; BANK OF AMERICA NA COLLATERAL AGENT AS**Inventor(s):** (std): BENNETT JAMES D ; KARAOGUZ JEYHAN**Agent(s):** MCANDREWS HELD AND MALLOY LTD; GARLICK AND MARKISON; BRUCE E**18) Family number: 33505625** (US2004117846A)

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**Title:** PERSONAL ACCESS AND CONTROL OF MEDIA PERIPHERALS ON A MEDIA EXCHANGE NETWORK

**Abstract:** Methods are disclosed for indirectly monitoring and controlling at least one media peripheral device in a media

exchange network by accessing a media management system (MMS) via a first media peripheral (MP) device (e.g., a TV screen) using a user control device (e.g., a remote control). An operation corresponding to a second media peripheral (MP) device (e.g., a digital camera) may be selected via the MMS using the first MP device and the user control device. The operation is then carried out (i.e., performed) by the second MP device. A status of the second MP device may be selected via the MMS using the first MP device and the user control device. The selected status is then displayed on the first MP device.

#### Classifications:

**International (IPC 8-9):** G06F15/173 H04L12/28 H04L29/06

H04L29/08 H04N7/16 H04N7/18 (Advanced/Invention);

H04H1/02 H04H20/76 (Advanced/Non-invention)

**International (IPC 1-7):** H04N7/16 H04N7/173

**CPC:** H04L12/282 H04L12/2803 H04L12/2834 H04L29/06027

H04L2012/2841 H04L2012/2849 H04N7/163 H04N7/18 H04N21/2343

H04N21/2408 H04N21/254 H04N21/2541 H04N21/2543

H04N21/25435 H04N21/25833 H04N21/25875 H04N21/26266

H04N21/2668 H04N21/2743 H04N21/4104 H04N21/4126

H04N21/41422 H04N21/42204 H04N21/4223 H04N21/4227

H04N21/42684 H04N21/4316 H04N21/4331 H04N21/43615

H04N21/43637 H04N21/44222 H04N21/443 H04N21/4532

H04N21/458 H04N21/4622 H04N21/4627 H04N21/4668

H04N21/47214 H04N21/4751 H04N21/4755 H04N21/4788

H04N21/482 H04N21/4821 H04N21/4826 H04N21/4882 H04N21/6125

H04N21/6187 H04N21/632 H04N21/6582 H04N21/6583 H04N21/814

H04N21/8146 H04L65/1026 H04L67/06 H04L67/306 H04L67/325

H04L67/327 H04N21/234363

**European:** H04L12/28H H04L12/28H3B H04L29/06C2 H04L29/08N29U H04L29/08N31T H04L29/08N31Y H04L29/08N5

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H04N21/258U1 H04N21/262R H04N21/2668 H04N21/2743 H04N21/414T H04N21/41P H04N21/41P5 H04N21/4223

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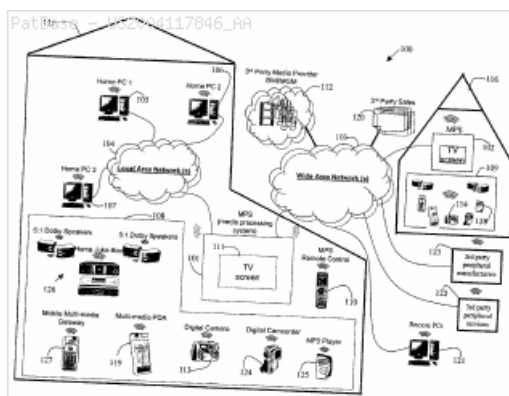
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**US:** 348/207.1 348/E5.006 348/E50.06S 348/E7.061 348/E7.085 348/E70.61S 348/E70.85S 375/E7.019 375/E70.19S 709/212

709/217 709/219 709/223 709/226 709/230 725/100 725/103 725/112 725/112S 725/113 725/113S 725/114 725/114S

725/134 725/134P 725/142 725/142S 725/86 725/86S 725/91



#### Family:

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| US2004117846 AA    | 20040617         | US20030660267      | 20030911         |
| US7496665 BB       | 20090224         | US20030660267      | 20030911         |

#### Priority:

US20020432472P 20021211 US20030443894P 20030130 US20030660267 20030911

**Probable Assignee:** AVAGO TECHNOLOGIES LTD

**Assignee(s):** (std): BROADCOM CORP

**Assignee(s):** KARAOGUZ JEYHAN ; AVAGO TECHNOLOGIES GENERAL IP SINGAPORE PTE LTD ; AVAGO TECHNOLOGIES INT SALES PTE LTD ; AVAGO TECHNOLOGIES LTD ; BANK OF AMERICA NA COLLATERAL AGENT AS ; BENNETT JAMES D

**Inventor(s):** (std): KARAOGUZ JEYHAN ; BENNETT JAMES D

**Agent(s):** MCANDREWS HELD AND MALLOY LTD

#### 19) Family number: 54973108 (US2015071271A)

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**Title:** MODERATION OF NETWORK AND ACCESS POINT SELECTION IN AN IEEE 802.11 COMMUNICATION SYSTEM

**Abstract:** A method for use in a front-end network communications device, arranged to operate as an access point, for establishing a data connection between a mobile communications terminal and one or more data communications networks comprises receiving, from the mobile communications terminal, a service provider request comprising a MAC address of the mobile communications terminal; sending, to a master server, request information pertaining to the service provider request; receiving, from the master server, a policy message comprising a visibility policy, said visibility policy containing rules for controlling the visibility of at least one of the one or more data communications networks; determining a subset of communications networks that should be visible to the mobile communications terminal based on said rules; and enforcing said visibility policy by allowing said mobile communications terminal to connect only to said subset of data communications networks.

#### Classifications:

**International (IPC 8-9):** H04L12/28 H04L9/14 H04W12/04

H04W12/06 H04W48/18 H04W84/12 H04W88/08 (Advanced/Invention);

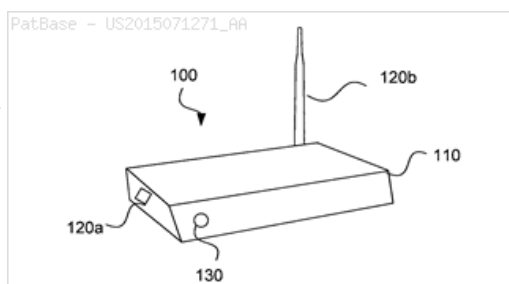
H04L29/06 H04W8/18 H04W88/10 (Advanced/Non-invention)

**CPC:** H04W88/08 H04W84/12 H04L2209/24 H04L2209/80 H04W12/04

H04L9/14 H04W48/18 H04L63/0892 H04L2463/061 H04W8/18

H04W12/06 H04W88/10

**US:** 370/338 380/270



#### Family:

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| US2015071271 AA    | 20150312         | US20130394376      | 20130415         |
| US2015124966 AA    | 20150507         | US20130394386      | 20130415         |
| US9762389 BB       | 20170912         | US20130394376      | 20130415         |
| WO13153232 A2      | 20131017         | WO2013EP57840      | 20130415         |
| WO13153232 A3      | 20140213         | WO2013EP57840      | 20130415         |
| WO13153233 A1      | 20131017         | WO2013EP57841      | 20130415         |

#### Priority:

**Probable Assignee:** ANYFI NETWORKS AB

**Assignee(s):** (std): ANYFI NETWORKS AB

**Inventor(s):** (std): ALMBLADH JOHAN ; SMEDMAN BJOERN

**Agent(s):** SPRUCE LAW GROUP LLC; STROEM AND GULLIKSSON AB

**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

**20) Family number: 33378788 (WO0116900A2)**

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**Title:** METHODS AND APPARATUS FOR CONDUCTING ELECTRONIC TRANSACTIONS

**Abstract:** A system and method for conducting electronic commerce are disclosed. In various embodiments, the electronic transaction is a purchase transaction. A user (110) is provided with an intelligent token (202), such as a smartcard containing a digital certificate. The intelligent token suitably authenticates with a server on a network (130) that conducts all or portions of the transaction on behalf of the user. In various embodiments a wallet server (140) interacts with a security server (130) to provide enhanced reliability and confidence in the transaction. In various embodiments, the wallet server includes a toolbar (502). In various embodiments, the digital wallet pre-fills forms. Forms may be pre-filled using an auto-remember component.

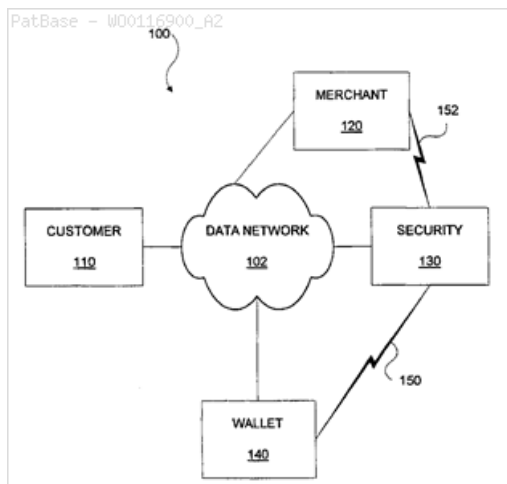
**Classifications:**

**International (IPC 8-9):** G06F1/00 G06K17/00 G06Q10/00 G06Q20/00 G06Q20/34 G06Q20/36 G06Q20/40 G06Q30/00 G06Q50/00 G07F G07F7/08 G07F7/10 H04L9/32 (Advanced/Invention); G06K17/00 G06Q10/00 G06Q20/00 G06Q30/00 G06Q50/00 H04L9/32 (Advanced/Non-invention); G07F7/10 (Core/Invention); G07F (Subclass/Invention)

**International (IPC 1-7):** G06F1/00 G06F17/60 G06K17/00 G07F7/08 G07F7/10 H04L9/32

**CPC:** G06Q20/341 G06Q20/363 G06Q20/4097 G07F7/0866 G07F7/1008

**European:** G06Q20/341 G06Q20/363 G06Q20/4097 G07F7/08C G07F7/10D



**Family:**

| Publication number | Publication date | Application number | Application date |
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| AR027848 AA        | 20030416         | AR2000P104516      | 20000830         |
| AT258328 E         | 20040215         | AT20000959619T     | 20000830         |
| AU200070907 A1     | 20010326         | AU20000070907      | 20000830         |
| AU200070907 A5     | 20010326         | AU20000070907      | 20000830         |
| AU775976 B2        | 20040819         | AU20000070907      | 20000830         |
| CA2382922 AA       | 20020225         | CA20002382922      | 20000830         |
| CA2382922 C        | 20111213         | CA20002382922      | 20000830         |
| CN1376292 A        | 20021023         | CN20008013363      | 20000830         |
| CZ20020744 A3      | 20040218         | CZ20020000744      | 20000830         |
| DE60007883 D1      | 20040226         | DE20006007883      | 20000830         |
| DE60007883 D1      | 20040226         | DE20006007883T     | 20000830         |
| DE60007883 T2      | 20041014         | DE20006007883T     | 20000830         |
| DK1212732 T3       | 20040607         | DK20000959619T     | 20000830         |
| DZ3214 A1          | 20010308         | DZ20000003214      | 20000830         |
| EP1212732 A2       | 20020612         | EP20000959619      | 20000830         |
| EP1212732 B1       | 20040121         | EP20000959619      | 20000830         |
| ES2215064 T3       | 20041001         | ES20000959619T     | 20000830         |
| HK1048550 A1       | 20041021         | HK20020108523      | 20021125         |
| HK1048550 B        | 20041021         | HK20020108523      | 20021125         |
| HR20020180 A2      | 20040630         | HR20020000180      | 20020227         |
| HU0202471 AB       | 20021128         | HU20020002471      | 20000830         |
| IL148319 A0        | 20020912         | IL20000148319      | 20000830         |
| IL148319 A1        | 20060205         | IL20000148319      | 20000830         |
| JP2003508838 T2    | 20030304         | JP20010520370T     | 20000830         |
| MA27459 A1         | 20050801         | MA20020026570      | 20020325         |
| MXPA02002081 A1    | 20040730         | MX2002PA02081      | 20000830         |
| NO20020996 A       | 20020424         | NO20020000996      | 20020228         |
| NO20020996 A0      | 20020228         | NO20020000996      | 20020228         |
| NO20020996 L       | 20020424         | NO20020000996      | 20020228         |
| NZ517840 A         | 20050324         | NZ20000517840      | 20000830         |
| PL353773 A1        | 20031201         | PL20000353773      | 20000830         |
| PT1212732 T        | 20040630         | PT20000959619T     | 20000830         |
| SI1212732 T1       | 20041031         | SI20000030353T     | 20000830         |
| TR200201280 T2     | 20020821         | TR20020001280T     | 20000830         |
| TR200202436 T2     | 20030121         | TR20020002436T     | 20000930         |

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| TW548564 B   | 20030821 | TW20000117522 | 20001123 |
| WO0116900 A2 | 20010308 | WO2000US23817 | 20000830 |
| WO0116900 A3 | 20011004 | WO2000US23817 | 20000830 |

**Priority:**

US19990151880P 19990831 US19990164668P 19991109 US19990165577P 19991115  
US20000201635P 20000503 WO2000US23817 20000830

**Probable Assignee:** AMERICAN EXPRESS TRAVEL RELATE

**Assignee(s):** (std): AMERICAN EXPRESS TRAVEL RELATE

**Assignee(s):** AMERICAN EXPRESS TRAVEL RELATED SERV COMPANY INC ; AMERICAN EXPRESS TRAVEL RELATED SERVCOMPANY INC ; AMERICAN EXPRESS TRAVEL RELATED SERVICES CO ; AMERICAN EXPRESS TRAVEL RELATED SERVICES COMPANY ; AMERICAN EXPRESS TRAVEL RELATED SERVICES COMPANY I ; AMERICAN EXPRESS TRAVEL RELATED SERVICES CO INC ; BISHOP FRED ; GLAZER ELLIOT ; BENNETT RUSSELL ; AMERICAN EXPRESS TRAVEL RELATED SERVICES COMPANY INC ; AMERICAN EXPRESS TRAVEL RELATED SERVICES CO INC AMERICAN ; LEAD CORE FUND LLC ; LAKE WALTER D ; HOHLE WILLIAM G ; SWIFT NICK ; ROYER COBY ; JOHNSTONE DAVID ; GORGOL ZYG ; SIMKIN MARVIN ; JOHNSON MICHAEL ; WHITE DIRK

**Inventor(s):** (std): GORGOL ZYGMUNT STEVEN ; HOHLE WILLIAM G AND ; R BENNETT ; E GLAZER ; F BISHOP ; GLAZER E ; BISHOP F ; BENNETT R ; HOHLE WILLIAM G ; JOHNSON MICHAEL ; WHITE DIRK ; SIMKIN MARVIN ; GLAZER ELLIOT ; ROYER COBY ; SWIFT NICK ; GORGOL ZYG ; BISHOP FRED ; JOHNSTONE DAVID ; LAKE WALTER D ; RUSSELL BENNETT ; LAKE D ; HOHLE G ; NICK SWIFT ; ELLIOT GLAZER ; WILLIAM G HOHLE ; DAVID JOHNSTONE ; DIRK WHITE ; RUSSEL BENNET ; MICHAEL JOHNSON ; FRED BISHOP ; MARVIN SIMKIN ; ZYG GORGOL ; COBY ROYER ; WALTER D LAKE ; BENNETT RUSSELL

**Agent(s):** SHELSTON IP PTY LTD; SHELSTON IP; MCCARTHY TETRAULT LLP; LLOYD WISE AND CO 4005 TOWER TWO LIPPO CENTRE 89 QUEENSWAY CENTRAL HONG KONG; REINHOLD COHN AND PARTNERS; CHIBA AKIO; TOMITA HIROYUKI; SHAMOTO ICHIO; NISHIYAMA FUMITOSHI; KOBAYASHI YASUSHI; MASUI CHUJI

**Designated states:** AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

**21) Family number: 31048544 (US6179663B)**

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**Title:** HIGH DENSITY ELECTRICAL INTERCONNECT SYSTEM HAVING ENHANCED GROUNDING AND CROSS-TALK REDUCTION CAPABILITY

**Abstract:** Disclosed is an electrical interconnect system using multiple grounding methods to reduce or prevent spurious signals from interfering with high density contacts carrying high speed transmissions. A first connector includes an insulative pillar partially surrounded by a plurality of signal contacts. A ground contact is at least partially located within the insulative pillar. A second connector includes a corresponding plurality of flexible signal contacts for mating with the signal contacts adjacent the insulative pillar. The second connector also includes a ground contact for receiving the ground contact of the first connector. The ground contacts provide a first method of providing a ground path to reduce spurious signals from entering the signal path. An electrically conducting shield is located outside the signal contacts when the first and the second connectors are mated. The first connector includes a member which provides a ground path between the first connector and the electrically conducting shield. Advantageously, the electrical interconnect system has two grounding methods which are particularly important in a high density electrical interconnect system where the contacts are closely spaced and susceptible to noise and other spurious signals.

**Classifications:**

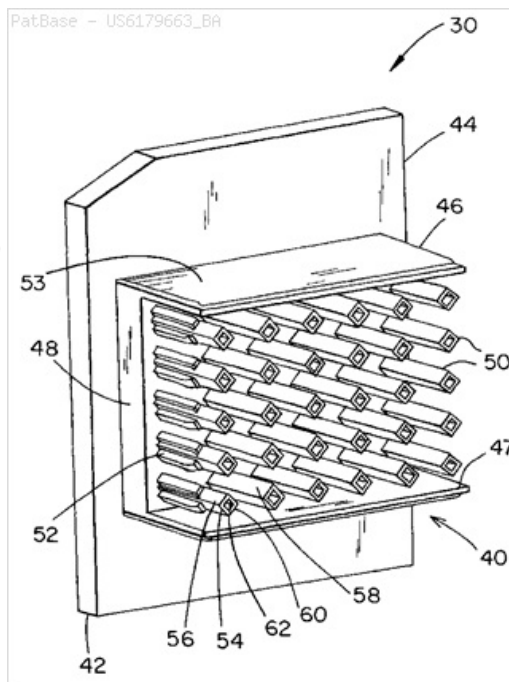
**International (IPC 8-9):** G02B6/38 G06Q20/00 G06Q20/04 G06Q20/10 G06Q20/12 G06Q20/38 G06Q20/40 G07F19/00 H01R12/16 H01R12/26 H01R12/32 H01R12/50 H01R12/52 H01R12/55 H01R12/71 H01R12/72 H01R13/46 H01R13/514 H01R13/646 H01R13/648 H01R13/655 H01R13/658 H01R13/6581 H01R13/6585 (Advanced/Invention); H01R12/72 H01R13/648 (Advanced/Non-invention); G02B6/38 G06Q20/00 G07F19/00 H01R12/00 H01R13/00 H01R13/46 H01R13/514 H01R13/648 H01R13/655 H01R13/658 (Core/Invention); H01R (Subclass/Invention)

**International (IPC 1-7):** G02B6/38 G06F17/60 G07F19/00 G07F19/00 H01R107/00 H01R12/16 H01R12/26 H01R12/32 H01R13/46 H01R13/646 H01R13/648 H01R13/655 H01R13/658 H01R23/68 H01R24/00 H01R3/00

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**European:** G06Q20/04 G06Q20/108 G06Q20/12 G06Q20/382 G06Q20/3823 G06Q20/3829 G06Q20/401 G06Q20/4012 G07F19/00B G07F19/00F G07F19/20 G07F19/206 G07F19/211 H01R13/405 H01R13/502 H01R23/68D2 T01R23/70K2

**US:** 385/53 439/607.02 439/607.07 439/608 439/660 439/931 70/57.1 70/57.5 705/64 705/70 705/71 705/72 705/75



**Family:**

| Publication number | Publication date | Application number | Application date |
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| AT245841 E         | 20030815         | AT20000957801T     | 20000825         |
| AU199937675 A1     | 19991116         | AU19990037675      | 19990428         |
| AU200069115 A1     | 20010313         | AU20000069115      | 20000817         |
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| CA2381145 AA    | 20020215 | CA20002381145  | 20000817 |
| CA2385671 AA    | 20020322 | CA20002385671  | 20000825 |
| CA2385671 C     | 20110308 | CA20002385671  | 20000825 |
| CN1127783 C     | 20031112 | CN19998007758  | 19990428 |
| CN1306684 A     | 20010801 | CN19998007758  | 19990428 |
| CN1471749 A     | 20040128 | CN20008012926  | 20000817 |
| DE10084896 T    | 20021031 | DE20001084896T | 20000817 |
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| DE10084896 T1   | 20021031 | DE20001084896T | 20000817 |
| DE19983186 T    | 20010621 | DE19991083186T | 19990428 |
| DE19983186 T1   | 20010621 | DE19991083186T | 19990428 |
| DE60004074 D1   | 20030828 | DE20006004074T | 20000825 |
| DE60004074 D1   | 20030828 | DE20006004074  | 20000825 |
| DE60004074 T2   | 20040129 | DE20006004074T | 20000825 |
| EP1075714 A2    | 20010214 | EP19990920095  | 19990428 |
| EP1075714 B1    | 20040728 | EP19990920095  | 19990428 |
| EP1205010 A2    | 20020515 | EP20000957508  | 20000817 |
| EP1218865 A1    | 20020703 | EP20000957801  | 20000825 |
| EP1218865 B1    | 20030723 | EP20000957801  | 20000825 |
| ES2203506 T3    | 20040416 | ES20000957801T | 20000825 |
| GB200028267 A0  | 20010103 | GB20000028267  | 19990428 |
| GB200203422 A0  | 20020403 | GB20020003422  | 20000817 |
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| GB2353908 B2    | 20020807 | GB20000028267  | 19990428 |
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Family:

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**25) Family number: 28266426** (US2002165912A)

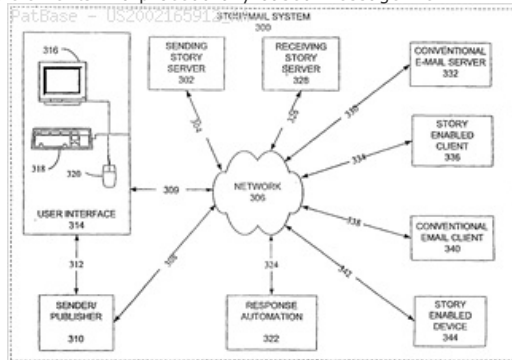
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**Title:** SECURE CERTIFICATE AND SYSTEM AND METHOD FOR ISSUING AND USING SAME

**Abstract:** System, method, signal, operating model, and computer program for electronic messaging. Systems and method for providing security for communication of electronic messages, interactive sessions, software downloads, software upgrades, and other content from a source to a receiving device as well as signals used for such communications. Systems, methods, signals, device architectures, data formats, and computer program structures for providing authentication, integrity, confidentiality, non-repudiation, replay protection, and other security properties while minimizing the network bandwidth, computational resources, and manual user interactions required to install, enable, deploy and utilize these security properties. System, device, method, computer program, and computer program product for searching and selecting data and control elements in message procedural/data sets for automatic and complete portrayal of message to maintain message intent. System, device, method, computer program, and computer program product for adapting content for sensory and physically challenged persons using embedded semantic elements in a procedurally based message file.

**Classifications:**

**International (ipc 8-9):** G06F21/00 G06F21/33 G06F21/62  
G06Q10/00 G06Q10/10 H04L12/58 H04L29/06  
H04L29/08 (Advanced/Invention);  
G06Q10/00 H04L12/58 H04L29/06 H04L29/08 (Core/Invention)  
**International (ipc 1-7):** G06F11/30 G06F12/14 G06F15/16  
G06F17/00 G06F9/00 G06F9/45 H04K1/00 H04L9/00  
**CPC:** H04L29/06027 H04L65/80 H04L67/306 H04L67/26 H04L69/329  
H04L67/2823 H04L67/12 H04L67/34 H04L67/36 H04L63/04  
H04L63/08 H04L63/104 G06F21/6218 G06F21/33 G06Q10/107  
H04L63/0428 H04L63/0823 H04L63/12 H04L63/126 H04L51/00  
**European:** G06F17/60A2 G06F21/33 G06F21/62B G06Q10/107  
H04L12/58 H04L29/06C2 H04L29/06C6B H04L29/06C6C2  
H04L29/06C6E H04L29/06C6G H04L29/06S10C H04L29/06S4  
H04L29/06S8 H04L29/08A7 H04L29/08N11 H04L29/08N25  
H04L29/08N27 H04L29/08N29U H04L29/08N33 H04L29/08N35  
H04L63/04 H04L63/04B H04L63/08 H04L63/08C H04L63/10C  
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| Publication number | Publication date | Application number | Application date |
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| US20010912860 20010725 | US20010912941 20010725 | US20010912901 20010725  |
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