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**United States Patent**

Jiang

Patent No.: US 8,331,907 B2

Date of Patent: Dec. 11, 2012

**OTHER PUBLICATIONS**

“Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); General Packet Radio Service (GPRS) Service description; Stage 2 (3GPP TS 23.060 version 5.4.0 Release 5)” ETSITS 129 060 V5.4.0, Dec. 2002, pp. 1-207 (XP-014007573).

“Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); General Packet Radio Service (GPRS); GPRS Tunnelling Protocol (GTP) across the Gn and Gp interface (3GPP TS 29.060 version 5.4.0 Release 5)” ETSITS 129 060 V5.4.0, Dec. 2002, pp. 1-103 (XP-002298277).


检索重点：
Integrating GSM and WiFi service in mobile communication devices
基本检索 - GLOBAL SEARCH
Global Search Bar

ANDs search terms  ie. fiber optics= fiber AND optics
Use quotes (""") for an exact phrase  ie. “fiber optics”
Searching metadata only NOT a Full text search
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A Novel Approach of Automation Testing on Mobile Devices

Leckraj Nagowah and Gayeree Sowamber
Computer Science & Engineering Department
University of Mauritius
Réduit, Mauritius
nagowah@uom.ac.mu, gayeree.sowamber2@umail.uom.ac.mu

Abstract—Mobile phones and mobile applications have now become an integral part of our everyday life. Mobile application testing plays a pivotal role in making the mobile applications more reliable and defect-free. Existing test automation tools have been tailored to perform mobile test automation through mobile emulators. Other tools require the mobile device where the application is installed, to be connected to a computer so that the tests can be run. Obtaining the results obtained from emulators often differ to compromise the reliability of the test since emulators are not the actual devices [2] and may not reflect the actual results if the same tests are run on the mobile device itself.

To enable automation testing directly on mobile devices, we introduce MobTAF, a Mobile Test Automation Framework that enables mobile applications to be automatically tested on actual devices and not on emulators.
<table>
<thead>
<tr>
<th>Document Title</th>
<th>Authors</th>
<th>Author Affiliation</th>
<th>Publication Title</th>
<th>Publication Date</th>
<th>Publication Volume</th>
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<tbody>
<tr>
<td>An Experimental Study of Hierarch Socioeconomic</td>
<td>Taekyung Dept. of Comp. Eng., S. North Informatics, IEEE Trans Nov. 2010</td>
<td>2010</td>
<td>6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wireless Sensor Networks</td>
<td>JeongGil Ko; Chen State Dept. of Comput. Sci., ICQ Procedures of the IEEE</td>
<td>2010</td>
<td>58</td>
<td></td>
<td></td>
</tr>
<tr>
<td>The Three-Tier Security Scheme</td>
<td>Jadhav, S.; Tae-Hoon Advanced Communication Technology (CAST), 2010 Int. Conference on</td>
<td>2010</td>
<td>8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Efficient sensor node authentication</td>
<td>Han, K.; Kim, K.</td>
<td>2010</td>
<td>8</td>
<td></td>
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<tr>
<td>RCDA: Recoverable Concealed Data</td>
<td>Chien-Ming</td>
<td>2010</td>
<td>8</td>
<td></td>
<td></td>
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A novel approach to testing on mobile devices.

**Mobile devices, scalability & digital ecologies**

Qian Wang; Deters, R. J.
Digital Object Identifier: 10.1109/DEG.2010.5525966
Publication Year: 2010, Page(s): 124 - 129

**A dual-slot diversity antenna with isolation enhancement using parasitic elements for mobile handsets**

Zhengyi Li; Zhengwei Du; Ke Gong
Microwave Conference, 2009. APMC 2009. Asia Pacific
Digital Object Identifier: 10.1109/APMC.2009.5384150
Publication Year: 2009, Page(s): 1821 - 1824

Cited by: Papers (9)

IEEE CONFERENCE PUBLICATIONS

**Mobile phone, cell phone, cellular phone etc**

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WiZi-Cloud: Applicat WiFi radios for low p
Tao Jin; Noubir, G.; Bo
INFOCOM, 2011 Proceed
Digital Object Identifier:
Publication Year: 2011,
Cited by: Papers (5)
IEEE CONFERENCE PUB

A synchronization framework for personal mobile servers
Sinitsyn, A.
Pervasive Computing and Communications Workshops, 2004.
Proceedings of the Second IEEE Annual Conference on
Digital Object Identifier: 10.1109/PERCOMW.2004.1276933
Publication Year: 2004, Page(s): 208 - 212
Cited by: Papers (3) | Patents (114)
# Patent Citation Linking

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<tr>
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<th>Keywords</th>
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</table>

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Abstract | Full Text: PDF (138KB)
Portable electronic device with local search capabilities

Abstract

Improved methods and systems that assist a user in searching media items on a portable electronic device are disclosed. According to one aspect of the invention, a portable electronic device is provided with a search function that enables a user to search for media items resident on the portable electronic device. The search function can search through different types of media items. Those of the media items that are deemed matching can be ranked in order of relevance and displayed in a list for the user. Thereafter, the user can navigate the list to select one of the listed media items for playback. According to another aspect of the invention, various graphical user interfaces can be presented on a portable electronic device to assist a user in interacting with the portable electronic device to utilize a search function.

Inventors: Gupta; Sandeep (Fremont, CA), Huang; Szu-Wen (Fremont, CA), Marriott; Greg (Honolulu, HI), Lee; Jeff (Sunnyvale, CA)
Bibliographic data: EP1693771 (A1) — 2006-08-23

Synchronization of files and pertaining metadata in a mobile environment.

Page bookmark: EP1693771 (A1) - Synchronization of files and pertaining metadata in a mobile environment

Inventor(s): RAMAN BALAN SETHU [US]; HUDIS IRENA [US]; NOVIK LEV [US]; ECHERO EQUECHUKWU C [US]; RAO RAJESH M [US]; WU YUNXIN [US] ±

Applicant(s): MICROSOFT CORP [US] ±

Classification:
- international: G06F17/30
- cooperative: G06F17/30174; H04L29/0854

Application number: EP20060110221 20060221

Priority number(s): US20050063381 20050222

Also published as: US2006190406 (A1) US7720690 (B2) KR20060093672 (A) JP2006236350 (A) JP5058496 (B2) more
### INSPEC: CONTROLLED INDEXING
- meta data
- middleware
- mobile computing
- mobile handsets
- object-oriented programming
- synchronisation

### INSPEC: NON CONTROLLED INDEXING
- application program interface
- automatic data exchange
- content-aware synchronization filtering
- metadata
- mobile device market
- mobile storage based consumer electronics
- object-based storage API

### IEEE TERMS
- Consumer electronics
- Filtering
- Middleware
- Mobile communication
- Multimedia systems
- Network servers
- Protocols
- Prototypes
- Software prototyping
- Storage automation
Power-aware optimal checkpoint intervals for mobile consumer devices

Published in:
Consumer Electronics, IEEE Transactions on (Volume:57, Issue: 4)

Date of Publication: November 2011

Page(s): 1637 - 1645
ISSN: 0098-3063
INSPEC Accession Number: 12487300
Digital Object Identifier: 10.1109/TCE.2011.6131136
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Design of Mobile Server Framework in MANET
Bai Zhongying; Qin Jiancheng
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Kurdi, H.; Maozhen Li; Al-Raweshidy, H.S.
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A synchronization scheme for distributed multimedia servers and mobile clients using quasisink
Boukerche, A.; Sungbum Hong; Jacob, T.
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A framework for lightweight data synchronization on mobile RFID devices
Liu Fagui; Jie Yuzhu; Ruan Yongxiong
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6- Mobile information access
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- **Mobile handset**
- OR **mobile device**
- OR **“mobile phone”**
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- AND **WIFI**
- AND **GSM**

---

順序从上至下; 单个检索框内不支持检索符
Energy extraction from RF/Microwave signal

Batrool, U.; Rehman, A.; Khalil, N.; Islam, M.; Afzal, M.U.; Tauqueer, T.
Multitopic Conference (INMIC), 2012 15th International
Digital Object Identifier: 10.1109/INMIC.2012.6511489
Publication Year: 2012, Page(s): 165 - 170
IEEE CONFERENCE PUBLICATIONS
命令检索 - COMMAND SEARCH
Command Search

Enter keywords, phrases, or a Boolean expression

*Note: Use the drop down lists to generate the correct Operator and Data Field Codes. This wizard will NOT build your expression. View examples of how to write a boolean search string.
位置检索符: NEAR/ONEAR
(GSM NEAR/12 WIFI) AND ("mobile handsets" OR "mobile devices" OR "cell phones" OR "cellular phones") AND roam*
voice, data, video, and messaging — using bimode devices that interface to both Global System for Mobile Communications (GSM) and Wireless Fidelity (Wi-Fi) networks. This solution provides advanced functionality to existing cellular devices, while providing a solid migration path to full IP-based multimedia services. The solution relies on network-based interfaces and systems, providing a multinet-work-capable, scalable solution with a unified service experience for the user from a single device.
Limitation

- **optimiz* NEAR/3 monitor- invalid**
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- “fiber*”- invalid
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快速检索—QUICK
PUBLICATION SEARCH
IP multimedia in next-generation mobile networks: services, protocols, and technologies

Salkintzis, A.K.
Wireless Communications, IEEE
Volume: 9, Issue: 5
Digital Object Identifier: 10.1109/MWC.2002.1043854
Publication Year: 2002, Page(s): 56 - 57
Cited by: Patents (1)

IEEE JOURNALS & MAGAZINES
Quick Abstract | PDF (243 KB)

WLAN–GPRS integration for next-generation mobile data networks

Salkintzis, A.K.; Fors, C.; Pazhyannur, R.
Wireless Communications, IEEE
Volume: 9, Issue: 5
Digital Object Identifier: 10.1109/MWC.2002.1043861
Publication Year: 2002, Page(s): 112 - 124
Cited by: Papers (125) | Patents (53)

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1 Results returned

Top tech 2012
Ross, P.E.; Moore, S.K.
Spectrum, IEEE
Volume: 49, Issue: 1
Digital Object Identifier: 10.1109/MSPEC.2012.6117829
Publication Year: 2012, Page(s): 28 - 29
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<th>#</th>
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<tr>
<td>48</td>
<td>&quot;Publication Title&quot;:Wireless Communications,, &quot;Authors&quot;:SalkintZis, &quot;Publication Year&quot;:2002</td>
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<td>45</td>
<td>(GSM NEAR/12 WIFI) AND (&quot;mobile handsets&quot; OR &quot;mobile devices&quot; OR &quot;cell phones&quot; OR &quot;cellular phones&quot;)</td>
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<tr>
<td>44</td>
<td>Cellular Phone Systems</td>
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<tr>
<td>40</td>
<td>(&quot;Author Affiliations&quot;:intel)</td>
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<td>39</td>
<td>cloud computing</td>
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44 OR 39 AND 38

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50 Keyword limit for combined searches
5 Wildcard limit for combined searches
Saved search alerts are not available for combined searches
作者检索-AUTHOR SEARCH
Yunhua Zhang; Jingshan Jiang
Volume: 5
Digital Object Identifier: 10.1109/IGARSS.2000.858421
Publication Year: 2000, Page(s): 2397 - 2399 vol.5
Cited by: Papers (1)
IEEE CONFERENCE PUBLICATIONS

InSAR Image Registration Using Modified Correlation Coefficient Algorithm
Xiaojin Shi; Yunhua Zhang; Jingshan Jiang
Antennas, Propagation & EM Theory, 2006. ISAPE '06. 7th
International Symposium on
Digital Object Identifier: 10.1109/ISAPE.2006.353506
Publication Year: 2006, Page(s): 1 - 4
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检索标准-
SEARCH
STANDARDS

具有蜂窝和WiFi双天线系统的移动无线通信设备

技术领域

本发明涉及通信设备的领域，更具体地，涉及使用双天线系统的通信设备。

背景技术

蜂窝通信系统日益普及，并成为个人和商业通信中的主要部分。蜂窝电话和类似设备使用户可以在旅行中拨打和接收电话呼叫。此外，随着蜂窝电话技术的提高，蜂窝电话的功能也增加。例如，多个蜂窝设备现在并入了个人数字助理(PDA)的特征，例如日历、地址簿、任务列表、计算器、备忘录和书写程序等。例如，在设备包括适用于WiFi和其它IEEE 802.11 WLAN访问的电路时，这些多功能设备通常使用用户可以无线发送和接收电子邮件(email)消息，并可以通过蜂窝网络和/或无线局域网(WLAN)来访问互联网。

多种蜂窝通信使用突发分组传输，作为包括850MHz、900MHz、1800MHz和1900MHz频段的全球移动通信系统(GSM)系统的一部分。尽管这些移动无线通信设备用于上述蜂窝电话，但是这些设备也可操作并且并入个人数字助理(PDA)的特征，无线发送和接收电子邮件和其它消息，并通过蜂窝网络和/或无线局域网(LAN)来访问互联网。该功能可包括对“热点”的访问，“热点”是使用IEEE 802.11标准的WiFi网络的一部分。

当这种设备并入了WiFi技术时，可将电路当作基于IEEE 802.11标准，并使用一个或多个接入点(AP)作为“热点”和多个用户的WLAN产品。AP典型地使用本领域技术人员所谓的“信标”，来广播服务集标识符“网络名称”(SSID)，在一些非限制性的示例中，信标在每个大约1Mbit/s的持续时间内广播大约一百毫秒。这种WiFi设备中的一些工
802.21 - IEEE Approved Draft Standard for Local and Metropolitan Area Networks: Media Independent Handover Services - Amendment for Security Extensions to Media Independent Handover Services and Protocol

VERSIONS
Active

802.21a-2012 - IEEE Approved Draft Standard for Local and Metropolitan Area Networks: Media Independent Handover Services - Amendment for Security Extensions to Media Independent Handover Services and Protocol
Available within the following subject area(s):
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802.21b-2012 - IEEE Standard for Local and metropolitan area networks - Part 21: Media Independent Handover Services Amendment 2: Extension for Supporting Handovers with Downlink Only Technologies
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802.21-2008 - IEEE Standard for Local and Metropolitan Area Networks- Part 21: Media Independent Handover
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smart transducer

A transducer that provides functions beyond those necessary for generating a correct representation of a sensed or controlled quantity. This functionality typically simplifies the integration of the transducer into applications in a networked environment.

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IEEE Std 1451.0-2007
IEEE Standard for a Smart Transducer Interface for Sensors and Actuators | View Definitions
IEEE Std 1451.3-2003
IEEE Standard for a Smart Transducer Interface for Sensors and Actuators | View Definitions
IEEE Std 1451.2-1997
Draft Standard for Local and Metropolitan Area Networks: Media Independent Handover Services
IEEE Unapproved Draft Std P802.21/D7.1, Aug 2007
Publication Year: 2007
IEEE STANDARDS
Quick Abstract | PDF (2624 KB)

Draft Standard for Local and Metropolitan Area Networks: Media Independent Handover Services
IEEE Unapproved Draft Std P802.21/D8.0, Dec 2007
Publication Year: 2007
IEEE STANDARDS
Quick Abstract | PDF (2007 KB)

Draft Standard for Health informatics - Personal health device communication - Application profile - Optimized exchange protocol
IEEE Unapproved Draft Std P802.21/D12.0, June 2008
Publication Year: 2008
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  - Microsensor Network Technology
  - Nanotechnology
  - Emerging WSN in Automobiles
- Key Technical Challenges
  - WSN Database Management
  - WSN Operational Lifetime
- Extending the Internet
  - Sensor Nodes
  - Smart Dust
  - Commercial Off the Shelf (COTS) Dust

Wireless Sensor Network

- Extremely small
- Low power
- Low cost
- Sense physical phenomena close by

Sensor Nodes
802.1aq Shortest Path Bridging Design and Evolution: The Architect's Perspective
Publisher: Wiley-IEEE Standards Association
by Allan, D.; Bragg, N.

Ethernet in the First Mile: Access for Everyone
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IEEE 802.11 Handbook: A Designer's Companion
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Low-Rate Wireless Personal Area Networks: Enabling Wireless Sensors with IEEE 802.15.4
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Copyright Year: 2006
Author(s): Eklund, C.; Marks, R.; Ponnesswamy, S.; van Waes, N.
Publisher: Wiley-IEEE Press
Content Type: Books & eBooks
Topics: Communication, Networks (Hardware/Software)

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Eklund, C.; Marks, R.; Ponnesswamy, S.; Stanwood, K.; van Waes, N.
WirelessMAN®: Inside the IEEE 802.16 Standard for Wireless Metropolitan Area Networks
Digital Object Identifier: 10.1109/9781118098875.ch2
Page(s): 13 - 27
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Chapter 4 IEEE 802.16 architecture

Overview and key features

In this chapter, we present an overview of the IEEE 802.16 architecture, highlighting the salient features and components. Detailed descriptions of the key components and their interactions are discussed.

The IEEE 802.16 MAC consists of three major components called **sublayers**. The three sublayers are:

- **Flexible and extensible**: A common MAC that works well with a variety of fixed and mobile network topologies and is extensible enough to support other MAC extensions.
- **Modular**: Both the IEEE 802.16 MAC and the MAC SAP support a set of mandatory and optional sublayer functions, allowing a variety of fixed and mobile network topologies to be supported.
- **Multiple network topologies**: The IEEE 802.16 MAC and MAC SAP support a variety of fixed and mobile network topologies such as ad-hoc and infrastructure networks.

**Figure 4–1** shows the IEEE 802.16 reference model. The IEEE 802.16 MAC consists of three major components called **sublayers**. The three sublayers are the service-specific convergence sublayer (CS), the MAC common part sublayer (CPS), and the security sublayer.

- **Service Specific Convergence Sublayer (CS)**: Handles service-specific functions such as classification and admission control.
- **MAC Common Part Sublayer (MAC CPS)**: Performs basic MAC functions such as frame transmission and reception.
- **Security Sublayer**: Provides security services such as authentication and encryption.

**Network Management System**

![IEEE 802.16 reference model](image-url)
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