

Patents

Tomi Heinonen

Granted Patents (total 76 granted patents on 23.7.2011):

1. U.S. Patent No. 6,744,753 - Tomi Heinonen, Timo M Laitinen, Jarkko Lempiö, U.S., Application Serial No. 09/985,193, LOCAL SERVICE HANDOVER, Patent issued on June 1, 2004.
2. U.S. Patent No. 6,778,834 – Timo M Laitinen, Jarkko Lempiö, Tomi Heinonen, Mikko Rautiainen, Ari Aarnio, U.S., Application Serial No. 794373, PUSH CONTENT FILTERING, Patent issued on August 17, 2004.
3. U.S. Patent No. 6,795,421 – Tomi Heinonen, Timo Laitinen, U.S., Application Serial No. 072969, SHORT-RANGE RF ACCESS POINT DESIGN ENABLING SERVICES TO MASTER AND SLAVE MOBILE DEVICES, Patent issued on September 21, 2004.
4. U.S. Patent No. 6,831,896 – Jarkko Lempiö, Miska Hiltunen, Tomi Heinonen, U.S., Application Serial No. 614508, SHORT RANGE RF NETWORK, Patent issued on December 14, 2004.
5. U.S. Patent No. 6,847,625 – Tomi Heinonen, Timo Perälä., U.S., Application Serial No. 10/880,571, SHORT-RANGE RF ACCESS POINT DESIGN ENABLING DYNAMIC ROLE SWITCHING BETWEEN RADIO MODULES TO OPTIMIZE SERVICE DELIVERY, Patent issued on January 25, 2005.
6. Republic of China Patent No. I 233310 – Tomi Heinonen, Kaisa Nyberg, METHOD AND SYSTEM FOR ACCESS POINT ROAMING, Patent issued on May 21, 2005.
7. U.S. Patent No. 6,954,443 – Antti Forstadius, Tomi Heinonen, U.S., Application Serial No. 09/803,534, SHORT RANGE RF NETWORK WITH ROAMING TERMINALS, Patent issued on October 11, 2005.
8. U.S. Patent No. 6,968,153 – Tomi Heinonen, Timo Laitinen, Jarkko Lempiö., U.S., Application Serial No. 10/097226, BLUETOOTH REPEATER, Patent issued on November 22, 2005.
9. U.S. Patent No. 6,990,316 – Tomi Heinonen, Mikko Rautiainen, Jarkko Lempiö., U.S. Application Serial No. 09/891,368, SHORT RANGE RF NETWORK CONFIGURATION, Patent issued on January 24, 2006.
10. U.S. Patent No. 7,009,956 – Tomi Heinonen, Antti Forstadius, Jarkko Lempiö, Mikko Rautiainen., U.S., Application Serial No. 10/028,514, WLAN INTERFACE TO SHORT RANGE RF NETWORK, Patent issued on March 7, 2006.
11. U.S. Patent No. 7,103,313 – Tomi Heinonen, Janne Kallio., U.S., Application Serial No 10/161657, NETWORK SERVICE IDENTIFICATION CONTAINING KEYWORDS, Patent issued on September 5, 2006.
12. U.S. Patent No. 7,113,763 – Tomi Heinonen, Timo Laitinen, Pekka Suvitaival, Paavo Hynynen, Franck Maillot., U.S., Application Serial No 10/162290, BLUETOOTH ACCESS POINT AND REMOTE MODULES, Patent issued on September 26, 2006.
13. U.S.Patent No. 7107010 – Tomi Heinonen, Timo Saarela., U.S., Application Serial No 10/414138, SHORT-RANGE RADIO TERMINAL ADAPTED FOR DATA STREAMING AND REAL TIME SERVICES, Patent issued on September 12, 2006.
14. U.S. Patent No. 7,123,878 – Tomi Heinonen, Timo M. Laitinen), Tommy Ginman, Timo K. Perälä., U.S., Application Serial No 10/172516, CONNECTIVITY TOOL IN BLUETOOTH DEVICES, Patent issued on October 17, 2006.
15. U.S. Patent No. 7,151,764 – Tomi Heinonen, Timo M. Laitinen., U.S., Application Serial No 09/985192, SERVICE NOTIFICATION ON LOW BLUETOOTH LAYER, Patent issued on 19.12.2006.

16. CN 02821646.6 / DE / EP / FR / GB / KR – Tomi Heinonen, Timo M. Laitinen, CUSTOMIZED MESSAGING BETWEEN BLUETOOTH ACCESS POINT AND SERVICES, Patent issued on 11.7.2007.
17. DE 60311237.4 / EP / FR / GB / IT – Tomi Heinonen. Timo M. Laitinen, PERSONAL PROFILE TO BLUETOOTH, Patent issued on 17.1.2007.
18. U.S. Patent No. 7,218,644 – Timo M. Laitinen, Tomi Heinonen, Jarkko Lempiö, DYNAMIC BANDWIDTH ALLOCATION FOR BLUETOOTH ACCESS POINT CONNECTIONS, Patent issued on 15.5.2007.
19. US Patent 7249182 - Heinonen Tomi, Laitinen Timo, Bouet Stephan, Zakharia Sany, Personal profile sharing and management for short-range wireless terminals, Patent issued
20. US 20020154607A1 - Antti Forstadius, Tomi Heinonen, Jari Leppanen, Short range RF network configuration, Issued patent: 7200130 (Issue date 3 Apr 2007)
21. **Issued patent:** [7295862](#) (Issue date 13 Nov 2007), Timo M. Laitinen, Jarkko Lempio, Tomi Heinonen, Mikko Rautiainen, Ari Aarnio, Push content filtering for broadcast communication.
22. Powerline based network, T Heinonen, TM Laitinen, P Suvitaival, P Hynynen, ... - EP Patent 1,370,029, 2003
23. Advertisement or automatic determination of access point contents of available services for short- ...T Heinonen, JJ Kallio - EP Patent 1,370,050, 2003
24. Application number: 10/028,514 Publication number: US 2002/0105931 A1 Filing date: 20 Dec 2001 Inventors: Tomi Heinonen, Antti Forstadius, Jarkko Lempio, Mikko Rautiainen Issued patent: 7009956 (Issue date 7 Mar 2006), Address sharing.
25. Korean Patent Number 880741 – Tomi Heinonen, Pasi Kauppinen, PHYSIOLOGICAL EVENT HANDLER, Patent Granted on 20-January-2009.
26. Heinonen T., "TWIN-CAMERA SOLUTION UTILIZING ONE CAMERA INTERFACE" in South Korea / Republic of Korea. The grant date is 09 Jul 2009 and the patent number is 0908028.

Some Patents Pending:

1. Heinonen T., Laitinen T., Ginman T., Perälä T., Bluetooth Network and RemotePage capable of connecting remote Bluetooth devices, Under evaluation in CN, EP, and US.
2. Lempiö J., Heinonen T., AUTOMATIC PROFILE CHANGE IN MOBILE PHONES USING BLUETOOTH, under evaluation in EP, KR, and US.
3. Kraft C., Nielsen P., Heinonen T., DYNAMIC PLACEMENT OF POP-UPS WHILE WATCHING MOBILE TV, Filed to United States on 26.10.2005 (NC 49530/USA).
4. Heinonen T., Kalevo Ossi., METHOD AND SYSTEM FOR COLOR MANAGEMENT IN DIGITAL IMAGING, Filed to United States on 2007.
5. *Heinonen T., GRAPHICS/DISPLAY APPARATUS AND METHOD, Filed to United States on 26.2.2008.*