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(54) Title: PROVISIONING WIRELESS COMMUNICATION PROFILES IN A HEADLESS DEVICE

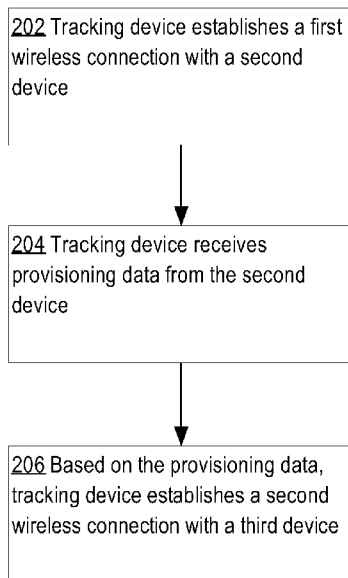


FIG. 2

(57) Abstract: Approaches, techniques, and mechanisms are disclosed for provisioning wireless device profiles of a wireless computing device. In this context, a wireless device profile generally may comprise one or more network and device settings including network identifiers, network security types, network keys, and other configuration information that enables a computing device to connect to a particular wireless computer network. According one embodiment, a computer-implemented method comprises establishing, with a first device, a first wireless connection of a first wireless connection type; receiving, from the first device via the first wireless connection, provisioning data for establishing, with a second device, a second wireless connection of a second wireless connection type that is different than the first wireless connection type; establishing, based on the provisioning data, the second wireless connection with the second device.

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<b>A. CLASSIFICATION OF SUBJECT MATTER</b> INV. H04W8/00 H04L12/24 H04W76/02 ADD. A01K11/00 H04W84/12 H04W88/06		
According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b>		
Minimum documentation searched (classification system followed by classification symbols) H04W H04L A01K		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EPO-Internal, WPI Data		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2011/139962 A1 (SMSC HOLDINGS S A R L [LU]; SUBRAMANIAM RAMANATHAN [US]) 10 November 2011 (2011-11-10) paragraph [0004] - paragraph [0005] paragraph [0015] paragraph [0034] - paragraph [0038]; figure 3 paragraph [0049] - paragraph [0051] -----	1-40
X	US 2013/036231 A1 (SUUMAEMI JAN [FI]) 7 February 2013 (2013-02-07) paragraph [0242] - paragraph [0245]; figure 6B paragraph [0004] - paragraph [0005] paragraph [0207]; figure 2 paragraph [0185] ----- -/--	1-40
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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 2 096 505 A1 (ABB RESEARCH LTD [CH]) 2 September 2009 (2009-09-02) paragraph [0021]; figure 1 paragraph [0027] - paragraph [0034] -----	1-40
X	W0 2007/001629 A2 (MICROSOFT CORP [US]) 4 January 2007 (2007-01-04) paragraph [0061]; figure 8 -----	1-40
X	Ning Zhang: "Wi-Fi Direct based smart Set-up (WDSS) in Lighting Systems", M.Sc. Thesis Delft University of Technology, 15 May 2012 (2012-05-15), XP055092589, Retrieved from the Internet: URL: <a href="http://repository.tudelft.nl/assets/uu-id:97cde5a8-d93a-4729-86c2-b6b23bab959e/thesis[1].pdf">http://repository.tudelft.nl/assets/uu-id:97cde5a8-d93a-4729-86c2-b6b23bab959e/thesis[1].pdf</a> [retrieved on 2013-12-10] section 4.1.2; page 26 - page 30; figures 4.10-4.13 -----	1-40

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No PCT/US2014/028409
---

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2011139962 A1	10-11-2011	JP 2013530601 A	25-07-2013
		KR 20130082073 A	18-07-2013
		US 2011289229 A1	24-11-2011
		WO 2011139962 A1	10-11-2011
-----			
US 2013036231 A1	07-02-2013	EP 2740315 A1	11-06-2014
		US 2013036231 A1	07-02-2013
		WO 2013021094 A1	14-02-2013
-----			
EP 2096505 A1	02-09-2009	DE 102009010730 A1	01-10-2009
		EP 2096505 A1	02-09-2009
		US 2009224906 A1	10-09-2009
-----			
WO 2007001629 A2	04-01-2007	BR PI0612247 A2	26-10-2010
		CA 2608632 A1	04-01-2007
		CN 101185253 A	21-05-2008
		CN 103607778 A	26-02-2014
		EP 1894314 A2	05-03-2008
		JP 4879980 B2	22-02-2012
		JP 2008547315 A	25-12-2008
		KR 20080017357 A	26-02-2008
		KR 20120117910 A	24-10-2012
		RU 2010143265 A	27-04-2012
		US 2007015463 A1	18-01-2007
		US 2010093278 A1	15-04-2010
		US 2011287718 A1	24-11-2011
		US 2012214414 A1	23-08-2012
		WO 2007001629 A2	04-01-2007
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