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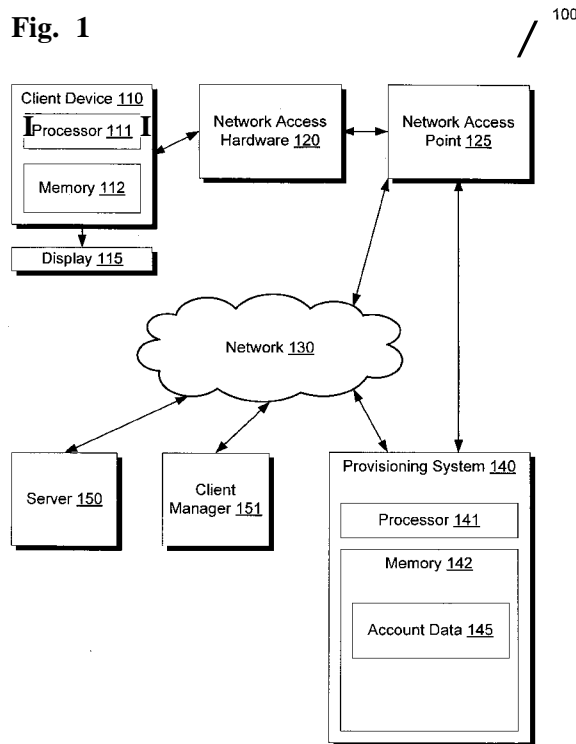
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[Continued on nextpage]

(54) Title: SYSTEM AND METHOD FOR ADAPTIVE BILLING

Fig. 1



(57) Abstract: Provided are systems and methods for execution by a processor of a client device and/or a provisioning system to provide adaptive billing. One method comprises receiving one or more available network access plans from a network provider when a current usage of a client device has passed a usage threshold of a current network access plan, providing the available network access plans for selection by a user, receiving a selected network access plan from the user, and transmitting the selected network access plan to the network provider to increase usage of the client device according to the selected network access plan.



TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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**INTERNATIONAL SEARCH REPORT**

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A. CLASSIFICATION OF SUBJECT MATTER  
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 ADD.  
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B. FIELDS SEARCHED  
 Minimum documentation searched (classification system followed by classification symbols)  
 H04M H04W

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)  
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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2005/266825 AI (CLAYTON STEVE [US] ) 1 December 2005 (2005-12-01) the whole document -----	1-20
X	EP 1 191 776 A2 (FUJITSU LTD [JP] ) 27 March 2002 (2002-03-27) the whole document -----	1-20
X	US 2010/110890 AI (RAINER BRIAN [US] ET AL) 6 May 2010 (2010-05-06) the whole document -----	1-20
X, P	W0 2011/033144 AI (FERR0 M F M) 24 March 2011 (2011-03-24) the whole document -----	1-20

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

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PCT/US2011/001516

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2005266825	AI	01-12-2005	US 2005266825 AI 01-12-2005
			US 2007298763 AI 27-12-2007
			US 2007298764 AI 27-12-2007
			US 2010093309 AI 15-04-2010
-----			
EP 1191776	A2	27-03 -2002	EP 1191776 A2 27-03 -2002
			JP 2002092099 A 29-03 -2002
			KR 20020022534 A 27-03 -2002
			US 2002035479 AI 21-03 -2002
-----			
US 2010110890	AI	06-05 -2010	NONE
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Wo 2011033144	AI	24-03 -2011	EP 2479973 AI 25-07 -2012
			US 2012202456 AI 09-08 -2012
			WO 2011033144 AI 24-03 -2011
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