

Title (en)
Method and apparatus for transparently determining call service options

Title (de)
Verfahren und Vorrichtung zur transparenten Feststellung von Anrufdienstoptionen

Title (fr)
Procédé et dispositif de détermination transparente des options de services d'appels

Publication
EP 1252775 A2 20021030 (EN)

Application
EP 01901874 A 20010108

Priority
• US 0100575 W 20010108
• US 47945600 A 20000106

Abstract (en)
[origin: WO0150734A2] A system and method for transparent determination of call service options in a wireless communications system. The present invention initializes a call as a voice call by default. Detectors are then put in place for detecting tones specific to facsimile and data calls. If a facsimile or data call is detected, the call is renegotiated as a facsimile or data call, respectively. If a facsimile or data call is not detected, the call is maintained as a voice call. The detection of facsimile tones may be performed at the call origination side and at the call termination side. The detection of data tones can only be performed at the call termination side. For detecting facsimile calls, a called tone detector is implemented at the call termination side and a calling tone detector is implemented at the call origination side. The called tone for a facsimile machine is a combination of a 2100 hertz tone followed by a V.21 signal having a 0x7e data pattern or a single V.21 signal having a 0x7e data pattern. The calling tone for a facsimile machine is a pure 1100 hertz tone. For detecting data calls, a called tone detector is implemented at the call termination side. The called tone for a data modem is a combination of a V.25 signal followed by a modem tone, a single V.25 signal, or modem tones.

IPC 1-7
H04Q 7/22; **H04Q 7/32**

IPC 8 full level
H04M 11/06 (2006.01); **H04M 11/00** (2006.01); **H04N 1/00** (2006.01); **H04N 1/32** (2006.01); **H04N 1/327** (2006.01); **H04W 76/02** (2009.01); **H04W 92/18** (2009.01); **H04W 76/04** (2009.01)

CPC (source: EP)
H04M 11/06 (2013.01); **H04N 1/00307** (2013.01); **H04N 1/32704** (2013.01); **H04N 1/32708** (2013.01); **H04N 1/32713** (2013.01); **H04N 1/32717** (2013.01); **H04N 1/32719** (2013.01); **H04N 1/32721** (2013.01); **H04N 1/32726** (2013.01); **H04N 1/3275** (2013.01); **H04W 76/10** (2018.01); **H04W 92/18** (2013.01)

Citation (search report)
See references of WO 0150734A2

Citation (examination)
• US 5892816 A 19990406 - SIH GILBERT C [US], et al
• US RE35740 E 19980303 - PIASECKI JOSHUA [IL], et al
• US 5787116 A 19980728 - LAM THANH [US], et al
• US 5787810 A 19980804 - STEPHAN GUENTER [DE]

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
WO 0150734 A2 20010712; **WO 0150734 A3 20020124**; AU 2772801 A 20010716; BR 0107463 A 20041103; CN 1416654 A 20030507; CN 1416654 B 20100929; EP 1252775 A2 20021030; HK 1053406 A1 20031017; JP 2003524955 A 20030819; JP 4741143 B2 20110803; KR 100828465 B1 20080513; KR 100915562 B1 20090903; KR 20020071922 A 20020913; KR 20080005311 A 20080110; TW I293003 B 20080121

DOCDB simple family (application)
US 0100575 W 20010108; AU 2772801 A 20010108; BR 0107463 A 20010108; CN 01806238 A 20010108; EP 01901874 A 20010108; HK 03105317 A 20030723; JP 2001550988 A 20010108; KR 20027008750 A 20020705; KR 20077030028 A 20010108; TW 90100277 A 20010410