

Title (en)  
ACTIVATION OF MULTIPLE xDSL MODEMS WITH IMPLICIT CHANNEL PROBE

Title (de)  
AKTIVIERUNG VON MEHREREN xDSL-MODEMS MIT IMPLIZITEN KANAL PROBE

Title (fr)  
ACTIVATION DE MULTIPLES MODEMS xDSL AU MOYEN D'UNE SONDE DE CANAL IMPLICITE

Publication  
**EP 0990311 A4 20031210 (EN)**

Application  
**EP 99914300 A 19990331**

Priority  

- US 9906986 W 19990331
- US 8031098 P 19980401
- US 8985098 P 19980619
- US 9366998 P 19980722
- US 9447998 P 19980729

Abstract (en)  
[origin: WO9950967A1] Apparatus and method for establishing a communication link. A negotiation data transmitting section (54) transmits carriers to a responding communication device (4). A negotiation data receiving section (54) receives carriers from the responding communication device (4), in response to the transmitted carriers. A selecting device selects an appropriate communication device from a plurality of communication devices in accordance with the responding communication device (4), in order to establish a communication channel (5).

IPC 1-7  
**H04L 5/14**; **H04L 29/06**

IPC 8 full level  
**H04J 1/00** (2006.01); **H04L 1/00** (2006.01); **H04L 1/24** (2006.01); **H04L 5/14** (2006.01); **H04L 12/12** (2006.01); **H04L 12/66** (2006.01); **H04L 27/26** (2006.01); **H04L 29/02** (2006.01); **H04L 29/06** (2006.01); **H04L 29/08** (2006.01); **H04M 11/00** (2006.01); **H04M 11/06** (2006.01); **H04L 1/18** (2006.01)

CPC (source: EP KR US)  
**H04L 1/0001** (2013.01 - EP); **H04L 1/0026** (2013.01 - EP); **H04L 1/24** (2013.01 - EP); **H04L 5/0044** (2013.01 - EP KR US); **H04L 5/143** (2013.01 - EP); **H04L 5/1446** (2013.01 - EP); **H04L 5/1453** (2013.01 - EP); **H04L 12/16** (2013.01 - KR); **H04L 27/2602** (2013.01 - EP KR US); **H04L 27/2614** (2013.01 - EP); **H04L 1/18** (2013.01 - EP); **H04L 5/0007** (2013.01 - EP); **Y02D 30/50** (2020.08 - EP)

Citation (search report)  

- [E] EP 0974202 A1 20000126 - MATSUSHITA GRAPHIC [JP] & WO 9935756 A1 19990715 - MATSUSHITA GRAPHIC COMMUNIC [JP], et al
- [XY] EP 0820168 A2 19980121 - TEXAS INSTRUMENTS INC [US]
- [Y] US 5644573 A 19970701 - BINGHAM JOHN A C [US], et al
- See references of WO 9950967A1

Designated contracting state (EPC)  
DE FR GB IT NL

DOCDB simple family (publication)  
**WO 9950967 A1 19991007**; AU 3218199 A 19991018; CA 2288283 A1 19991007; CA 2288283 C 20070612; CA 2396963 A1 19991007; CA 2396963 C 20061010; CA 2398865 A1 19991007; CA 2398865 C 20060502; CA 2407503 A1 19991007; CA 2407503 C 20060829; CA 2417991 A1 19991007; CA 2417991 C 20060801; CA 2445332 A1 19991007; CA 2445332 C 20080108; CA 2445334 A1 19991007; CA 2445334 C 20080805; CN 100340067 C 20070926; CN 100517991 C 20090722; CN 100530986 C 20090819; CN 1266558 A 20000913; CN 1293705 C 20070103; CN 1312848 C 20070425; CN 1327629 C 20070718; CN 1327630 C 20070718; CN 1492592 A 20040428; CN 1492593 A 20040428; CN 1501591 A 20040602; CN 1507165 A 20040623; CN 1507166 A 20040623; CN 1527488 A 20040908; EP 0990311 A1 20000405; EP 0990311 A4 20031210; EP 1341337 A2 20030903; EP 1341337 A3 20031210; EP 1341338 A2 20030903; EP 1341338 A3 20040102; EP 1341339 A2 20030903; EP 1341339 A3 20040102; EP 1341340 A2 20030903; EP 1341340 A3 20040102; EP 1398898 A1 20040317; EP 1414180 A2 20040428; EP 1414180 A3 20040506; EP 3236612 A1 20171025; JP 2002247138 A 20020830; JP 2002500855 A 20020108; JP 2004048681 A 20040212; JP 2004048785 A 20040212; JP 2004112821 A 20040408; JP 3441081 B2 20030825; JP 3488234 B1 20040119; JP 3502092 B1 20040302; JP 3715289 B2 20051109; JP 4195558 B2 20081210; KR 100422755 B1 20040312; KR 100431692 B1 20040517; KR 100431693 B1 20040517; KR 100431695 B1 20040517; KR 100441921 B1 20040730; KR 100514052 B1 20050913; KR 100514057 B1 20050913; KR 20010012669 A 20010226; KR 20030055348 A 20030702; KR 20030059343 A 20030707; KR 20030059344 A 20030707; KR 20030059345 A 20030707; KR 20040010851 A 20040131; KR 20040013147 A 20040211; KR 20040013148 A 20040211; KR 20040015361 A 20040218; KR 20040015362 A 20040218; MY 126542 A 20061031; SG 123553 A1 20060726; SG 123554 A1 20060726; TW 439369 B 20010607

DOCDB simple family (application)  
**US 9906986 W 19990331**; AU 3218199 A 19990331; CA 2288283 A 19990331; CA 2396963 A 19990331; CA 2398865 A 19990331; CA 2407503 A 19990331; CA 2417991 A 19990331; CA 2445332 A 19990331; CA 2445334 A 19990331; CN 02157526 A 19990331; CN 02157537 A 19990331; CN 03108238 A 19990331; CN 03109203 A 19990331; CN 200310104605 A 19990331; CN 200310104606 A 19990331; CN 99800365 A 19990331; EP 03007771 A 19990331; EP 03007772 A 19990331; EP 03007773 A 19990331; EP 03007777 A 19990331; EP 03028105 A 19990331; EP 03028106 A 19990331; EP 17153837 A 19990331; EP 99914300 A 19990331; JP 2001381749 A 20011214; JP 2003112224 A 20030416; JP 2003311710 A 20030903; JP 2003373344 A 20031031; JP 54969599 A 19990331; KR 19997010630 A 19991117; KR 20037008008 A 20030614; KR 20037008009 A 20030614; KR 20037008010 A 20030614; KR 20037008011 A 20030614; KR 20047000598 A 19990331; KR 20047000599 A 19990331; KR 20047000600 A 19990331; KR 20047000601 A 19990331; KR 20047000602 A 19990331; MY P119991224 A 19990331; SG 200302080 A 19990331; SG 200302086 A 19990331; TW 88105048 A 19990427