

Title (en)

EXTERNAL ANTENNA FOR A WIRELESS LOCAL LOOP SYSTEM

Title (de)

EXTERNE ANTENNE FÜR EIN DRAHTLOSES ANSCHLUSSLEITUNGSSYSTEM

Title (fr)

ANTENNE EXTERIEURE DESTINEE A UN SYSTEME DE LIGNE D'ABONNE SANS FIL

Publication

**EP 1362488 A4 20040623 (EN)**

Application

**EP 02706084 A 20020201**

Priority

- US 0202759 W 20020201
- US 77551001 A 20010205
- US 29068201 P 20010315
- US 88992701 A 20010709

Abstract (en)

[origin: WO02063895A1] A wireless local loop system (fig. 1) is provided that includes a wireless base station (24) that communicates with a subscriber (44) station via a wireless link. The wireless link can carry a voice service, such as telephone calls, or a data service, such as internet browsing. The subscriber station is attached to an externally mounted steerable antenna. The antenna can be oriented in a desired direction during the transception of a voice or data service. A method of transceiving between a wireless local loop subscriber station and a wireless local loop base station is also provided.

IPC 1-7

**H01Q 3/24**; **H01Q 21/06**; **H04L 12/28**; **H04B 7/26**

IPC 8 full level

**H01Q 1/22** (2006.01); **H01Q 1/24** (2006.01); **H01Q 3/24** (2006.01); **H01Q 9/04** (2006.01); **H01Q 21/06** (2006.01); **H01Q 21/20** (2006.01); **H01Q 21/28** (2006.01); **H04L 12/56** (2006.01); **H04W 84/14** (2009.01); **H04W 16/24** (2009.01)

CPC (source: EP)

**H01Q 1/22** (2013.01); **H01Q 1/241** (2013.01); **H01Q 3/24** (2013.01); **H01Q 9/0407** (2013.01); **H01Q 21/065** (2013.01); **H01Q 21/205** (2013.01); **H01Q 21/28** (2013.01); **H04W 84/14** (2013.01); **H04W 16/24** (2013.01)

Citation (search report)

- [X] EP 0788284 A1 19970806 - NORTHERN TELECOM LTD [CA]
- [X] JP H0215720 A 19900119 - MITSUBISHI ELECTRIC CORP
- [Y] EP 0847209 A2 19980610 - NORTHERN TELECOM LTD [CA]
- [Y] WO 9962205 A1 19991202 - WORLD ACCESS INC [US]
- See references of WO 02063895A1

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 02063895 A1 20020815**; CA 2471303 A1 20020815; CN 100438641 C 20081126; CN 1554198 A 20041208; EP 1362488 A1 20031119; EP 1362488 A4 20040623

DOCDB simple family (application)

**US 0202759 W 20020201**; CA 2471303 A 20020201; CN 02807899 A 20020201; EP 02706084 A 20020201