

Title (en)

CELLULAR BASE STATION AUGMENTATION

Title (de)

VERMEHRUNG EINER ZELLULAREN BASISSTATION

Title (fr)

AUGMENTATION D'UNE STATION DE BASE CELLULAIRE

Publication

**EP 1224748 A2 20020724 (EN)**

Application

**EP 00973160 A 20001027**

Priority

- IB 0001686 W 20001027
- US 16191899 P 19991028
- US 17765300 P 20000127

Abstract (en)

[origin: WO0131807A2] A system and method of augmenting existing and operational base stations to include multiple diversity schemes and to render passive antenna elements active is presented herein. The passive antenna array of the existing base station is replaced with an active antenna array, consisting of an active radiator unit that includes an array of both receive and transmit antenna elements. The transmit and receive antenna elements of the active radiator unit, respectively, are connected to transmit amplifiers and bandpass filters located at a masthead or at the top of the building.

IPC 1-7

**H04B 7/06**; **H01Q 1/24**; **H04B 7/005**

IPC 8 full level

**H04B 7/02** (2006.01); **H01Q 1/24** (2006.01); **H04B 7/04** (2006.01); **H04B 7/06** (2006.01); **H04B 7/10** (2006.01); **H04B 7/26** (2006.01); **H04W 16/24** (2009.01)

CPC (source: EP)

**H01Q 1/246** (2013.01); **H04B 7/04** (2013.01); **H04B 7/0671** (2013.01); **H04B 7/0678** (2013.01); **H04B 7/10** (2013.01); **H04W 16/24** (2013.01)

Citation (search report)

See references of WO 0131807A2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**WO 0131807 A2 20010503**; **WO 0131807 A3 20011227**; AU 1170201 A 20010508; EP 1224748 A2 20020724; JP 2003513506 A 20030408

DOCDB simple family (application)

**IB 0001686 W 20001027**; AU 1170201 A 20001027; EP 00973160 A 20001027; JP 2001533647 A 20001027