

(19)



(11)

**EP 1 027 775 B8**

(12)

**CORRECTED EUROPEAN PATENT SPECIFICATION**

Note: Bibliography reflects the latest situation

(15) Correction information:

**Corrected version no 1 (W1 B1)**  
**Bibliography INID code(s) 73**

(51) Int Cl.:

**H04B 7/185 (2006.01) H04B 7/204 (2006.01)**

(48) Corrigendum issued on:

**21.11.2007 Bulletin 2007/47**

(86) International application number:

**PCT/US1998/021497**

(45) Date of publication and mention of the grant of the patent:

**08.08.2007 Bulletin 2007/32**

(87) International publication number:

**WO 1999/023769 (14.05.1999 Gazette 1999/19)**

(21) Application number: **98953407.8**

(22) Date of filing: **12.10.1998**

**(54) WIRELESS COMMUNICATION USING AN AIRBORNE SWITCHING NODE**

SCHNURLOSE KOMMUNIKATION MIT EINER LUFTGESTÜTZTEN VERMITTLUNGSSTELLE  
COMMUNICATION SANS FIL UTILISANT UN NOEUD DE COMMUTATION AEROPORTE

(84) Designated Contracting States:  
**DE FR GB IT NL SE**

(30) Priority: **30.10.1997 US 961385**

(43) Date of publication of application:  
**16.08.2000 Bulletin 2000/33**

(60) Divisional application:  
**07011719.7 / 1 826 920**

(73) Proprietor: **RAYTHEON COMPANY**  
**Waltham, MA 02541-1449 (US)**

(72) Inventors:

- **MARTIN, James, N.**  
**Allen, TX 75013 (US)**
- **LANGSTON, J., Leland**  
**Richardson, TX 75082 (US)**

(74) Representative: **UEXKÜLL & STOLBERG**  
**Patentanwälte**  
**Beselerstrasse 4**  
**22607 Hamburg (DE)**

(56) References cited:

**EP-A- 0 600 699**                      **EP-A- 0 837 567**  
**WO-A-93/09613**                 **WO-A-97/07609**  
**WO-A-97/21282**

- **MARTIN J N ET AL: "Broadband wireless services from High Altitude Long Operation (HALO/sup TM/) aircraft" WIRELESS TECHNOLOGIES AND SYSTEMS: MILLIMETER-WAVE AND OPTICAL, DALLAS, TX, USA, 5 NOV. 1997, vol. 3232, pages 9-20, XP002093950 ISSN 0277-786X, Proceedings of the SPIE - The International Society for Optical Engineering, 1998, SPIE-Int. Soc. Opt. Eng, USA**
- **AYYAGARI A ET AL: "AIRBORNE INFORMATION AND RECONNAISSANCE NETWORK" MILCOM 1996 CONFERENCE PROCEEDINGS, MCLEAN, VA., OCT. 21 - 24, 1996, vol. 1, no. CONF. 15, 22 October 1996, pages 230-234, XP000697280 INSTITUTE OF ELECTRICAL ANDELECTRONICS ENGINEERS**
- **SAMEJIMA S: "Phased array antenna systems for commercial applications in Japan" 1996 IEEE INTERNATIONAL SYMPOSIUM ON PHASED ARRAY SYSTEMS AND TECHNOLOGY. REVOLUTIONARY DEVELOPMENTS IN PHASED ARRAYS (CAT. NO.96TH8175), PROCEEDINGS OF INTERNATIONAL SYMPOSIUM ON PHASED ARRAY SYSTEMS AND TECHNOLOGY, BOSTON, MA, USA, 15-18 OCT. 1996, pages 237-242, XP002093951 ISBN 0-7803-3232-6, 1996, New York, NY, USA, IEEE, USA**

Note: Within nine months from the publication of the mention of the grant of the European patent, any person may give notice to the European Patent Office of opposition to the European patent granted. Notice of opposition shall be filed in a written reasoned statement. It shall not be deemed to have been filed until the opposition fee has been paid. (Art. 99(1) European Patent Convention).

**EP 1 027 775 B8**

- DJUKNIC: "Establishing wireless communications services via High-Altitude Aeronautical platforms: a concept whose time has come?" IEEE COMMUNICATIONS MAGAZINES, vol. 35, no. 9, September 1997 (1997-09), pages 128-135,