9801659-5 IPOS copy

PCT WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : H04B 7/26 — A1

(11) International Publication Number: WO 97/06611

(43) International Publication Date: 20 February 1997 (20.02.97)

(21) International Application Number: PCT/EP96/03460

(22) International Filing Date: 1 August 1996 (01.08.96)

(30) Priority Data:
(1) 95202124.4 3 August 1995 (03.08.95) EP
(34) Countries for which the regional or international application was filed: AT et al.

(71) Applicant (for all designated States except US): TELEFONAKTIEBOLAGET LM ERICSSON (publ) [SE/SE]; S-126 25 Stockholm (SE).

(72) Inventors; and
(75) Inventors/Applicants (for US only): ÅKERBERG, Dag, E:son [SE/SE]; Ekhammarsvägen 23, S-196 31 Kungsängen (SE).
(2) VAN DE BERG, Petrus, Hubertus, Gerardus [NL/NL]; Herengracht 6, NL-1015 BK Amsterdam (NL).

(74) Agent: DOHMEN, Johannes, Maria, Gerardus; Ericsson Business Mobile Networks B.V., P.O. Box 75564, NL-1070 AN Amsterdam (NL).

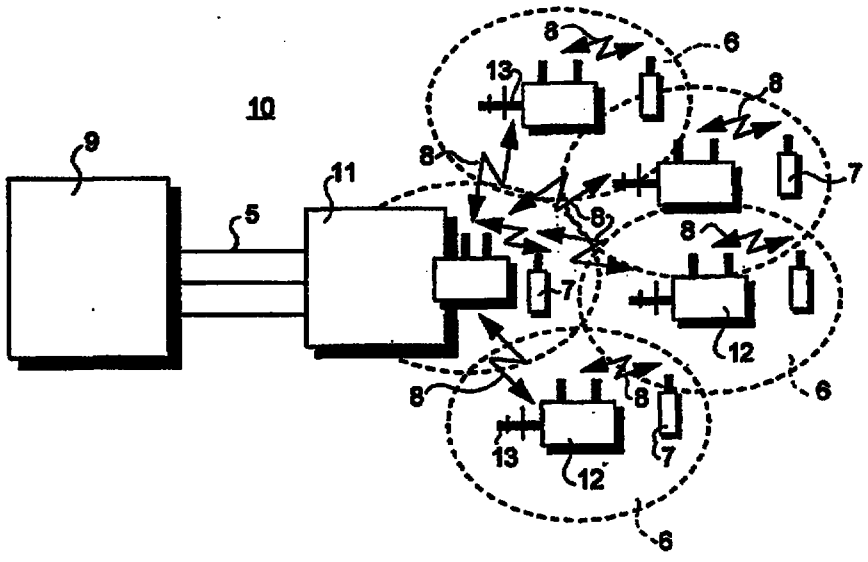
(81) Designated States: AL, AM, AU, AZ, BB, BG, BR, BY, CA, CN, CZ, EE, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, RO, RU, SD, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).

Published
With international search report.
Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

1 PD
1 appln
2 Invs.

27 MAR 1998

(54) Title: A WIRELESS MULTI-CELL RADIO TELECOMMUNICATION SYSTEM



(57) Abstract

A wireless multi-cell radio telecommunication system (10), comprising a plurality of remote radio telecommunication terminals (7) which connect through a radio air interface with a plurality of radio base stations (12). The base stations (12) are designed as a repeater or relay station, and the connection between the base stations (12) and a central control unit (11) is established using the same interface and communication protocol provided for the connections between the terminals (7) and the base stations (12). The radio interface means of a base station (12) may be advantageously used for both the connection between the base station (12) and the central control unit (11) as well as the connection between the base station (12) and the terminals (7). The radio telecommunication system (10) may operate in accordance with the Digital European Cordless Telecommunications (DECT) standard.