

9700586-2

IPOS



PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification⁶:

H04Q 7/36, 7/38

A1

(11) International Publication Number:

WO 97/00588

(43) International Publication Date:

3 January 1997 (03.01.97)

(21) International Application Number:

PCT/FI96/00354

(22) International Filing Date:

14 June 1996 (14.06.96)

(30) Priority Data:

953012

16 June 1995 (16.06.95)

FI

(71) Applicant (for all designated States except US): NOKIA
TELECOMMUNICATIONS OY [FI/FI]; Mäkkyläntie 1, FIN-02600 Espoo (FI).

(72) Inventors; and

(75) Inventors/Applicants (for US only): TIIHONEN, Jaakko
[FI/FI]; Puistokaari 13 C 36, FIN-00200 Helsinki (FI).
ANCKAR, Lars [FI/FI]; Eestintäival 10 B 8, FIN-02290
Espoo (FI).(74) Agent: OY KOLSTER AB; Iso Roobertinkatu 23, P.O. Box
148, FIN-00121 Helsinki (FI).(81) Designated States: AL, AM, AT, AU, AZ, BE, BG, BR, BY,
CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL,
IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV,
MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU,
SD, SE, 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.

(54) Title: COMMUNICATION SYSTEM AND CALL ESTABLISHMENT METHODS

(57) Abstract

The invention relates to a communication system and call establishment methods. A communication system comprising a cellular mobile communication network, which includes a mobile services switching center (MSC), a base station controller (XBSC) and base stations (BTS), as well as a private branch exchange system (PABX) having at least one base station (PABX_BTS). In the invention, the base station controller of the mobile communication network is provided with an interface to which the extension side of the PABX is coupled. The interface between the base station controller and the PABX is a standard PABX signalling interface towards the extensions. The trunk line side of the PABX is connected e.g. to a PSTN local exchange. The base station (PABX_BTS) under control of the base station controller is placed in that space or building which is the desired location for an office cell of the wireless PABX. Between the base station controller and the base stations there exists a standard signalling interface of the mobile communication network, and the base station of the office cell (10) has a standard interface of the mobile communication network. This concept makes it possible to provide a radio interface of the mobile communication system for a standard PABX of the fixed network.

