

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
27 October 2005 (27.10.2005)

PCT

(10) International Publication Number
WO 2005/101752 A1

(51) International Patent Classification⁷: **H04L 12/56**

(21) International Application Number:
PCT/EP2004/050517

(22) International Filing Date: 14 April 2004 (14.04.2004)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant (for all designated States except US): **TELECOM ITALIA S.P.A.** [IT/IT]; Piazza degli Affari, 2, I-20123 Milano (IT).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **SORBARA, Davide** [IT/IT]; Telecom Italia S.p.A., Via G. Reiss Romoli, 274, I-10148 Torino (IT). **ZUCCA, Enrico** [IT/IT]; Telecom Italia S.p.A., Via G. Reiss Romoli, 274, I-10148 Torino (IT). **MADELLA, Mario** [IT/IT]; Telecom Italia S.p.A., Via G. Reiss Romoli, 274, I-10148 Torino (IT). **CATALANO, Giuseppe** [IT/IT]; Telecom Italia S.p.A., Via G. Reiss Romoli, 274, I-10148 Torino (IT).

(74) Agents: **MACCALLI, Marco** et al.; Maccalli & Pezzoli S.r.l., Via Settembrini, 40, I-20124 Milano (IT).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

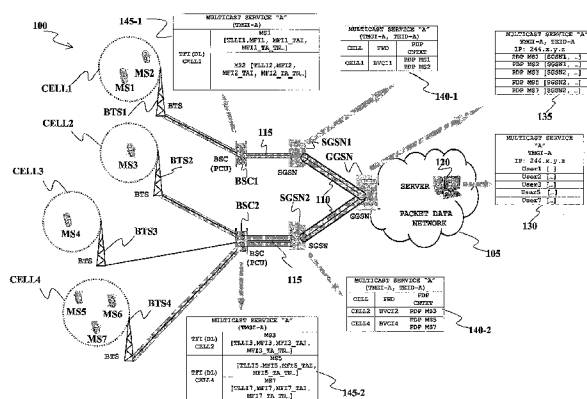
— of inventorship (Rule 4.17(iv)) for US only

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD AND SYSTEM FOR DISTRIBUTING MULTIMEDIA CONTENTS THROUGH A WIRELESS COMMUNICATIONS NETWORK, PARTICULARLY A MOBILE TELEPHONY NETWORK



(57) Abstract: In a wireless communications network (100) comprising a base station subsystem controlling at least one network cell (BSC1, BTS1, CELL1; BSC2, BTS2, CELL2, BTS3, CELL3, BTS4, CELL4), and in which the base station subsystem communicates with mobile stations (MS1, MS2, MS3, MS5, MS7) in the cell through radio blocks, a method of distributing information contents received in data packets at the base station subsystem to the mobile stations, comprising: obtaining, starting from the data packets, radio blocks (400) to be transmitted through the network cell; labeling the radio blocks with a first radio link identifier, identifying a logic connection between a mobile station and the base station 1.5 subsystem (TF₁); communicating the first radio link identifier to a first mobile station (MS1, MS3, MS5) in the network cell; and in case at least one second mobile station (MS2, MS7) in the network cell asks to receive the information contents, communicating thereto the first radio link identifier. The method further includes having the first mobile station and the at least one second mobile station assigned respective second radio link identifiers (MF₁, MF₂, MF₃, MF₅, MF₇), to be included in the radio blocks.

WO 2005/101752 A1