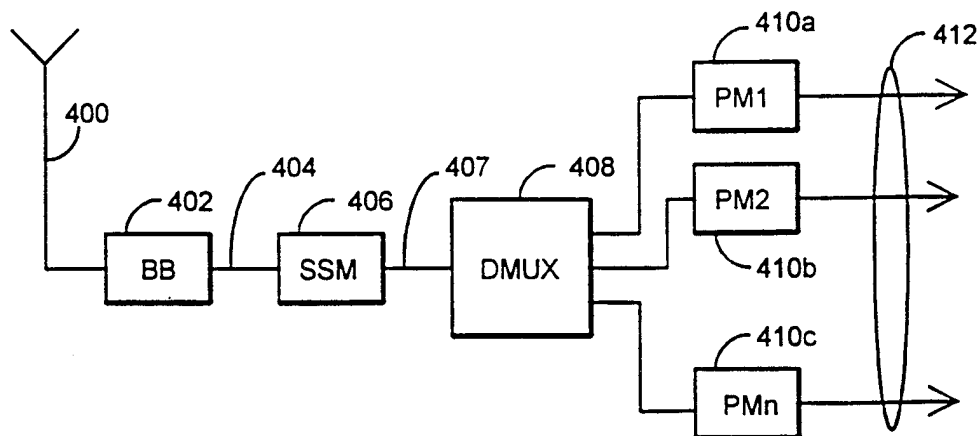




INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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<p>(21) International Application Number: PCT/FI98/00266</p> <p>(22) International Filing Date: 25 March 1998 (25.03.98)</p> <p>(30) Priority Data: 08/827,185 27 March 1997 (27.03.97) US</p> <p>(71) Applicant (for all designated States except US): NOKIA TELECOMMUNICATIONS OY [FI/FI]; Keilalahdentie 4, FIN-02150 Espoo (FI).</p> <p>(72) Inventor; and (75) Inventor/Applicant (for US only): HOTTINEN, Ari [FI/FI]; Kielotie 30 C 25, FIN-01300 Vantaa (FI).</p> <p>(74) Agent: PATENTTITOIMISTO TEKNOPOLOIS KOLSTER OY; c/o Kolster Oy Ab, Iso Roobertinkatu 23, P.O. Box 148, Fin-00121 Helsinki (FI).</p>		<p>(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), 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).</p> <p>Published <i>With international search report.</i></p> <p>(88) Date of publication of the international search report: 30 December 1998 (30.12.98)</p>

(54) Title: DATA TRANSMISSION METHOD, RECEPTION METHOD AND RECEIVER USING SEVERAL MULTIPLE ACCESS METHODS



(57) Abstract

The invention relates to a data transmission and reception method and a receiver in which signals transmitted by various multiple access methods are processed. In the solution provided by the invention, signals transmitted by various multiple access methods can be transmitted and received in frequency ranges that overlap at least in part. In the reception, signals received from one or more transmitters are converted to the desired baseband. Signals transmitted by one or more multiple access methods are separated from the received signal and from one another, and each separated signal is detected by a detector appropriate to the multiple access method used in the transmission of the signal concerned.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 98/00266

A. CLASSIFICATION OF SUBJECT MATTER				
IPC6: H04B 1/707, H04J 13/02, H04Q 7/26 According to International Patent Classification (IPC) or to both national classification and IPC				
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C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
X	WO 9520277 A1 (MOTOROLA INC.), 27 July 1995 (27.07.95), page 7; page 10, line 12 - line 21; page 13, line 7 - page 16, line 28, abstract --	1-14		
X	US 5022046 A (R.K. MORROW, JR.), 4 June 1991 (04.06.91), column 6, line 65 - column 7, line 7; column 7, line 53 - column 8, line 5; column 9, line 16 - line 25, claim 4 --	2,3,6-8,10, 12-15		
X	US 5469468 A (D.L. SCHILLING), 21 November 1995 (21.11.95), column 2, line 23 - line 62; column 17, line 17 - line 41, abstract --	12-14		
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.				
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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

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A	US 5533013 A (P. LEPPANEN), 2 July 1996 (02.07.96), column 2, line 39 - line 61; column 4, line 58 - column 5, line 18; column 7, line 2 - column 8, line 29, abstract --	1-15
A	US 5511068 A (T. SATO), 23 April 1996 (23.04.96), column 5, line 49 - column 6, line 18, claims 7-9, abstract -- -----	1-15

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Information on patent family members

27/07/98

International application No.

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