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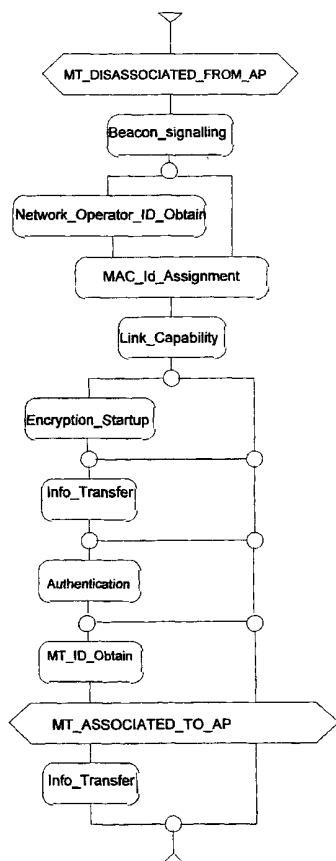
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(54) Title: METHOD FOR DEVICE REGISTRATION IN A WIRELESS HOME NETWORK

MSCAssociation_new



(57) Abstract: The invention concerns a method for registering a device in a wireless network comprising a central access point. The method comprises the steps of: sending an identification code from the device to the access point; checking by said access point whether the received identification code corresponds to the identification code sent by said device and if such checking is positive, sending an authentication key from said access point to said device; storage of said authentication key by said device for use in authentication procedures between said device and said access point. The invention is applicable among others in digital home networks.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H04L29/06 H04L12/28 H04L9/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04L H04Q G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	EP 0 944 203 A (NOKIA MOBILE PHONES LTD) 22 September 1999 (1999-09-22) page 3, column 4, line 22 -page 5, column 7, line 49; claim 1	1-5
X	& FI 980 291 A (NOKIA MOBILE PHONES LTD) 10 August 1999 (1999-08-10) the whole document	1-5
A	EP 0 658 021 A (IBM) 14 June 1995 (1995-06-14) abstract page 2, column 1, line 10 - line 50 page 3, column 4, line 24 -page 4, column 5, line 56 claims 1-6	1-5



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Patent family members are listed in annex.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 077 790 A (SHARP RONALD E ET AL) 31 December 1991 (1991-12-31) abstract column 3, line 4 -column 4, line 3 claims 1-4 -----	1-5

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 00/09256

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0944203 A	22-09-1999	FI 980291 A	10-08-1999
EP 0658021 A	14-06-1995	CA 2130396 A,C	09-06-1995
		JP 2568054 B	25-12-1996
		JP 7202883 A	04-08-1995
		US 5539824 A	23-07-1996
US 5077790 A	31-12-1991	AT 173119 T	15-11-1998
		AU 8769091 A	17-08-1992
		BR 9106726 A	29-06-1993
		CA 2087841 A,C	01-07-1992
		DE 69130458 D	10-12-1998
		EP 0565528 A	20-10-1993
		FI 930307 A	26-01-1993
		JP 2546756 B	23-10-1996
		JP 6505837 T	30-06-1994
		KR 9600935 B	15-01-1996
		WO 9212584 A	23-07-1992
		AU 649742 B	02-06-1994
		NO 930352 A	02-02-1993