

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
31 October 2002 (31.10.2002)

PCT

(10) International Publication Number
WO 02/087269 A3

(51) International Patent Classification⁷: **H04Q 7/32**

(21) International Application Number: PCT/EP02/03816

(22) International Filing Date: 5 April 2002 (05.04.2002)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/281,369 5 April 2001 (05.04.2001) US
10/114,955 4 April 2002 (04.04.2002) US

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

(72) Inventors; and

(75) Inventors/Applicants (for US only): **SMEETS, Bernard**

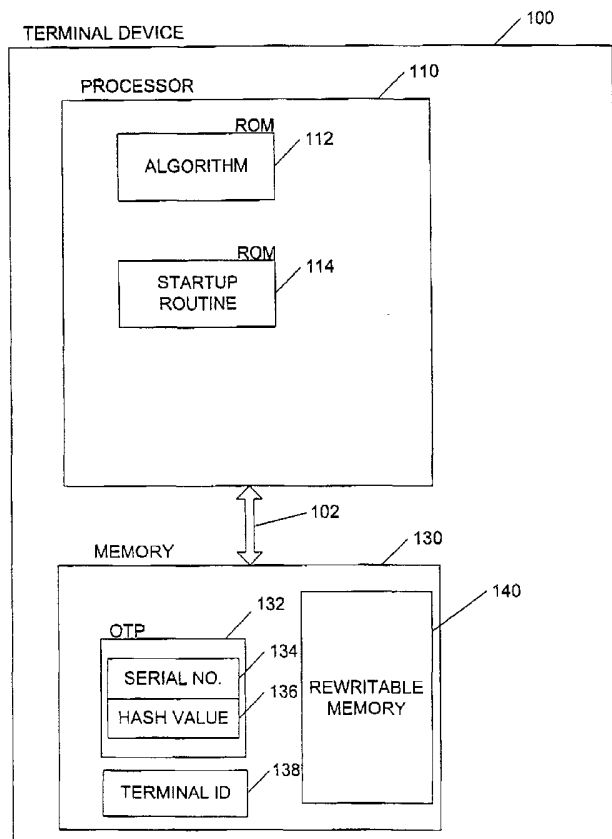
[NL/SE]; Dalbackavägen 11, S-240 10 Dalby (SE). **OSTHOFF, Harro** [DE/DE]; Ziegelsteinstrasse 189, 90411 Nürnberg (DE). **SVEDENMARK, Rickard** [SE/DE]; Ir-rerstrasse 8, 90403 Nürnberg (DE).

(74) Agent: **ERICSSON MOBILE PLATFORMS AB**; IPR Department, S-221 83 Lund (SE).

(81) Designated States (*national*): AE, AG, AL, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, ES, FI (utility model), 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, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK (utility model), SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.

[Continued on next page]

(54) Title: SYSTEM AND METHOD FOR SECURING INFORMATION IN MEMORY



(57) Abstract: A system and method for securing information in the memory of an electronic device. A terminal identifier that identifies the device is stored in memory in the device. Also stored in memory of the device is a cryptographic hash algorithm and a hash value that is calculated from the application of the hash algorithm against the terminal identifier. The terminal identifier, the hash algorithm, and the hash value are all stored in protected memory within the electronic device with the protected memory being read only memory or one time programmable memory. In response to the occurrence of an event on the electronic device, such as at time of device power up, the hash algorithm is applied against the stored terminal identifier, with the resultant hash value being compared against the stored hash value. If the two hash values fail to match, normal operation of the device is disabled.



WO 02/087269 A3



(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(88) Date of publication of the international search report:
1 May 2003

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.

Published:

— *with international search report*

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 02/03816

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H04Q7/32

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 H04Q

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	US 6 026 293 A (OSBORN WILLIAM R) 15 February 2000 (2000-02-15) column 2, line 42 -column 8, line 64 abstract; figures 4-7 ---	1-25, 31, 32 26-30
A	US 6 138 005 A (PARK HYOUNG-NAE) 24 October 2000 (2000-10-24) the whole document ---	1-32
A	WO 91 09484 A (CETELCO AS) 27 June 1991 (1991-06-27) page 4, line 1 -page 5, line 20 page 10, line 29 -page 11, line 27 page 20, line 7 - line 34 -----	

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

° Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

Date of the actual completion of the international search

7 January 2003

Date of mailing of the international search report

14/01/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Coppieters, S

INTERNATIONAL SEARCH REPORT
Information on patent family members

International Application No
PCT/EP 02/03816

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6026293	A	15-02-2000	AU 734212 B2	07-06-2001
			AU 4172297 A	26-03-1998
			BR 9712007 A	24-08-1999
			CN 1235743 A	17-11-1999
			EE 9900084 A	15-10-1999
			EP 0923842 A2	23-06-1999
			JP 2001500293 T	09-01-2001
			PL 332050 A1	16-08-1999
			WO 9810611 A2	12-03-1998
<hr/>				
US 6138005	A	24-10-2000	KR 213555 B1	02-08-1999
			GB 2324004 A , B	07-10-1998
<hr/>				
WO 9109484	A	27-06-1991	DK 624489 A	12-06-1991
			AU 7038391 A	18-07-1991
			WO 9109484 A1	27-06-1991
<hr/>				