

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
16 April 2009 (16.04.2009)

PCT

(10) International Publication Number
WO 2009/046684 A3

(51) International Patent Classification:

H04L 29/06 (2006.01)

(21) International Application Number:

PCT/CZ2008/000077

(22) International Filing Date: 4 July 2008 (04.07.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

PV 2007-713 12 October 2007 (12.10.2007) CZ

(71) Applicant (for all designated States except US): ANECT
A.S. [CZ/CZ]; Videnska 125, CZ-619-00 Brno (CZ).

(72) Inventor; and

(75) Inventor/Applicant (for US only): NEUMANN, Libor;
Brdickova 1910, CZ-155-00 Praha 5 (CZ).

(74) Agent: SPACEK, Jindrich; Svatopluka Cecha 160a,
612-00 Brno (CZ).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,

AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA,
CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE,
EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID,
IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK,
LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW,
MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT,
RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ,
TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, 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, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL,
NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG,
CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- of inventorship (Rule 4.17(iv))

Published:

- with international search report

[Continued on next page]

(54) Title: METHOD OF ESTABLISHING PROTECTED ELECTRONIC COMMUNICATION BETWEEN VARIOUS ELECTRONIC DEVICES, ESPECIALLY BETWEEN ELECTRONIC DEVICES OF ELECTRONIC SERVICE PROVIDERS AND ELECTRONIC DEVICES OF USERS OF ELECTRONIC SERVICE

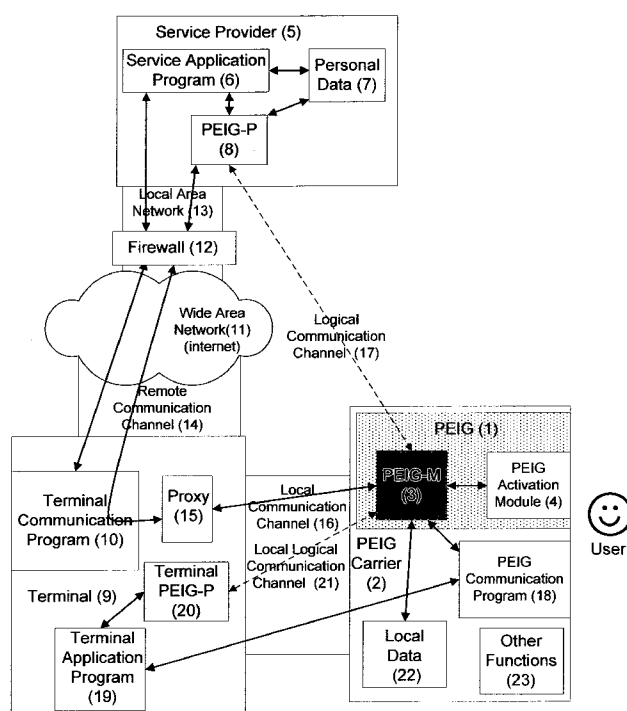


Fig. 1

(57) Abstract: A method of establishing protected electronic communication between various electronic devices, especially between electronic devices of electronic service providers (5) and electronic devices of users of electronic service and/or between local electronic devices and electronic devices of users of electronic service, based on the fact, that users of electronic service are beforehand equipped with a personal electronic identity gadget (1) bearing no information about the user identity, and only at the first connection of the blank personal gadget to the electronic devices of an arbitrary electronic service provider, and/or to the local electronic devices (9), the personal electronic identity gadget and the electronic devices of the electronic service provider, and/or the local electronic devices mutually generate a verifiable electronic identity, which is stored in the personal electronic identity gadget and in the electronic devices of the electronic service provider, and/or in the local electronic devices, for the needs of further mutual electronic communication, separately from other identities and without the knowledge of personal data about the user of electronic service, whereas consequently only the generated and stored information is utilized for verification of the identity at every subsequent connection of the user of electronic service to the electronic devices of the given electronic service provider and/or to the local electronic devices.



— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

(88) Date of publication of the international search report:
28 May 2009

INTERNATIONAL SEARCH REPORT

International application No
PCT/CZ2008/000077

A. CLASSIFICATION OF SUBJECT MATTER
INV. H04L29/06

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)
H04L

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, WPI Data, COMPENDEX, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 7 165 174 B1 (GINTER KARL L [US] ET AL) 16 January 2007 (2007-01-16) column 16, line 45 - column 18, line 31 column 29, line 51 - column 30, line 43 figures 1,13	1-6
X	WO 01/65340 A (EDENTITY LTD [GB]; HARRISON JOHN [GB]) 7 September 2001 (2001-09-07) abstract page 20, line 21 - page 25, line 5 page 28, line 14 - page 30, line 16 figures 1,2	1-6

☒ Further documents are listed in the continuation of Box C.

☒ See patent family 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

27 March 2009

Date of mailing of the international search report

15/04/2009

Name and mailing address of the ISA/
European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040,
Fax: (+31-70) 340-3016

Authorized officer

Bengi, Kemal

INTERNATIONAL SEARCH REPORT

International application No

PCT/CZ2008/000077

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	Wael Adi et al: "Bio-Inspired Electronic-Mutation with genetic properties for Secured Identification" BIO-INSPIRED, LEARNING, AND INTELLIGENT SYSTEMS FOR SECURITY, 2007. BL ISS 2007. ECSIS SYMPOSIUM ON, IEEE, PI, 1 August 2007 (2007-08-01), pages 133-136, XP031127642 ISBN: 978-0-7695-2919-6 abstract sections 3 and 4 figures 1-3	1-6
T	NEUMANN L: "Anonymous, Liberal and User-Centric Electronic Identity Supports Citizen Privacy Protection in e-Government"[Online] 25 April 2008 (2008-04-25), XP002521386 Retrieved from the Internet: URL: http://www.epma.cz/Docs/EEEGD08/Neuman_n_ALUCIDv1.pdf the whole document	1-6

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/CZ2008/000077

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 7165174	B1	16-01-2007	NONE
WO 0165340	A	07-09-2001	AU 3580801 A 12-09-2001
		EP 1261904 A2	04-12-2002
		US 2003154405 A1	14-08-2003
		US 2007271602 A1	22-11-2007