

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

To: ARIEL S. BENTOLILA P.O. BOX 210459 SAN FRANCISCO, CA 94121-0459
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Date of mailing (<i>day/month/year</i>) 09 JUL 2007

Applicant's or agent's file reference SBAT01WO	FOR FURTHER ACTION See paragraph 2 below
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International application No. PCT/US06/13786	International filing date (<i>day/month/year</i>) 12 April 2006 (12.04.2006)	Priority date (<i>day/month/year</i>) 15 April 2005 (15.04.2005)
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International Patent Classification (IPC) or both national classification and IPC IPC: Please See Continuation Sheet USPC: 713/186,68;726/29,3
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Applicant MWALE, JULIUS

1. This opinion contains indications relating to the following items:

- Box No. I Basis of the opinion
- Box No. II Priority
- Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- Box No. IV Lack of unity of invention
- Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- Box No. VI Certain documents cited
- Box No. VII Certain defects in the international application
- Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/ US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201	Date of completion of this opinion 26 June 2007 (26.06.2007)	Authorized officer Gilberto Barron Telephone No. 571-272-3799
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DEBORAH A. THOMAS
PARALEGAL SPECIALIST

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International application No.

PCT/US06/13786

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of:

- the international application in the language in which it was filed
- a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

2. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:

a. type of material

- a sequence listing
- table(s) related to the sequence listing

b. format of material

- on paper
- in electronic form

c. time of filing/furnishing

- contained in the international application as filed.
- filed together with the international application in electronic form.
- furnished subsequently to this Authority for the purposes of search.

3. In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

4. Additional comments:

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International application No.
PCT/US06/13786

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims <u>1-20</u>	YES
	Claims <u>NONE</u>	NO
Inventive step (IS)	Claims <u>NONE</u>	YES
	Claims <u>1-20</u>	NO
Industrial applicability (IA)	Claims <u>1-20</u>	YES
	Claims <u>NONE</u>	NO

2. Citations and explanations:

Claims 1-20 lacks an inventive step under PCT Article 33(3) as being obvious over US Patent 2001/0042206 to Carro et al.(hereinafter Carro) in view of US Patent 2002/0174345 to Patel.

Regarding Claim 1, 11, 12, 13, and 15, Carro discloses the performing an MAC operation of the user's fingerprint and being used in conjunction with a random number to embed within a text file see Fig. 1 item 110, 140, 160, 170 & Par. 0019 and Carro implicitly mentions the truncation of the randomized string where the MAC function produces a string of defined length. Patel further adds the telephone number(username), password(Par. 0008), the registration of the user to be used for comparison with the database containing information about the user see Par. 0077 & Par. 0012 & Fig. 8 & Fig. 4.

Regarding Claim 2-3, 18, Patel discloses the use of RSA encryption scheme see Par. 0013.

Regarding Claim 4-5, 14, 17, 20, Patel discloses the fingerprint, voice, hand and eye identification being used see Par. 0009(last sentence).

Regarding Claim 6-7, 19, Carro discloses the truncating the string and shortening the length according to desired level of protection see Par. 0024.

Regarding Claim 8, Carro discloses the generating of random number to be used for fingerprint embedding see Par. 0025 & Par. 0027.

Regarding Claim 9, Carro discloses the use of hash function on the fingerprint see Par. 0026.

Regarding Claim 10, Carro discloses the dividing of samples and adding them together and further the use of inversion see Par. 0028.

Regarding Claim 16, Carro discloses the storage devices having the program residing in them see Par. 0009.

It would be obvious to modify the invention of Carro to include the features of Patel in order to increase the level of security as mentioned by Patel see Par. 0008. And further the document mentioned in Carro could be extended to the login file, where this file contains names and password. And now additionally the fingerprint is included.

**WRITTEN OPINION OF THE
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International application No.

PCT/US06/13786

Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

The clarity of Fig. 5b can be greatly improved, if the Applicant included element names w/ the element numbers similar to Fig. 5a.

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PCT/US06/13786

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of IPC:

H04L 9/32(2006.01);**H04L 29/02**(2006.01);**H04L 9/30**(2006.01)
G06F 21/22(2006.01);G06F 21/20(2006.01)