

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference	FOR FURTHER ACTION	See item 4 below
International application No. PCT/US2004/043900	International filing date (<i>day/month/year</i>) 30 December 2004 (30.12.2004)	Priority date (<i>day/month/year</i>) 30 December 2003 (30.12.2003)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant CHANG, Ting-Mao		

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).

2. This REPORT consists of a total of 6 sheets, including this cover sheet.

In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

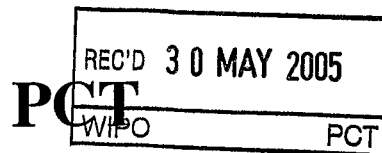
<input checked="" type="checkbox"/>	Box No. I	Basis of the report
<input type="checkbox"/>	Box No. II	Priority
<input type="checkbox"/>	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
<input type="checkbox"/>	Box No. IV	Lack of unity of invention
<input checked="" type="checkbox"/>	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
<input type="checkbox"/>	Box No. VI	Certain documents cited
<input type="checkbox"/>	Box No. VII	Certain defects in the international application
<input type="checkbox"/>	Box No. VIII	Certain observations on the international application

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis .2).

	Date of issuance of this report 03 July 2006 (03.07.2006)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Beate Giffo-Schmitt
Facsimile No. +41 22 338 82 70	e-mail: pt03@wipo.int

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY



To:
TING-MAO CHANG
2126 VILLANOVA ROAD
SAN JOSE, CA 95130

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Applicant's or agent's file reference		Date of mailing (day/month/year) 27 MAY 2005
		FOR FURTHER ACTION See paragraph 2 below
International application No. PCT/US04/43900	International filing date (day/month/year) 30 December 2004 (30.12.2004)	Priority date (day/month/year) 30 December 2003 (30.12.2003)
International Patent Classification (IPC) or both national classification and IPC IPC(7): G01C 21/26, 21/30 and US Cl.: 701/200, 201, 207, 208, 213		
Applicant CHANG, TING-MAO		

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

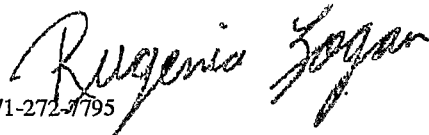
2. FURTHER ACTION

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. (703) 305-3230	Authorized officer Anthony S. Addy  Telephone No. 571-272-7795
--	---

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US04/43900

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, unless otherwise indicated under this item.

This opinion has been established on the basis of a translation from the original language into the following language _____, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 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

in written format

in computer readable form

c. time of filing/furnishing

contained in international application as filed.

filed together with the international application in computer readable 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 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:

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US04/43900

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>1-9</u>	YES
	Claims <u>10-19</u>	NO
Inventive step (IS)	Claims <u>1-9</u>	YES
	Claims <u>10-19</u>	NO
Industrial applicability (IA)	Claims <u>1-19</u>	YES
	Claims <u>NONE</u>	NO

2. Citations and explanations:

Please See Continuation Sheet

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US04/43900

Supplemental Box

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

V. 2. Citations and Explanations:

Claims 10-12 lack novelty under PCT Article 33(2) as being anticipated by Cao et al., U.S. Patent Number 6,446,004 (hereinafter Cao).

Regarding claim 10, Cao teaches a method for a mobile computing system to interact with a user to record information (see col. 1, line 62 through col. 2, line 16 and col. 6, lines 39-45), and automatically playback when encounter selected trigger condition (see col. 2, lines 8-16), the method comprising: receiving instruction from user to command said system to record information (see col. 6, lines 39-45), recording said information, detecting identifiers of a Media Access Control sublayer protocol or a data link layer protocol, scheduling first event, wherein said event will be triggered by first presence condition that related to one or more of detected identifiers, and playing back record information when said first event is triggered by said first condition (see col. 6, line 35 through col. 7, line 12 and col. 10, lines 1-66).

Regarding claim 11, Cao teaches all the limitations of claim 10. In addition, Cao teaches a method, further comprise; disabling the first event; scheduling second event, wherein said second event will be triggered by second presence condition that related to one or more identifiers that are not related to the first event, and enabling the first event by said second event when said second event is triggered (see col. 10, line 1-66).

Regarding claim 12, Cao teaches all the limitations of claim 10. In addition, Cao teaches a method, wherein said information is selected from of one or more of the following: voice, picture, and video (see col. 6, lines 2-7 and col. 10, lines 10-14).

Claims 13-18 lack novelty under PCT Article 33(2) as being anticipated by Nocek et al., U.S. Patent Number 6,587,782 (hereinafter Nocek).

Regarding claim 13, Nocek teaches a method for a mobile computing device to interact with a user to compose proximity sensitive map (see col. 1, line 66 through col. 2, line 10 and Figures 1 & 2) the method comprising: displaying a map on displayer of said system (see col. 9, lines 35-46 and Fig. 10), receiving coordinates of pointing device of said system on said displayer (see col. 9, lines 27-46 and Figures 10-11), associating said coordinates with one or more identifiers of a Media Access Control sublayer protocol or a data link layer protocol (see col. 5, line 48 through col. 6, line 24, col. 7, line 66 through col. 8, line 10 and Fig. 4), and storing said map and said association in storage of said system (see col. 5, line 48 through col. 6, line 24, col. 4, lines 22-50 and Fig. 4).

Regarding claim 14, Nocek teaches all the limitations of claim 13. In addition, Nocek teaches a method, wherein said identifier is detected by a wireless communication interface of said system within a time window before or after receiving said coordinates (see col. 9, lines 6-53).

Regarding claim 15, Nocek teaches all the limitations of claim 13. In addition, Nocek teaches a method, further comprising; scheduling an event (see col. 7, lines 28-61), wherein said event has a trigger condition that is related to said one or more identifiers (see col. 7, lines 1-14, col. 7, line 66 through col. 8, line 9 and Fig. 4), and showing a mark on said map at the coordinates related to said one or more identifiers when said trigger condition is triggered (see col. 9, lines 35-53).

Regarding claim 16, Nocek teaches a proximity sensitive map (see Figures 10-11), the map comprising: data of for displaying said map (see col. 9, lines 27-46 and Figures 10 & 11); and at least one identifier of a Media Access Control sublayer protocol or a data link layer protocol, wherein the identifier associates with a position in said map (see col. 9, lines 27-53 and Figures 10 & 11).

Regarding claim 17, Nocek teaches a traffic enforcement equipment database (see Fig. 5 showing a geographic database 162), the database comprising: at least one identifier set, wherein the identifier set includes one or more identifiers of wireless

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/US04/43900

Supplemental Box

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

communication interfaces (see col. 5, line 49 through col. 6, line 16 and Fig. 5); an information related to at least one enforcement equipment where said wireless communication interfaces are nearby (see col. 8, lines 10-53); and a linkage between said information and said identifier set (see col. 9, lines 7-23).

Regarding claim 18, Nocek teaches a database, wherein said information is one or more selected from the following group: a warning message, a template message, a time duration, a distance, and type of traffic enforcement equipment (see col. 9, lines 47-53, col. 10, lines 22-25 and Figures 10 & 11).

Claims 19 lacks novelty under PCT Article 33(2) as being anticipated by **Welch, U.S. Patent Number 6,177,905 (hereinafter Welch)**.

Regarding claim 19, Welch teaches a method for a mobile computing device to warning a user when approaches a traffic enforcement (see col. 1, lines 25-41 and Fig. 2), the method comprising: providing a warning message (see col. 3, lines 20-26); scheduling a job to generate said warning message (see col. 2, line 49 through col. 3, line 15).

Claims 1-9 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest in combination with all the recited limitations of claim 1 a method, further comprising: receiving frames repeatedly by one or more wireless communication interfaces of said computing device from wireless media, wherein each of said frames complies with a communication protocol; checking presence of said trigger identifiers in one or more fields of identifier pertaining to Media Access Control sublayer or data link layer of complied communication protocol in said frames.

Claims 1-19 meets the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.