

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To:
11000
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Nonthaburi Road, Bangkrasor, Muang Nonthaburi,
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PCT

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43 *bis*.1)

Date of mailing (day/month/year)	
20. Feb. 2019 (20. 02. 2019)	
Applicant's or agent's file reference	FOR FURTHER ACTION
See paragraph 2 below	
International application No.	International filing date (day/month/year)
PCT/TH2018/000024	16. May. 2018 (16. 05. 2018)
Priority date (day/month/year)	
International Patent Classification (IPC) or both national classification and IPC	
G06Q 30/00 (2012. 01) i	
Applicant	
CHARANWONG Suvita	

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 43*bis*.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 66.1*bis*(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/CN	Date of completion of this opinion	Authorized officer
National Intellectual Property Administration, PRC		YANG, Jishuang
6, Xitucheng Rd., Jimen Bridge, Haidian District, Beijing 100088, China	13. Feb. 2019 (13. 02. 2019)	Telephone No. 86-(10)-53961357
Facsimile No. (86-10) 62019451		



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Box No. I Basis of the 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. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91(Rule 43bis.1(b)).
3. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing:
- a. ☐ forming part of the international application as filed:
 - ☐ in the form of an Annex C/ST.25 text file.
 - ☐ on paper or in the form of an image file.
 - b. ☐ furnished together with the international application under PCT Rule 13ter.1(a) for the purposes of international search only in the form of an Annex C/ST.25 text file.
 - c. ☐ furnished subsequent to the international filing date for the purposes of international search only:
 - ☐ in the form of an Annex C/ST.25 text file (Rule 13ter.1(a)).
 - ☐ on paper or in the form of an image file (Rule 13ter.1(b) and Administrative Instructions, Section 713).
4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that forming part of the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:



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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

1. Statement:

Novelty (N)	Claims <u>1-26</u>	YES
	Claims <u>None</u>	NO
Inventive step (IS)	Claims <u>1-26</u>	YES
	Claims <u>None</u>	NO
Industrial applicability (IA)	Claims <u>1-26</u>	YES
	Claims <u>None</u>	NO

2. Citations and explanations

D1:US2017330154A1, 16.11.2017

The opinion is based on the anticipation made on column VIII.

1. Novelty and Inventive step

D1 discloses a computer based method and system for generating suitability score for individual in relation to job with the following features (see description, paragraphs [0025]-[0044], figures 1-4): the first step 101 of the method is for the operator to input a job description (corresponding to recording job indicating job description from the said client apparatus of marketers). The operator can key in all the relevant job description functions (corresponding to one of its client apparatuses). All the information specified by the operator in step 101 is stored in the job description database 12 (corresponding to job database). The second step 102 of the method is for the operator to input data specifying a set of N individuals for whom a suitability index is to be calculated. One way of doing this would be for the user to specify data identifying a particular individual, for example by specifying a user ID of an individual on a certain one of the social media platform (corresponding to social media database). The user ID is a label for the individual's account on the social media site supported by the social medial platform. In step 103, the index calculation engine 11 requests data relating to the n-th individual specified in step 102 from respective APIs running on the social media platform(s). In step 104, the social medial platforms return to the index calculation engine 11 the profile data corresponding to the user ID. In step 105, the index calculation engine 11 extracts relevant characteristics from the profile data. In step 106, the index calculation engine 11 uses the data in the job description database 12 and the candidate database 13, to match the relevant characteristics of the individual to each of the criteria of the job description (corresponding to matching job and influencer matching in-system jobs and influencers in accordance with appointed screening). In step 107, the index calculation engine 11 calculates for each of the criteria 'a' a respective value f(a) indicating the degree to which the respective element of the profile data





obtained in step 105 matches the job criterion defined in step 101. The result is stored in the candidate database 13. In step 108, the index calculation engine 11 fetches the values $w(a)$ and $f(a)$ from the databases 12, 13 respectively, to calculate a suitability index for the individual. The suitability index is then written to the candidate database 13, and may be returned to the user interface (corresponding to representing alternatives for preferring jobs). The computer system includes a processor (corresponding to at least one unit of processing units) that is in communication with memory devices including secondary storage. The secondary storage has a processing component comprising non-transitory instructions operative by the processor to perform various operations of the method of the present disclosure.

The distinguishing features between claim 1 and D1 are that: a job is defined credit's numbers by credit exchange; gathering information assembling social media data of data representation related to the said job descriptions; making a report from information gathering performing at least one status of follower's numbers, connect-witnessed follower's numbers, reply's numbers displayed on the said client apparatus of the said marketers; transferring credits to the said influencers preferring jobs from job's database.

The distinguishing features between claim 12 and D1 are that: a credit management unit placed in the said processing unit; said client apparatuses connect to the said credit management unit; the said client apparatuses contain marketer's data representing unit displaying credit exchange alternatives, at least on part of the data of the follower's numbers, the number of the connect-witnessed follower's reply, and the reply's numbers of the connect-witnessed followers; the said client apparatuses contain a influencer's data unit connecting to at least one part of earned credit numbers' data.

Therefore, claims 1, 12 and dependent claims 2-11, 13-26 are novel in the sense of PCT Article 33(2).

The distinguishing features mentioned above are neither indicated nor obviously rendered from the prior art. Therefore, the claimed invention comprising the distinguishing features can be considered as involving an inventive step in the sense of PCT Article 33(3). Thus, dependent claims 2-11, 13-26 involve an inventive step in the sense of PCT Article 33(3).

2. Industrial applicability

The inventions of claims 1-26 can find industrial applicability in the technical field of computer engineering, and thus meet the requirements of PCT Article 33(4).



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Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claim supported by the description, are made:

Claim 12 does not satisfy the requirement of PCT Article 6.

Claim 12 ends with a word 'and', therefore it does not satisfy the requirement of PCT Article 6. It is anticipated to end with ' . '.

