Title: METHODS, CIRCUITS, SYSTEMS, SOFTWARE APPLICATIONS, AND ASSOCIATED COMPUTER EXECUTABLE CODE FOR CHECKING AN IMPLIED OR DECLARED AGE AND/OR GENDER OF A PARTY ATTEMPTING TO ACCESS A DIGITAL RESOURCE SUCH AS ONLINE CONTENT OR A DIGITAL COMMUNICATION SESSION WITH ANOTHER PARTY THROUGH THE USE OF A COMPUTING DEVICE

Abstract: Disclosed are methods, systems, applications, and associated computer executable code for checking a declared or implied age and/or gender of a declaring party attempting to access a digital resource such as online content or a digital communication session with another party through the use of a computing device. According to embodiments self-executing code may be sent to a computing device of the declaring party and the code may access user I/O circuits of the computing device. The self-executing code may use the accessed I/O circuits to challenge and collect an audible response from the declaring party. Signal analytics techniques and algorithms may be used to assess a validity of the declaration.
### INTERNATIONAL SEARCH REPORT

**A. CLASSIFICATION OF SUBJECT MATTER**

<table>
<thead>
<tr>
<th>IPC/B(8)</th>
<th>G10L1 3/00 (2014.01)</th>
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<td>USPC</td>
<td>704/246</td>
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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)

<table>
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<tr>
<th>IPC/B(8)</th>
<th>G10L 13/00; G06F 15/00; 15/16 (2014.01)</th>
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<tr>
<td>USPC</td>
<td>704/246, 259; 709/227, 229</td>
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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<tr>
<th>CPC</th>
<th>G10L - 1450, 229</th>
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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Google, Orbit, Google Patents

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
</tr>
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<tr>
<td>X</td>
<td>US 2010/01 151 14 A1 (HEADLEY) 06 May 2010 (06.05.2010) entire document</td>
<td>1-8</td>
</tr>
<tr>
<td>Y</td>
<td>US 5949874 (MARK) 07 September 1999 (07.09.1999) entire document</td>
<td>13,14</td>
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* 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 application or patent 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

**G** document member of the same patent family

Date of the actual completion of the international search: 18 February 2014

Date of mailing of the international search report: 10 MAR 2014

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

Authorized officer: Blaine R. Copenheaver

PCT Helpdesk: 571-272-4200

PCT OSP: 571-272-7714

Form PCT/ISA/210 (second sheet) (July 2009)
INTERNATIONAL SEARCH REPORT

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. ☐ Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

See extra sheet.

1. ☑ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.

2. ☐ As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of additional fees.

3. ☑ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☑ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-14

Remark on Protest

☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.

☒ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.

☒ No protest accompanied the payment of additional search fees.
Continuation of Box No. III:

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.

Group I, claims 1-14, drawn to a system for checking a declared or implied age or gender of a declaring party.

Group II, claims 15-18, drawn to a system for monitoring and securing a communication session comprising a monitoring application adapted to sense a risk factor of a communication signal received by a node.

The inventions listed as Groups I-II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: the special technical feature of the Group I invention: checking a declared or implied age or gender of a declaring party attempting to access a digital resource such as online content or a digital communication session with another party comprising: code adapted to access user input circuits and user output circuits render a challenge message; sample a response and convey data related to or derived from the samples to age or gender assessment logic as claimed therein is not present in the invention of Group II. The special technical feature of the Group II invention: monitoring and securing a communication session comprising a monitoring application adapted to sense a risk factor of a communication signal received by a node as claimed therein is not present in the invention of Groups I.

Groups I and II lack unity of invention because even though the inventions of these groups require the technical feature of a system comprising a computing device, this technical feature is not a special technical feature as it does not make a contribution over the prior art.

Since none of the special technical features of the Group I or II inventions are found in more than one of the inventions, unity of invention is lacking.