

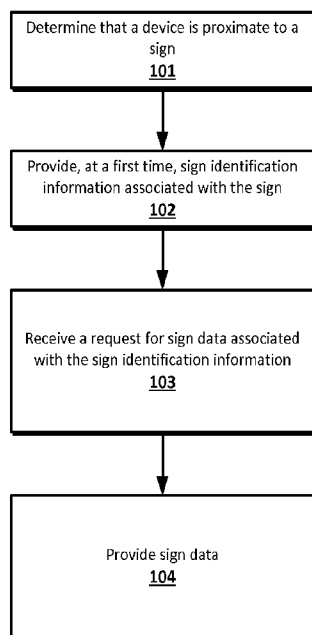


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[Continued on next page]

(54) Title: METHOD AND SYSTEM FOR PROVIDING SIGN DATA AND SIGN HISTORY

FIG. 1



(57) Abstract: Methods and systems include determining that a device is proximate to a sign, providing sign identification information associated with the sign, and providing a sign history. A request for sign data associated with the sign identification information may be received, and sign data may be provided. Determining that a sign is proximate to a device may be based on a signal from the sign and/or the device. Additionally, a location of a device may be received and it may be determined that the device is proximate to a sign based on determining a location of the sign and determining that the difference in the location of the device and the location of the sign is less than a given threshold. A request for sign data associated with the sign may be sent. In response, sign data may be received, stored, and displayed.



MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK,
SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
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INTERNATIONAL SEARCH REPORT

International application No
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A. CLASSIFICATION OF SUBJECT MATTER

INV. G06Q30/00 H04W4/02 H04L29/08
ADD.

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)

G06Q H04W H04L G09F

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 practicable, search terms used)

EPO-Internal, WPI Data, 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 2002/116268 A1 (FUKUDA KUNIO [JP]) 22 August 2002 (2002-08-22) paragraph [0016] - paragraph [0023] paragraph [0035] - paragraph [0038] paragraph [0064] - paragraph [0082] paragraph [0119] - paragraph [0123] -----	1,2,4-7, 10-14
X	US 2008/059199 A1 (HATAOKA NOBUO [JP] ET AL) 6 March 2008 (2008-03-06) paragraph [0031] - paragraph [0047] paragraph [0055] - paragraph [0062] paragraph [0075] - paragraph [0114] paragraph [0122] - paragraph [0126] paragraph [0137] - paragraph [0141] ----- -/-	1-8, 10-14, 18, 26-33, 35-39,43



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 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)

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"P" document published prior to the international filing date but later than the priority date claimed

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"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

"&" document member of the same patent family

Date of the actual completion of the international search

17 September 2014

Date of mailing of the international search report

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INTERNATIONAL SEARCH REPORT

International application No

PCT/US2014/040482

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2012/196586 A1 (GRIGG DAVID M [US] ET AL) 2 August 2012 (2012-08-02) paragraph [0003] - paragraph [0028] paragraph [0081] - paragraph [0089] paragraph [0098] - paragraph [0107] -----	1-8, 10-14, 18, 26-33, 35-39,43

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2014/040482

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 additional 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 an 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.:

1-8, 10-14, 18, 26-33, 35-39, 43

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.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-8, 10-14, 18, 26-33, 35-39, 43

Method and system for determining that a device is proximate to a sign using the locations of the sign and the device (claim 3)

2. claims: 9, 15-17, 34, 40-42

Method for providing updated sign data at a second time (claim 9)

3. claims: 19-25

Method for providing a sign history (claim 19)

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2014/040482

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2002116268 A1	22-08-2002	JP 3969050 B2	29-08-2007
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