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(54) Title: COMMUNICATING MAPPING APPLICATION DATA BETWEEN ELECTRONIC DEVICES

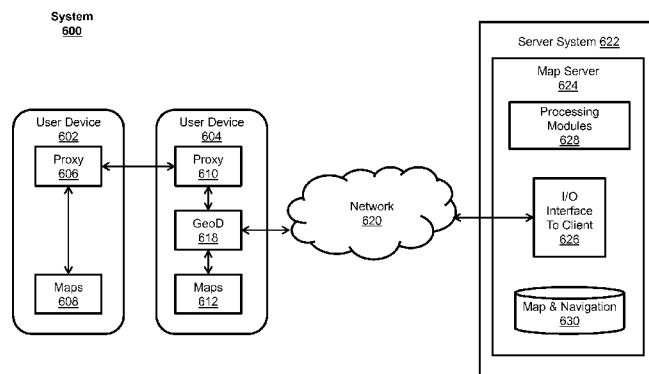


FIG. 6

(57) Abstract: The present disclosure relates to systems and processes for efficiently communicating mapping application data between electronic devices. In one example, a first electronic device can act as a proxy between a second electronic device and a map server by receiving a first request for map data from the second user device, determining a set of supplemental data to add to the first request to generate a complete second request for map data, and transmitting the second request to a map server. The first electronic device can receive the requested map data from the map server and transmit the received map data to the second electronic device. In another example, the first electronic device can act as a navigation server for the second electronic device by initially transmitting a full set of route data to the second electronic device and subsequently transmitting route update messages to the second electronic device.

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INTERNATIONAL SEARCH REPORT

International application No
PCT/US2015/047993

A. CLASSIFICATION OF SUBJECT MATTER
INV. G06F17/30
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)
G06F

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, COMPENDEX, 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 2002/165955 A1 (JOHNSON JEFFREY V [US] ET AL) 7 November 2002 (2002-11-07) figures 6,7 claims 1,12 paragraph [0080] - paragraph [0084] -----	1-18
X	US 8 201 082 B1 (NORDSTROM PAUL [US] ET AL) 12 June 2012 (2012-06-12) claims 18,25 -----	1-18

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)
- "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
- "&" document member of the same patent family

Date of the actual completion of the international search

17 December 2015

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15/03/2016

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2015/047993

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.:

1-18

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.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2015/047993

Patent document cited in search report	Publication date	Patent family member(s)	Publication date	
US 2002165955	A1	07-11-2002	US 2002165955 A1	07-11-2002
			US 2006015614 A1	19-01-2006
			US 2006136586 A1	22-06-2006

US 8201082	B1	12-06-2012	NONE	

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

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

1. claims: 1-18

method, system and storage device for amending map data requests by an intermediate device prior to submission to the map data server.

2. claims: 19-36

method, system and storage device for a navigation system that updates routing when device position is changed.
