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H04N 21/414 (2011.01)

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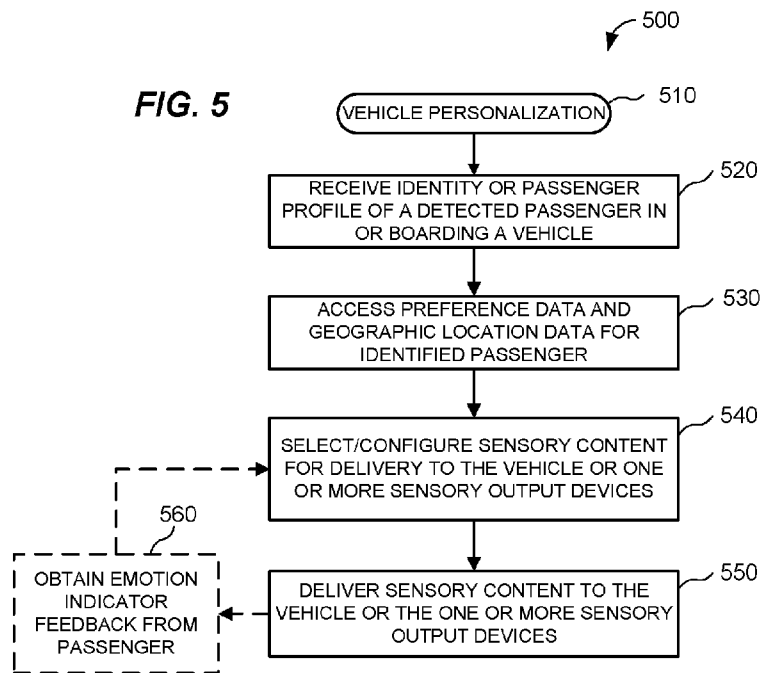
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(54) **Title:** TRIP-CONFIGURABLE CONTENT

FIG. 5



(57) **Abstract:** Methods and apparatus for personalizing a vehicle with a sensory output device include receiving, by one or more processors, a signal indicating an identity or passenger profile of a detected passenger in or boarding the vehicle, accessing preference data and geographic location data for the passenger, and selecting sensory content for delivery to the passenger in the vehicle based on the preference data and geographic location data. Methods and apparatus for producing video customized for a preference profile of a person or cohort include associating each of stored video clips with a set of characteristic parameters relating to user-perceivable characteristics, receiving user profile data relating to the person or cohort, selecting video clips from the data structure based at least partly on the user profile data, and automatically producing a video including the preferred video clips.



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(81) **Designated States** (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

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Published:

- with international search report (Art. 21(3))
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(88) **Date of publication of the international search report:**
16 July 2020 (16.07.2020)

A. CLASSIFICATION OF SUBJECT MATTER**G06Q 50/10(2012.01)i, H04N 21/414(2011.01)i, H04N 21/45(2011.01)i**

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 50/10; B60W 30/00; G02B 27/01; G06F 3/01; G06Q 50/30; G06T 13/40; H04N 21/414; H04N 21/45

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: automatic driving, vehicle, preference, contents, recommendation, passenger, information

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	KR 10-1654256 B1 (SK TELECOM CO., LTD.) 09 September 2016 See paragraphs [0003], [0007], [0024], [0048]; and claims 3, 9.	1-2, 7-8, 13-14 , 19-20
Y		3, 6, 9-12, 15, 18 , 21-24
A		4-5, 16-17
Y	KR 10-2013-0047915 A (HONG, KI SEOP) 09 May 2013 See claim 1.	3, 15
Y	KR 10-1765151 B1 (SAMSUNG C&T CORPORATION) 04 August 2017 See paragraph [0038].	6, 18
Y	US 9272708 B2 (FORD GLOBAL TECHNOLOGIES, LLC.) 01 March 2016 See column 2, lines 49-52; and figures 2A-2B.	9-10, 21-22
Y	KR 10-1894573 B1 (PARK, HONG SIK) 04 September 2018 See paragraph [0040].	11-12, 23-24

 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

"D" document cited by the applicant in the international application

"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

09 June 2020 (09.06.2020)

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Name and mailing address of the ISA/KR

International Application Division

Korean Intellectual Property Office

189 Cheongsa-ro, Seo-gu, Daejeon, 35208, Republic of Korea

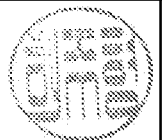


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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

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:

Group 1, Claims 1-24 related to a computer-implemented method or an apparatus for selecting sensory content based on preference data for a passenger and delivering the sensory content to a vehicle.

Group 2, Claims 25-45 related to a computer-implemented method or an apparatus for automatically producing a video including preferred video clips.

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 any 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.: 1-24

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/US2019/065095

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
KR 10-1654256 B1	09/09/2016	KR 10-2014-0004283 A KR 10-2014-0015656 A WO 2013-191334 A1	13/01/2014 07/02/2014 27/12/2013
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KR 10-1894573 B1	04/09/2018	None	