



(51) International Patent Classification:

A63F 13/215 (2014.01) A63F 13/655 (2014.01)
A63F 13/213 (2014.01)

(21) International Application Number:

PCT/US2023/010129

(22) International Filing Date:

04 January 2023 (04.01.2023)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/296,363 04 January 2022 (04.01.2022) US
18/092,728 03 January 2023 (03.01.2023) US

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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, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, 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, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE,

(54) Title: FACIAL ACTIVITY DETECTION FOR VIRTUAL REALITY SYSTEMS AND METHODS

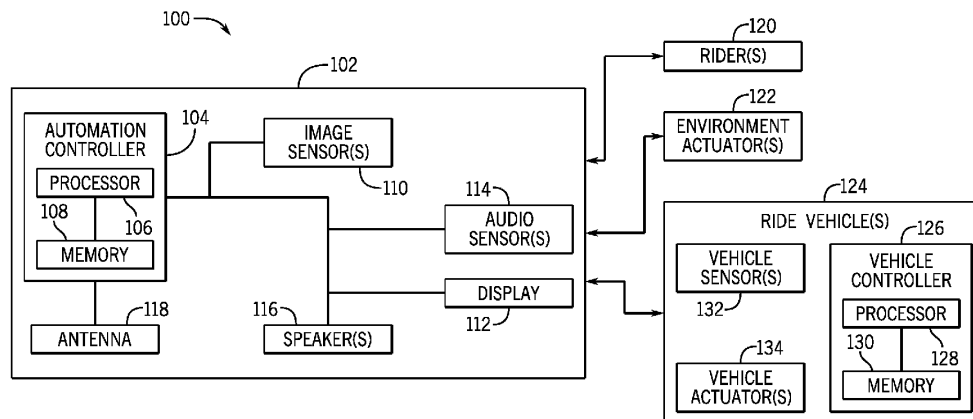


FIG. 1

(57) Abstract: In an embodiment, a virtual reality ride system includes a display to present virtual reality image content to a first rider, an audio sensor to capture audio data associated with a second rider, and an image sensor to capture image data associated with the second rider. The virtual reality ride system also includes at least one processor communicatively coupled to the display and configured to (i) receive the audio data, the image data, or both, (ii) generate a virtual avatar corresponding to the second rider, wherein the virtual avatar includes a set of facial features, (iii) update the set of facial features based on the audio data, the image data, or both, and (iv) instruct the display to present the virtual reality image content including the virtual avatar and the updated set of facial features.

[Continued on next page]

DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU,
LV, MC, ME, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI,
SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Published:

— with international search report (Art. 21(3))