



(51) International Patent Classification:
G06F 9/45 (2006.01)

(21) International Application Number:

PCT/CN2013/085928

(22) International Filing Date:

25 October 2013 (25.10.2013)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

201310031075.1 28 January 2013 (28.01.2013) CN

(71) Applicant: **TENCENT TECHNOLOGY (SHENZHEN) COMPANY LIMITED** [CN/CN]; Room 403, East Block 2, SEG Park, Zhenxing Road, Futian District, Shenzhen, Guangdong 518044 (CN).

(72) Inventors: **LIU, Xiao**; Room 403, East Block 2, SEG Park, Zhenxing Road, Futian District, Shenzhen, Guangdong 518044 (CN). **LIU, Hailong**; Room 403, East Block 2, SEG Park, Zhenxing Road, Futian District, Shenzhen,

Guangdong 518044 (CN). **CHEN, Bo**; Room 403, East Block 2, SEG Park, Zhenxing Road, Futian District, Shenzhen, Guangdong 518044 (CN).

(74) Agent: **ADVANCE CHINA I.P.LAW OFFICE**; Suite 918-920, Dongshan Plaza, No.69 Xianlie Central Road, Guangzhou City, Guangdong 510095 (CN).

(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, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, 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.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH,

[Continued on next page]

(54) Title: REALIZATION METHOD AND DEVICE FOR TWO-DIMENSIONAL CODE AUGMENTED REALITY

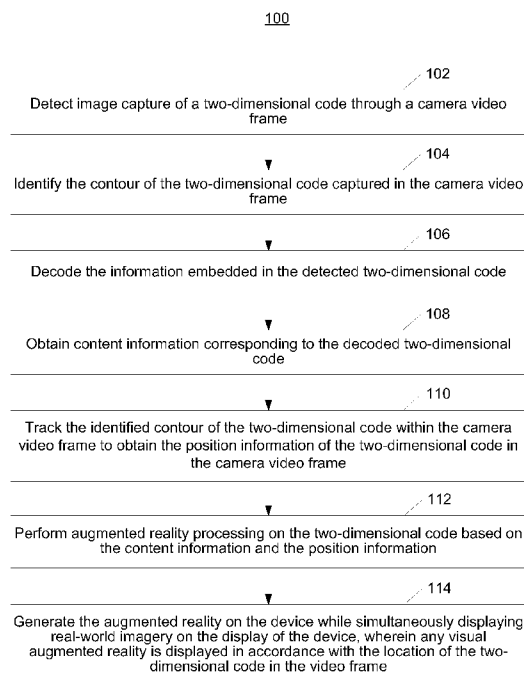


Fig. 1

(57) Abstract: A computer-implemented method for two-dimensional code augmented reality includes: detecting an image capture of a two-dimensional code through a camera video frame; identifying the contour of the two-dimensional code captured in the camera video frame; decoding the information embedded in the detected two-dimensional code; obtaining content information corresponding to the decoded two-dimensional code; tracking the identified contour of the two-dimensional code within the camera video frame to obtain the position information of the two-dimensional code in the camera video frame; performing augmented reality processing on the two-dimensional code based on the content information and the position information; and generating the augmented reality on the device while simultaneously displaying real-world imagery on the display of the device, wherein any visual augmented reality is displayed in accordance with the location of the two-dimensional code in the video frame.



GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ,
UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ,
TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK,
EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU,
LV, MC, 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))*