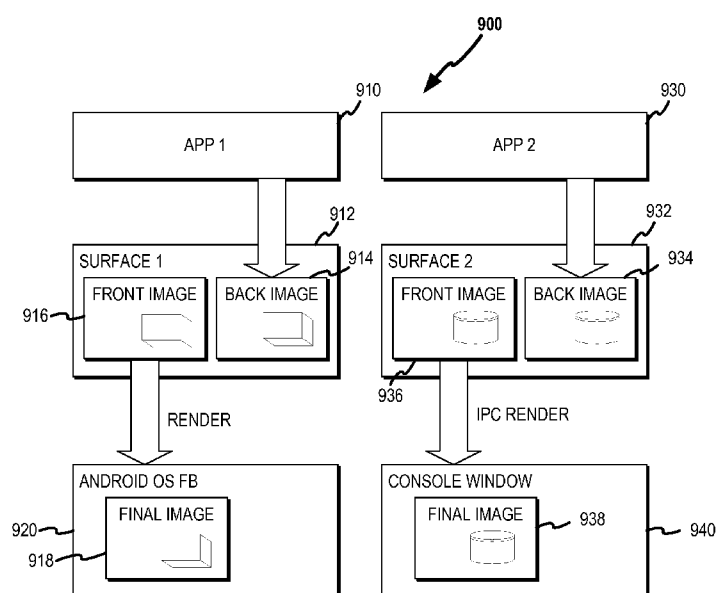




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- (74) **Agent:** **MARSH FISCHMANN & BREYFOGLE LLP**; Robert G. Crouch, 8055 E. Tufts Avenue, Suite 450, Denver, Colorado 80237 (US).
- (81) **Designated States** (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, 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, IS, JP, KE, KG, KM, 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, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, 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, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, 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, ML, MR, NE, SN, TD, TG).
- Published:**
— with international search report (Art. 21(3))

[Continued on next page]

(54) **Title:** INSTANT REMOTE RENDERING**FIG. 9**

(57) **Abstract:** A mobile computing device with a mobile operating system and desktop operating system running concurrently and independently on a shared kernel without virtualization. The mobile operating system provides a user experience for the mobile computing device that suits the mobile environment. The desktop operating system provides a full desktop user experience when the mobile computing device is docked to a second user environment. Cross-environment rendering and user interaction support provide a seamless computing experience in a multi-operating system computing environment. Real-time or instant display of an application running in the mobile operating system within an environment of the desktop operating system is provided by rendering application graphics for the application within the desktop operating system. A console application of the desktop operating system may access surface information for the application from shared memory and render the application within a console window of the computing environment associated with the desktop operating system. The mobile computing device may be a smartphone running the Android mobile operating system and a full desktop Linux distribution on a modified Android kernel.



— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

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A. CLASSIFICATION OF SUBJECT MATTER**G06F 9/22(2006.01)i, G06F 9/44(2006.01)i, G06F 3/14(2006.01)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)

G06F 9/22; G06F 12/06; G06F 3/14; G06F 9/06; B60W 40/00; G06F 15/177; G09G 5/00; H04W 8/24; H04B 1/40; G06F 3/01

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: multiple operating system, console application, shared memory, sharing application, remote rendering.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 05673403A A (BROWN, M.W. et al.) 30 September 1997 See abstract, column 4 line 55 - column 8 line 9, figures 3-5C, and claim 6.	1-18
A	US 7069519 B1 (OKIDE, M. et al.) 27 June 2006 See abstract, column 8 line 15 - line 55, and figures 8A-8E.	1-18
A	US 2010-0251233 A1 (MAJEWSKI, J.S. et al.) 30 September 2010 See figures 2-4 and claims 9-10.	1-18
A	US 2006-0010314 A1 (XU, Y.) 12 January 2006 See abstract and paragraphs [0002],[0030].	1-18
A	KR 10-2006-0081997 A (WIDERTHAN CO., LTD.) 14 July 2006 See abstract and all claims.	1-18
A	US 05764984A A (LOUCKS, L.K.) 09 June 1998 See abstract and claim 1.	1-18



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

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"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

27 APRIL 2012 (27.04.2012)

Date of mailing of the international search report

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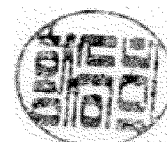
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