



- (51) **International Patent Classification:**
G06F 3/048 (2006.01) G06F 9/44 (2006.01)
G06F 3/14 (2006.01)
- (21) **International Application Number:**
PCT/US2011/065701
- (22) **International Filing Date:**
19 December 2011 (19.12.2011)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
12/972,611 20 December 2010 (20.12.2010) US
- (71) **Applicant (for all designated States except US):** MICROSOFT CORPORATION [US/US]; One Microsoft Way, Redmond, Washington 98052-6399 (US).
- (72) **Inventors:** MATTHEWS, David; c/o Microsoft Corporation, LCA - International Patents, One Microsoft Way, Redmond, Washington 98052-6399 (US). WORLEY, Matthew; c/o Microsoft Corporation, LCA - International Patents, One Microsoft Way, Redmond, Washington 98052-6399 (US). SUNDELIN, Nils; c/o Microsoft Corporation, LCA - International Patents, One Microsoft Way, Redmond, Washington 98052-6399 (US). WONG, Tsz Yan; c/o Microsoft Corporation, LCA - International Patents, One Microsoft Way, Redmond, Washington 98052-6399 (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).

Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

Published:

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

[Continued on next page]

(54) **Title:** CUSTOMIZATION OF AN IMMERSIVE ENVIRONMENT

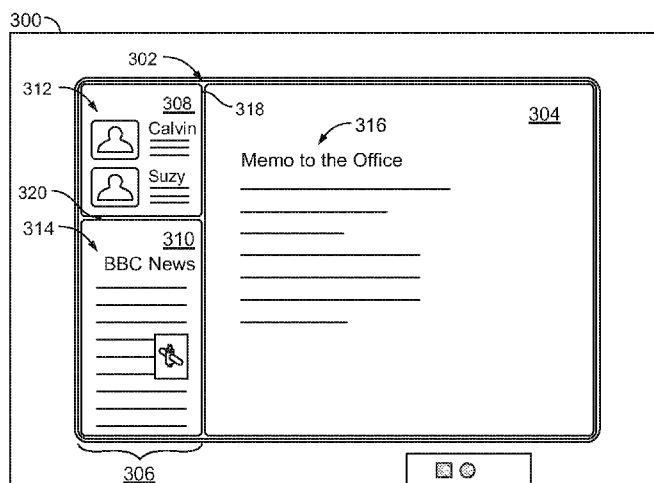


FIG. 2

(57) **Abstract:** A computing device includes an immersive environment module for facilitating simultaneous display of a plurality of applications on a display device without relying on system chrome. At least a first of the applications is displayed in a primary region of the display. The computing device also includes a UI management component for enabling a user selection of an application for simultaneous display on the display device with at least one other application. Processing logic is configured to determine a size in at least one direction of content of a user-selected application as it is displayed on a non-primary region of the display device simultaneous with display of content of the first application on the primary region of the display device. The determination is based at least in part on one or more pre-defined size requirements specified by the selected application.

WO 2012/087847 A3



— *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))*

(88) Date of publication of the international search report:
18 October 2012

A. CLASSIFICATION OF SUBJECT MATTER**G06F 3/048(2006.01)i, G06F 3/14(2006.01)i, G06F 9/44(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 3/048; H04N 5/45; G06F 3/00; G06F 3/16

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: , ,

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2009-0210795 A1 (KATSURANIS RONALD M.) 20 August 2009 See paragraphs [0006],[0007],[0009],[0034],[0068],[0069], claims 1-3, and figure 5.	1-10
A	US 2005-0108655 A1 (PETER ANDREA et al.) 19 May 2005 See paragraphs [0005],[0007]-[0009], and claims 1-4.	1-10
A	US 2009-0059073 A1 (CHO CHEON-YONG et al.) 05 March 2009 See paragraphs [0005]-[0007],[0010],[0012],[0013], claims 1-3, and figures 4A, 4B.	1-10
A	US 2007-0226647 A1 (Louch) 27 September 2007 See paragraphs [0007], claim 1, and figure 4	1-10

 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 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

22 AUGUST 2012 (22.08.2012)

Date of mailing of the international search report

24 AUGUST 2012 (24.08.2012)

Name and mailing address of the ISA/KR

Korean Intellectual Property Office
189 Cheongsu-ro, Seo-gu, Daejeon Metropolitan
City, 302-701, Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

KANG, Heum Jeng

Telephone No. 82-42-481-5776



INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2011/065701

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2009-0210795 A1	20.08.2009	US 2005-0021336 A1	27.01.2005
		US 2008-0256483 A1	16.10.2008
		US 2011-0138287 A1	09.06.2011
		US 7461352 B2	02.12.2008
		US 7908565 B2	15.03.2011
US 2005-0108655 A1	19.05.2005	EP 1690187 A2	16.08.2006
		EP 1690187 A4	29.04.2009
		JP 2007-511851 A	10.05.2007
		JP 2007-511851 T	10.05.2007
		JP 2007-511851 T	10.05.2007
		US 7370284 B2	06.05.2008
		WO 2005-050393 A2	02.06.2005
		WO 2005-050393 A3	11.05.2006
		WO 2005-050393 A3	02.06.2005
US 2009-0059073 A1	05.03.2009	CN 101377920 A	04.03.2009
		EP 2031871 A2	04.03.2009
		EP 2031871 A3	26.10.2011
		KR 10-2009-0022297 A	04.03.2009
		KR20090022297A	04.03.2009