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- (71) **Applicant (for all designated States except US):** **MICROSOFT CORPORATION** [US/US]; One Microsoft Way, Redmond, Washington 98052-6399 (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, 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.

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Declarations under Rule 4.17:

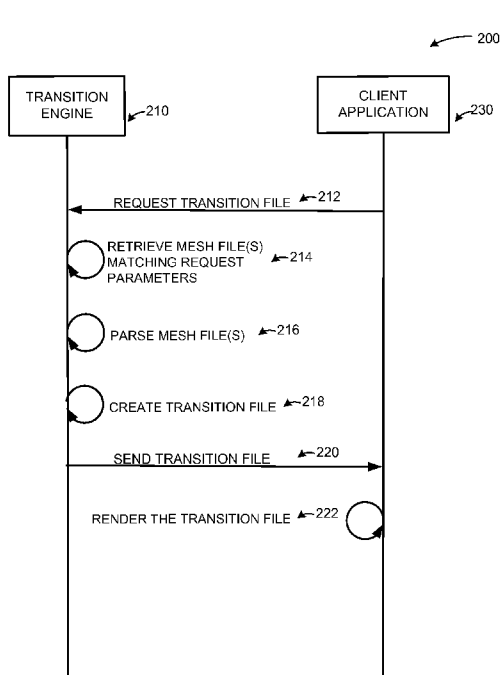
- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

Published:

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

[Continued on next page]

(54) **Title:** EMPLOYING MESH FILES TO ANIMATE TRANSITIONS IN CLIENT APPLICATIONS



(57) **Abstract:** A client application requests to animate a transition between document objects. Multi-dimensional modeling data (e.g. as mesh files) matching the transition requests are retrieved. Lighting, shading, and camera effects are applied to the mesh files. Mesh files are parsed to generate a transition file. The transition file is submitted to the client application for rendering. The client application plays the transition file and overlays document object textures over transition object polygons.



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21 March 2013

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2012/036398**A. CLASSIFICATION OF SUBJECT MATTER****G06F 17/00(2006.01)i, G06T 13/00(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)

G06F 17/00; G06F 3/048; G06T 15/70; G06T 1/00

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: document, animate, parse, transition, mesh, shade, light

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2011-0055702 A1 (JAKOBSON GABRIEL) 03 March 2011 See paragraph 21 - paragraph 22; paragraph 51 - paragraph 55; claim 1 ; figures 5-7.	1-10
A	US 2010-0118034 A1 (KIM JIN-YOUNG) 13 May 2010 See paragraph 59 - paragraph 67; claim 1 and figures 4-5.	1-10
A	US 7859538 B2 (ISNER MICHAEL et al.) 28 December 2010 See column 3, lines 56 - 62 ; column 5, lines 51 - 52 ; column 6, lines 4 - 5 ; claim 1 and figures 4-5.	1-10
A	US 6204840 B1 (PETELYCKY; IHOR et al.) 20 March 2001 See column 4, lines 4 - 18 ; column 9, line 15 - column 10, line 12; claim 1; figure 1D.	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

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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

23 NOVEMBER 2012 (23.11.2012)

Date of mailing of the international search report

26 NOVEMBER 2012 (26.11.2012)

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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