

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
15 March 2007 (15.03.2007)

PCT

(10) International Publication Number
WO 2007/030728 A1

(51) International Patent Classification:
G06T 15/00 (2006.01) **G06T 15/50** (2006.01)

(21) International Application Number:
PCT/US2006/035080

(22) International Filing Date:
6 September 2006 (06.09.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/715,916 9 September 2005 (09.09.2005) US
11/301,799 12 December 2005 (12.12.2005) US

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

(72) Inventors: **PETSCHNIGG, Georg, F.**; One Microsoft Way, Redmond, Washington 98052-6399 (US). **BAKSHI, Ashesh, P.**; One Microsoft Way, Redmond, Washington 98052-6399 (US). **BERGER, Damien, N.**; One Microsoft Way, Redmond, Washington 98052-6399 (US). **KERNEK, Matthew, W.**; One Microsoft Way, Redmond, Washington 98052-6399 (US). **COY, Stephen, B.**; One Microsoft Way, Redmond, Washington 98052-6399 (US).

(74) Agent: **MICROSOFT CORPORATION**; Attn: Sharon Rydberg, LCA, International Patent Department, One Microsoft Way, 21/2029, Redmond, WA 98052-6399 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

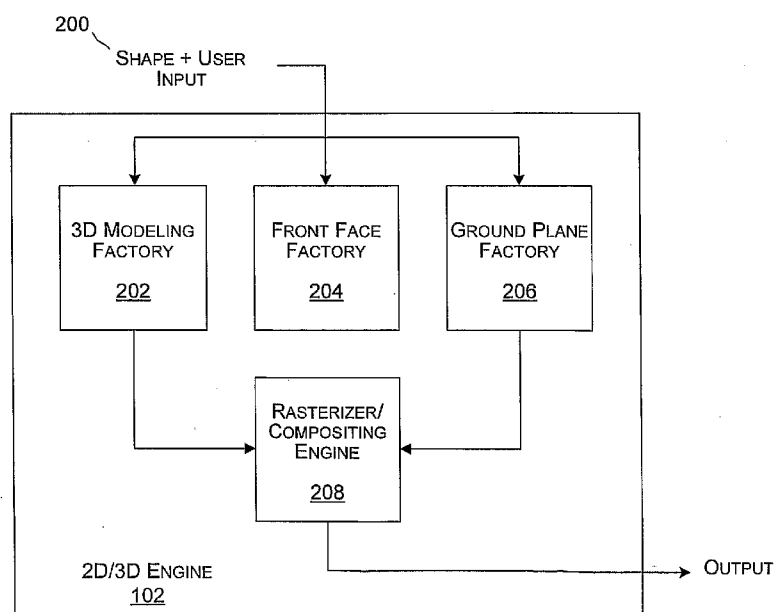
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, 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))

[Continued on next page]

(54) Title: 2D/3D COMBINED RENDERING



(57) Abstract: A system combines 2D and 3D modeling in rendering shapes and includes: a 3D modeling factory to generate a 3D model of selected shape parameters or features; a front face factory to generate 2D text and text effects, and some 2D shape effects; a ground plane factory to generate effects that are rendered on a ground plane of a shape; and a rasterizer/compositing engine to combine 2D and 3D effects generated by the front face factory, ground plan factory, and the 3D modeling factory.



- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

Published:

- *with international search report*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.