

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
1 September 2011 (01.09.2011)

(10) International Publication Number
WO 2011/106465 A3

- (51) **International Patent Classification:**
G06F 3/048 (2006.01) *G06F 3/14* (2006.01)
- (21) **International Application Number:**
PCT/US2011/025971
- (22) **International Filing Date:**
24 February 2011 (24.02.2011)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
12/713,081 25 February 2010 (25.02.2010) US
- (71) **Applicant (for all designated States except US):** MICROSOFT CORPORATION [US/US]; One Microsoft Way, Redmond, Washington 98052-6399 (US).
- (72) **Inventors:** HINCKLEY, Kenneth P.; c/o Microsoft Corporation, LCA - International Patents, One Microsoft Way, Redmond, Washington 98052-6399 (US). YATANI, Koji; 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, RO, RS, RU, 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, 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))

[Continued on next page]

(54) Title: MULTI-SCREEN PINCH-TO-POCKET GESTURE

(57) **Abstract:** Embodiments of a multi-screen pinch-to-pocket gesture are described. In various embodiments, a first motion input to a first screen region is recognized at a first screen of a multi-screen system, and the first motion input is recognized to select a displayed object. A second motion input to a second screen region is recognized at a second screen of the multi-screen system, and the second motion input is recognized to select the displayed object. A pinch to-pocket gesture can then be determined from the recognized first and second motion inputs within the respective first and second screen regions, the pinch-to-pocket gesture effective to pocket the displayed object.

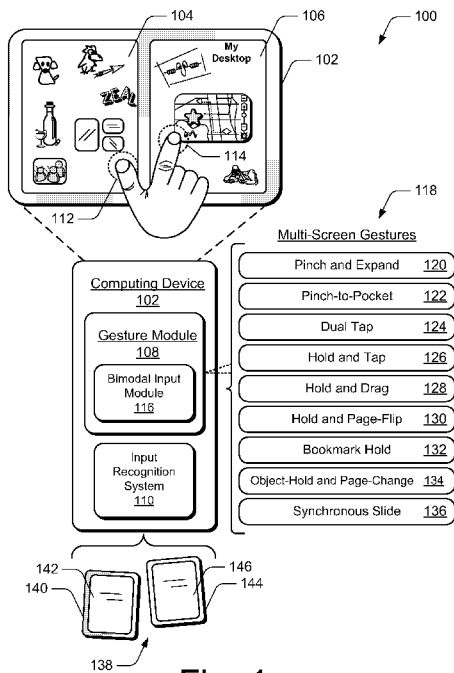


Fig. 1

WO 2011/106465 A3



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

Published:

— *with international search report (Art. 21(3))*

(88) Date of publication of the international search report:

29 December 2011

A. CLASSIFICATION OF SUBJECT MATTER**G06F 3/048(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 3/048; G06F 3/00; G06F 3/033; G06F 3/041

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: "multi-screen, gesture, touch, pinch, pocket, zoom, and similar terms"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2010-0020025 A1 (LEMORT ALEXANDRE et al.) 28 January 2010 See summary of the invention; Figures 1,7-9,12,15; Paragraphs [0042], [0057]-[0058]	1-14
A	US 2009-0309846 A1 (TRACHTENBERG MARC et al.) 17 December 2009 See summary of the invention; Figures 3A-3E; Paragraphs [0035]-[0041]	1-14
A	US 2006-0026536 A1 (STEVE HOTELLING et al.) 02 February 2006 See summary of the invention; Figures 11A-11F, 17A-17E, 19A-19D, 21A-21D, 27A-27D; Paragraphs [0098],[0105]-[0112],[0126]	1-14
A	US 2006-0031786 A1 (W. HILLIS et al.) 09 February 2006 See summary of the invention; Figures 2,3A-3D; Paragraphs [0059]-[0065]	1-14
A	US 2009-0327975 A1 (STEDMAN ROY W.) 31 December 2009 See summary of the invention; Figures 2A-3B; Paragraphs [0018]-[0022]	1-14

 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

28 OCTOBER 2011 (28.10.2011)

Date of mailing of the international search report

31 OCTOBER 2011 (31.10.2011)

Name and mailing address of the ISA/KR

Korean Intellectual Property Office
Government Complex-Daejeon, 189 Cheongsa-ro,
Seo-gu, Daejeon 302-701, Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

JEONG, Jae Woo

Telephone No. 82-42-481-5718



INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2011/025971

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2010-0020025 A1	28.01.2010	EP 2148268 A2	27.01.2010
US 2009-0309846 A1	17.12.2009	EP 2304588 A1	06.04.2011
		WO 2009-152316 A1	17.12.2009
US 2006-0026536 A1	02.02.2006	AU 1999-24673 A1	09.08.1999
		AU 1999-24673 B2	17.04.2003
		AU 2006-280672 A1	22.02.2007
		AU 2006-291338 A1	22.03.2007
		AU 2006-291338 B2	20.01.2011
		AU 2006-295353 A1	05.04.2007
		AU 2006-295354 A1	05.04.2007
		AU 2006-295354 B2	21.10.2010
		AU 2007-283771 A1	03.04.2008
		AU 2007-283771 B2	01.10.2009
		AU 2007-283771 B8	01.10.2009
		AU 2007-283771 C1	03.06.2010
		AU 2007-286532 A1	03.04.2008
		AU 2007-286532 A8	03.04.2008
		AU 2007-286532 B2	06.08.2009
		AU 2007-286532 B8	06.08.2009
		AU 2007-286532 C1	27.05.2010
		AU 2007-289019 A1	01.05.2008
		AU 2007-289019 B2	04.02.2010
		AU 2007-292383 A1	13.03.2008
		AU 2007-292384 A1	13.03.2008
		AU 2007-292473 A1	13.03.2008
		AU 2007-292473 B2	20.05.2010
		AU 2007-342102 A1	17.07.2008
		AU 2007-342102 B2	21.04.2011
		AU 2008-100004 A4	14.02.2008
		AU 2008-100004 B4	05.06.2008
		AU 2008-100004 B4	14.02.2008
		AU 2008-100010 A4	14.02.2008
		AU 2008-100010 B4	05.06.2008
		AU 2008-100010 B4	14.02.2008
		AU 2008-100011 A4	14.02.2008
		AU 2008-100011 B4	05.06.2008
		AU 2008-100011 B4	14.02.2008
		AU 2008-201540 A1	05.06.2008
		AU 2008-201540 A8	05.06.2008
		AU 2008-201540 B2	03.09.2009
		AU 2008-203349 A1	20.11.2008
		AU 2008-203349 B2	28.07.2011
		AU 2008-204988 A1	17.07.2008
		AU 2008-204988 B2	21.04.2011
		AU 2008-271011 A1	08.01.2009
		CA 2318815 A1	29.07.1999
		CA 2318815 C	10.08.2004

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2011/025971

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
		CA 2618803 A1	22.02.2007
		CA 2618803 C	16.11.2010
		CA 2627118 A1	13.03.2008
		CA 2658177 A1	17.07.2008
		CA 2658413 A1	13.03.2008
		CA 2661856 A1	13.03.2008
		CA 2661886 A1	13.03.2008
		CA 2662134 A1	13.03.2008
		CA 2662137 A1	13.03.2008
		CA 2735309 A1	13.03.2008
		CN 101052939 A0	10.10.2007
		CN 101198925 A0	11.06.2008
		CN 101263443 A0	10.09.2008
		CN 101263448 A0	10.09.2008
		CN 101356492 A	28.01.2009
		CN 101356493 A	28.01.2009
		CN 101384977 A	11.03.2009
		CN 101384977 B	08.12.2010
		CN 101390039 A	18.03.2009
		CN 101482794 A	15.07.2009
		CN 101482795 A	15.07.2009
		CN 101529367 A	09.09.2009
		CN 101529368 A	09.09.2009
		CN 101529874 A	09.09.2009
		CN 101529878 A	09.09.2009
		CN 101535938 A	16.09.2009
		CN 101535939 A	16.09.2009
		CN 101535940 A	16.09.2009
		CN 101542424 A	23.09.2009
		CN 101558372 A	14.10.2009
		CN 101563667 A	21.10.2009
		CN 101617288 A	30.12.2009
		CN 101627359 A	13.01.2010
		CN 101627361 A	13.01.2010
		CN 101627617 A	13.01.2010
		CN 101641946 A	03.02.2010
		CN 101682585 A	24.03.2010
		CN 101727275 A	09.06.2010
		CN 101802817 A	11.08.2010
		CN 101861562 A	13.10.2010
		CN 101893992 A	24.11.2010
		EP 1058924 A1	13.12.2000
		EP 1621989 A2	01.02.2006
		EP 1621989 A3	17.05.2006
		EP 1717677 A2	02.11.2006
		EP 1717677 A3	02.01.2008
		EP 1717678 A2	02.11.2006
		EP 1717678 A3	21.01.2009
		EP 1717679 A2	02.11.2006
		EP 1717679 A3	04.02.2009

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2011/025971

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
		EP 1717680 A2	02.11.2006
		EP 1717680 A3	24.03.2010
		EP 1717681 A2	02.11.2006
		EP 1717681 A3	14.01.2009
		EP 1717682 A2	02.11.2006
		EP 1717682 A3	16.04.2008
		EP 1717683 A2	02.11.2006
		EP 1717683 A3	17.03.2010
		EP 1717684 A2	02.11.2006
		EP 1717684 A3	23.01.2008
		EP 1774427 A2	18.04.2007
		EP 1774429 A2	18.04.2007
		EP 1925613 A1	28.05.2008
		EP 1934685 A1	25.06.2008
		EP 1934686 A1	25.06.2008
		EP 1934693 A2	25.06.2008
		EP 1969453 A2	17.09.2008
		EP 2000893 A2	10.12.2008
		EP 2000893 A3	14.01.2009
		EP 2000894 A2	10.12.2008
		EP 2000894 A3	14.01.2009
		EP 2059868 A2	20.05.2009
		EP 2059868 B1	29.09.2010
		EP 2060096 A1	20.05.2009
		EP 2067094 A1	10.06.2009
		EP 2067094 B1	20.04.2011
		EP 2069895 A1	17.06.2009
		EP 2069898 A1	17.06.2009
		EP 2069899 A1	17.06.2009
		EP 2069982 A2	17.06.2009
		EP 2074500 A2	01.07.2009
		EP 2078239 A2	15.07.2009
		EP 2080087 A2	22.07.2009
		EP 2082313 A2	29.07.2009
		EP 2095214 A2	02.09.2009
		EP 2095616 A1	02.09.2009
		EP 2106652 A1	07.10.2009
		EP 2118728 A1	18.11.2009
		EP 2118729 A2	18.11.2009
		EP 2118730 A2	18.11.2009
		EP 2119199 A1	18.11.2009
		EP 2126676 A1	02.12.2009
		EP 2126678 A2	02.12.2009
		EP 2160877 A1	10.03.2010
		EP 2166438 A1	24.03.2010
		EP 2256605 A2	01.12.2010
		EP 2256606 A2	01.12.2010
		EP 2256607 A2	01.12.2010
		EP 2282275 A1	09.02.2011
		EP 2296078 A2	16.03.2011

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2011/025971

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
		EP 2336869 A1	22.06.2011
		JP 04-743919 B2	20.05.2011
		JP 04-763695 B2	17.06.2011
		JP 04-767901 B2	24.06.2011
		JP 2002-501271 A	15.01.2002
		JP 2007-184006 A	19.07.2007
		JP 2007-184007 A	19.07.2007
		JP 2007-184008 A	19.07.2007
		JP 2007-193840 A	02.08.2007
		JP 2007-213599 A	23.08.2007
		JP 2007-226820 A	06.09.2007
		JP 2007-242035 A	20.09.2007
		JP 2007-308470 A	29.11.2007
		JP 2008-508600 A	21.03.2008
		JP 2008-508601 A	21.03.2008
		JP 2009-509234 A	05.03.2009
		JP 2009-509235 A	05.03.2009
		JP 2009-509236 A	05.03.2009
		JP 2009-522697 A	11.06.2009
		JP 2010-170573 A	05.08.2010
		JP 2010-503082 A	28.01.2010
		JP 2010-503121 A	28.01.2010
		JP 2010-503124 A	28.01.2010
		JP 2010-503125 A	28.01.2010
		JP 2010-503126 A	28.01.2010
		JP 2010-503127 A	28.01.2010
		JP 2010-503332 A	28.01.2010
		JP 2010-507870 A	11.03.2010
		JP 2010-515978 A	13.05.2010
		JP 2010-515980 A	13.05.2010
		JP 2011-023004 A	03.02.2011
		JP 2011-023005 A	03.02.2011
		JP 2011-065654 A	31.03.2011
		JP 2011-146067 A	28.07.2011
		KR 10-0595911 B1	07.07.2006
		KR 10-0595912 B1	07.07.2006
		KR 10-0595915 B1	05.07.2006
		KR 10-0595917 B1	05.07.2006
		KR 10-0595920 B1	05.07.2006
		KR 10-0595922 B1	05.07.2006
		KR 10-0595924 B1	05.07.2006
		KR 10-0595925 B1	05.07.2006
		KR 10-0595926 B1	05.07.2006
		KR 10-0766627 B1	15.10.2007
		KR 10-0950120 B1	30.03.2010
		KR 10-0950831 B1	02.04.2010
		KR 10-0958490 B1	17.05.2010
		KR 10-0958491 B1	17.05.2010
		KR 10-0974986 B1	09.08.2010
		KR 10-0984596 B1	30.09.2010

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2011/025971

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
		KR 10-1001120 B1	14. 12. 2010
		KR 10-1012598 B1	15. 02. 2011
		KR 10-1019900 B1	04. 03. 2011
		KR 10-2008-0091199 A	09. 10. 2008
		KR 10-2008-0096593 A	30. 10. 2008
		KR 10-2009-0046960 A	11. 05. 2009
		KR 10-2009-0053851 A	27. 05. 2009
		KR 10-2009-0057304 A	04. 06. 2009
		KR 10-2009-0057420 A	05. 06. 2009
		KR 10-2009-0057421 A	05. 06. 2009
		KR 10-2009-0060429 A	12. 06. 2009
		KR 10-2009-0066314 A	23. 06. 2009
		KR 10-2009-0066315 A	23. 06. 2009
		KR 10-2009-0066316 A	23. 06. 2009
		KR 10-2009-0066319 A	23. 06. 2009
		KR 10-2009-0073138 A	02. 07. 2009
		KR 10-2009-0083394 A	03. 08. 2009
		KR 10-2009-0107530 A	13. 10. 2009
		KR 10-2010-0099356 A	10. 09. 2010
		KR 10-2010-0111757 A	15. 10. 2010
		KR 10-2011-0104123 A	21. 09. 2011
		KR 10-2011-0115180 A	20. 10. 2011
		TW 200844837 A	16. 11. 2008
		US 2002-015024 A1	07. 02. 2002
		US 2005-104867 A1	19. 05. 2005
		US 2006-022955 A1	02. 02. 2006
		US 6323846 B1	27. 11. 2001
		US 6888536 B2	03. 05. 2005
		US 7339580 B2	04. 03. 2008
		US 7633076 B2	15. 12. 2009
		US 7714265 B2	11. 05. 2010
		US 7728316 B2	01. 06. 2010
		US 7900156 B2	01. 03. 2011
		US 7934156 B2	26. 04. 2011
		US 7940250 B2	10. 05. 2011
		US 7941760 B2	10. 05. 2011
US 2006-0031786 A1	09. 02. 2006	EP 1889143 A2	20. 02. 2008
		EP 1913574 A2	23. 04. 2008
		EP 1952221 A2	06. 08. 2008
		US 2006-0125799 A1	15. 06. 2006
		US 2006-0274046 A1	07. 12. 2006
		US 2006-0288313 A1	21. 12. 2006
		US 2007-0046643 A1	01. 03. 2007
		US 2010-0039446 A1	18. 02. 2010
		US 2010-0117979 A1	13. 05. 2010
		US 2010-0318904 A1	16. 12. 2010
		US 2011-0022991 A1	27. 01. 2011
		US 7719523 B2	18. 05. 2010
		US 7724242 B2	25. 05. 2010

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2011/025971

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
		US 7728821 B2	01.06.2010
		US 7907124 B2	15.03.2011
		WO 2006-017695 A2	16.02.2006
		WO 2006-017695 A3	06.07.2006
		WO 2006-017695 A3	16.02.2006
		WO 2006-017695 B1	24.08.2006
		WO 2006-127466 A2	30.11.2006
		WO 2006-127466 A3	30.11.2006
		WO 2007-014082 A2	01.02.2007
		WO 2007-014082 A3	01.02.2007
		WO 2007-061839 A2	31.05.2007
		WO 2007-061839 A3	31.05.2007
US 2009-0327975 A1	31.12.2009	None	