

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
13 December 2007 (13.12.2007)

PCT

(10) International Publication Number
WO 2007/142764 A3

(51) International Patent Classification:
G06F 3/00 (2006.01) **A63F 13/00** (2006.01)

(21) International Application Number:
PCT/US2007/010639

(22) International Filing Date: 2 May 2007 (02.05.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/810,423 2 June 2006 (02.06.2006) US
11/530,807 11 September 2006 (11.09.2006) US

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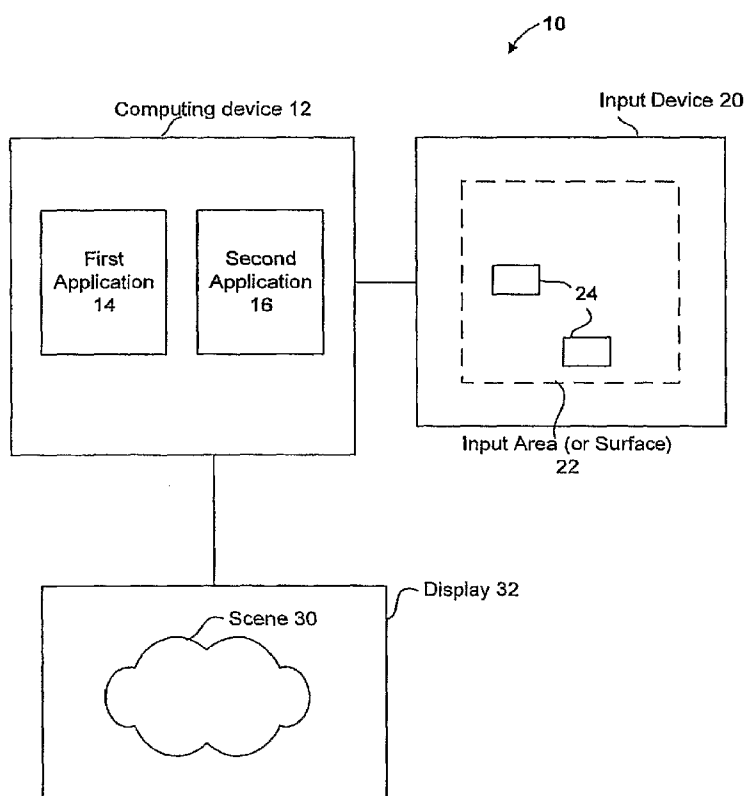
(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, 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, MT, 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).

Published:
— with international search report

[Continued on next page]

(54) Title: TECHNIQUES FOR INTERACTIVE INPUT TO PORTABLE ELECTRONIC DEVICES



(57) Abstract: Techniques for providing input to interactive and multitasking applications are disclosed. A game input area (surface or plane) receives input for multiple applications including an interactive application executed in connection with a scene. The input received is directed to the appropriate application based on one or more locations (e.g., points, positions, regions, portions) of the input area effectively identified when input is received (or entered). In addition, the manner in which input is received (or entered) can be used to determine which application should receive the input. The input area can additionally resemble or approximate the shape of a scene (e.g., game scene) to allow a person to provide input in a more intuitive way. Accordingly, input can be provided in a simple and more intuitive manner by effectively allowing the user to interact with the input area in a way that mimics or approximates a desired action (e.g., moving a ball or bat around by inputting a rotational movement). Examples of such interaction include positional, directional (e.g., rotational), press or pressure input (or movement) which can easily be provided by a thumb or a finger, for example, on a touch screen.

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— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

(88) **Date of publication of the international search report:**
21 August 2008

INTERNATIONAL SEARCH REPORT

International application No

PCT/US2007/010639

A. CLASSIFICATION OF SUBJECT MATTER

INV. G06F3/00

ADD. A63F13/00

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)

A63F G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	ACER INFORMATION CO LTD: NOTEBOOK PC MANUAL, 16 February 2005 (2005-02-16); XP002469326 Beijing page 11 - page 12	1-7, 29-33, 36-43
X	WO 2006/037545 A (NOKIA CORP [FI]; ROEYKKEE MIKA [FI]; HEINO MERJA [FI]; KORHONEN HANNU [] 13 April 2006 (2006-04-13) paragraph [0037] - paragraph [0042] paragraph [0054]	1-7, 29-33, 36-43
A	US 2005/204309 A1 (SZETO CHRISTOPHER T [US]) 15 September 2005 (2005-09-15) paragraph [0010] - paragraph [0011]	1-7, 29-33, 36-43

☐ 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 document 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 another 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.

Z document member of the same patent family

Date of the actual completion of the international search

18 February 2008

Date of mailing of the international search report

12/06/2008

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2007/010639

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers allsearchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search reportcovers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-7, 29-33, 36-43

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-7, 29-33, 36-43

Provision of input data to a plurality of applications depending on the manner in which the input is made.

2. claims: 8-24, 34-35

Input to an application using input area of particular shape.

3. claims: 25-28

Input using diectional or positional info.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2007/010639

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