



- (51) International Patent Classification:  
*G06F 9/06* (2006.01)      *G06F 9/30* (2006.01)
- (21) International Application Number:  
PCT/US2012/031202
- (22) International Filing Date:  
29 March 2012 (29.03.2012)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
13/078,868      1 April 2011 (01.04.2011)      US
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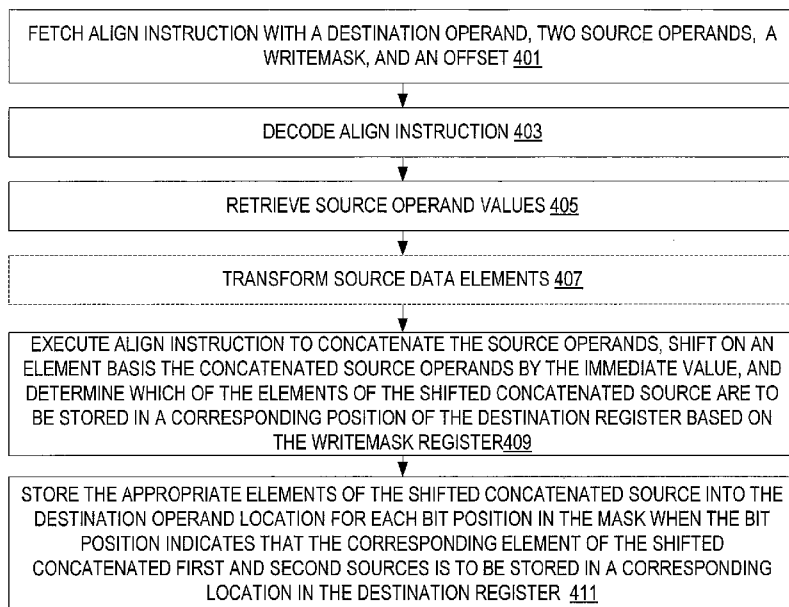
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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, 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,

[Continued on next page]

(54) Title: SYSTEM, APPARATUS, AND METHOD FOR ALIGNING REGISTERS



(57) Abstract: Embodiments of systems, apparatuses, and methods for performing an align instruction in a computer processor are described. In some embodiments, the execution of an align instruction causes the selective storage of data elements of two concatenated sources to be stored in a destination.

FIGURE 4

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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).

**Published:**

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

27 December 2012

**A. CLASSIFICATION OF SUBJECT MATTER****G06F 9/06(2006.01)i, G06F 9/30(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 9/06; G06F 15/00; G06F 7/00; G06F 7/38

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) &amp; Keywords: vector concatenate shift mask, align instruction, concatenated source;

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 7761694 B2 (ABDALLAH MOHAMMAD et al.) 20 July 2010 See column 6, lines 23-31, claim 1, and figure 1.	1-19
A	US 6223277 B1 (KARGUTH; BRIAN J.) 24 April 2001 See see column 12, lines 46-53.	1-19
A	US 2008-0065863 A1 (ALEXANDRE E. EICHENBERGER et al.) 13 March 2008 See paragraph [0027], claim 5 and figure 2.	1-19

 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

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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

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"&amp;" document member of the same patent family

Date of the actual completion of the international search

26 OCTOBER 2012 (26.10.2012)

Date of mailing of the international search report

**29 OCTOBER 2012 (29.10.2012)**

Name and mailing address of the ISA/KR

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Facsimile No. 82-42-472-7140

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**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International application No.

**PCT/US2012/031202**

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 7761694 B2	20.07.2010	CN 101097512 A CN 101097512 B CN 101097512 C0 CN 102169427 A US 2008-0215855 A1	02.01.2008 18.05.2011 02.01.2008 31.08.2011 04.09.2008
US 6223277 B1	24.04.2001	None	
US 2008-0065863 A1	13.03.2008	None	