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(71) Applicant: **INTEL CORPORATION** [US/US]; (A
Delaware Corporation), 2200 Mission College Boulevard,
Santa Clara, CA 95052 (US).

(72) Inventor: **KOSARAJI, Chakravarthy**; 1083 Rembrandt
Drive, Sunnyvale CA 94087 (US).

(74) Agents: **MALLIE, Michael, J.** et al.; Blakely, Sokoloff,
Taylor & Zafman, 7th floor, 12400 Wilshire Boulevard, Los
Angeles, CA 90025 (US).

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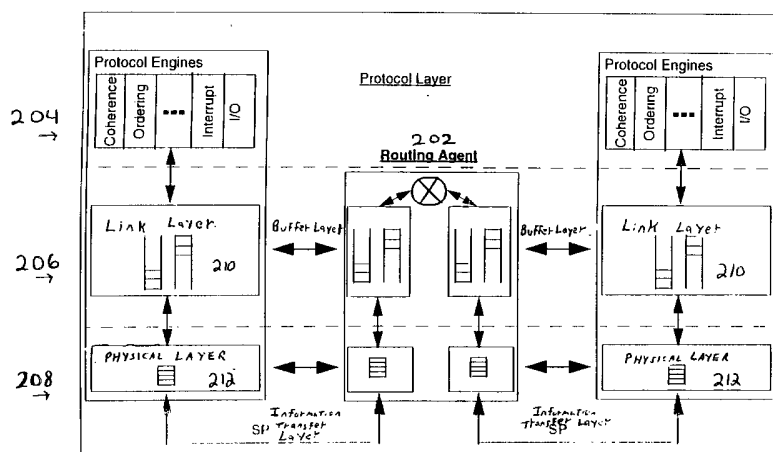
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(54) Title: A METHOD AND AN APPARATUS FOR A RE-CONFIGURABLE PROCESSOR

200



(57) Abstract: The invention generally relates to a method, apparatus, and system to change one or more communication pathways in a processor without changing a physical component layout in the processor. For example, in an embodiment, the invention generally relates to a routing agent to change one or more communication pathways in a processor without changing the physical component layout in the processor. In an embodiment, the invention generally relates to the following method. The method comprises sending a control signal to one or more components within a processor to change one or more communication pathways in the processor without changing the physical component layout in the processor. In an embodiment, the invention generally relates to a method of changing the bandwidth between a processor and a device exterior to the processor without changing the physical component layout in the processor.



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INTERNATIONAL SEARCH REPORT

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 A. CLASSIFICATION OF SUBJECT MATTER
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B. FIELDS SEARCHED

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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, INSPEC, IBM-TDB, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	US 6 151 689 A (CODDINGTON JOHN DEANE ET AL) 21 November 2000 (2000-11-21) abstract figures 1A,1B ---	1,13,22 2-12, 14-21, 23-31
X A	EP 0 373 299 A (PIXAR) 20 June 1990 (1990-06-20) abstract figure 2 ---	1,13,22 2-12, 14-21, 23-31
A	US 5 959 995 A (HELLAND PATRICK J ET AL) 28 September 1999 (1999-09-28) abstract figures 1,3,4 ---	1-31
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☒ Patent family members are listed in annex.

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Name and mailing address of the ISA

 European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

Sadoune, M-M

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>US 5 166 674 A (BROTMAN CHARLES H ET AL) 24 November 1992 (1992-11-24) abstract figure 6</p> <p>-----</p>	1-31

INTERNATIONAL SEARCH REPORT

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6151689	A	21-11-2000	US 6157967 A	05-12-2000
			US 5751955 A	12-05-1998
			US 5675579 A	07-10-1997
			US 5914953 A	22-06-1999
			US 5867501 A	02-02-1999
			US 5675807 A	07-10-1997
			US 5964835 A	12-10-1999
			US 5689689 A	18-11-1997
			US 5838894 A	17-11-1998
			US 5790776 A	04-08-1998
			US 6496940 B1	17-12-2002
			US 5751932 A	12-05-1998
EP 0373299	A	20-06-1990	AU 615084 B2	19-09-1991
			AU 3810789 A	21-06-1990
			EP 0373299 A2	20-06-1990
			JP 2173858 A	05-07-1990
US 5959995	A	28-09-1999	EP 0823165 A1	11-02-1998
			JP 11511634 T	05-10-1999
			WO 9731464 A1	28-08-1997
US 5166674	A	24-11-1992	US 5161156 A	03-11-1992
			DE 69021710 D1	21-09-1995
			DE 69021710 T2	18-04-1996
			EP 0439693 A2	07-08-1991
			JP 2576846 B2	29-01-1997
			JP 7210527 A	11-08-1995
			JP 2566681 B2	25-12-1996
			JP 4139566 A	13-05-1992