506206136 08/17/2020

### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6252876

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	<b>Execution Date</b>
MARVELL TECHNOLOGY SWEDEN AB	12/02/2011

### **RECEIVING PARTY DATA**

Name:	MARVELL INTERNATIONAL LTD.
Street Address:	CANON'S COURT
Internal Address:	22 VICTORIA STREET
City:	HAMILTON
State/Country:	BERMUDA
Postal Code:	HM 12

### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Patent Number:	7397798

### **CORRESPONDENCE DATA**

**Fax Number:** (248)641-0270

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

**Phone:** 2486411600

Email: hprovost@hdp.com

Correspondent Name: HARNESS, DICKEY & PIERCE, P.L.C.

Address Line 1: P.O. BOX 828

Address Line 4: BLOOMFIELD HILLS, MICHIGAN 48303

ATTORNEY DOCKET NUMBER:	MP4566WOUS
NAME OF SUBMITTER:	HOLLY PROVOST
SIGNATURE:	/Holly Provost/
DATE SIGNED:	08/17/2020

### **Total Attachments: 43**

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ASSET PURCHASE AGREEMENT

between

MARVELL TECHNOLOGY SWEDEN AB

as Seller

and

MARVELL INTERNATIONAL LTD.

as Purchaser

December <u>9</u>, 2011

### THIS AGREEMENT is made the 2 day of December 2011

### BETWEEN

MARVELL TECHNOLOGY SWEDEN AB, a limited liability company incorporated under the laws of the Kingdom of Sweden, under the registration number 556864-1285 (the "Seller"), formerly known as Xelerated NewCo AB; and

MARVELL INTERNATIONAL LTD., a limited liability company incorporated under the laws of Bermuda, under the registration number EC29736 and with Foreigner's Identification Number (NIE) N4131052E (the "Buyer").

### RECITALS

- A. On December \_\_\_, 2011, the Buyer purchased the shares of Seller pursuant to the Share Purchase Agreement:
- B. The Seller is the owner of certain business assets relating to the business of the Seller (the "Seller Assets");.
- C. The Seller has agreed to sell and transfer, and the Buyer has agreed to purchase, some of the Seller Assets upon the terms and conditions of this agreement.

### NOW IT IS AGREED as follows:

- AGREEMENT TO SELL AND PURCHASE
- 1.1 The Seller sells, and the Buyer purchases free from any charge, pledge, assignment, title retention, lien, trust, right of set off or other third party right, claim or encumbrance:
  - 1.1.1 with full title guarantee the following assets:
    - (a) All patents and utility models and applications (including provisional applications) and all reissues, divisions, renewals and extensions described under <a href="Schedule 1.1.1.a">Schedule 1.1.1.a</a> (hereinafter, the "Patents").

The parties acknowledge that the know-how required for the use of the Patents, together with all technology, including, all information related to, constituting or disclosing, and all tangible copies and embodiments in any media of, technology, including techniques, designs, design rules, confidential information, trade secrets, inventions (whether or not patented or patentable), discoveries, improvements, algorithms, routines, methods, software, files, databases, data compilations, technical data, works of authorship,

processes, devices, prototypes, schematics, breadboards, net lists, mask works, test methodologies, and hardware development tools are transferred jointly with the Patents.

- (b) All trade names, logos, trademarks and service marks, whether or not registered, including all rights, and trademark and service mark registrations and applications, including all marks registered in the Swedish Patent and Trademark Office and the trademark offices of other nations throughout the world, and all rights therein provided by international treaties or conventions, and all the goodwill associated therewith, as described under <u>Schedule 1.1.1.b</u> (hereinafter, the "Trademarks").
- (c) The known in-process technology (hereinafter, the "In-Process R&D").

The Seller shall give or procure to be given to the Buyer all such written information and other assistance that the Buyer may reasonably require for the effective transfer of the In-Process R&D.

(d) The list of customers included under <u>Schedule 1.1.1.d</u> (hereinafter, the "List of Customers").

The Patents, the Trademarks, the In-Process R&D and the Customer List shall be, hereinafter, jointly referred to as the Assets.

1.2 The sale and purchase of each of the Assets is interdependent and shall be completed simultaneously.

### 2. PURCHASE PRICE

### 3. WARRANTIES

- 3.1 The Buyer enters into this agreement on the basis of, and in reliance on, the following warranties (the "Warranties"):
  - (i) The Seller has good and marketable title to each Asset, and each Asset is legally and beneficially owned by the Seller. There are no encumbrances over any of the Assets and the Seller has not agreed to create any encumbrances over the Assets or any part of them, except as expressly set out in this agreement.

- (ii) The Seller is the sole legal and beneficial owner of (or applicant for) the Patents and Trademarks, free from encumbrances and all other rights exercisable by third parties, except as expressly set out in this agreement.
- (iii) The Patents and Trademarks are valid, subsisting and enforceable, and nothing has been done or not been done as a result of which any of them has ceased or might cease to be valid, subsisting or enforceable, except as expressly set out in this agreement.
- 3.2 The Seller warrants to the Buyer that each Warranty is true and accurate.
- 3.3 If at any time the Seller becomes aware that a Warranty has been breached or is untrue or has a reasonable expectation that any of those things might occur, it shall immediately:
  - 3.3.1 notify the Buyer in sufficient detail to enable the Buyer to make an accurate assessment of the situation; and
  - 3.3.2 if requested by the Buyer, use its reasonable endeavours to prevent or remedy the notified occurrence.
- 3.4 Each of the Warranties is separate and, unless expressly provided to the contrary, is not limited by reference to any other Warranty or anything in this agreement.
- 3.5 The Buyer acknowledges and agrees that at the date of this agreement it has no actual knowledge of any breach of Warranty.

### 4. SELLER'S LIABILITY

- 4.1 The Seller undertakes to indemnify and hold the Buyer harmless against all the damages (including professional fees and costs but excluding loss of profits) which may be suffered or incurred by the Buyer and which arise directly or indirectly in connection with a breach of a Warranty.
- 4.2 Any payment made in respect of a claim under this clause shall include any amount necessary to ensure that, after taxation of the payment, the Buyer is left with the same amount it would have had if the payment had not been subject to taxation.

### 5. APPORTIONMENTS AND PREPAYMENTS

- 5.1 All periodical charges and periodical outgoings related to the Assets shall be apportioned on a time basis, so that such part of the relevant charges attributable to the period ending on the date hereof shall be borne by the Seller and such part of the relevant charges attributable to the period commencing on the day immediately following the date hereof shall be borne by the Buyer.
- 5.2 Any sum due between the parties pursuant to this clause shall be paid in each within 10 calendar days of receipt:

- 5.2.1 if to the Seller, to such bank account as the Seller may notify to the Buyer; and
- 5.2.2 if to the Buyer, to such bank account as the Buyer may notify to the Seller.

### 6. VALUE ADDED TAX

- 6.1 The Purchase Price is exclusive of VAT (if any).
- 6.2 The present transfer of Assets shall be deemed as out of the scope of Swedish VAT and shall not be subject to VAT in Sweden, as the transfer shall be located for VAT at recipient's site in Bermuda.

### 7. FURTHER ASSURANCE

- 7.1 Giving full effect to the sale and purchase of the Assets in each and all of the relevant jurisdictions may require the fulfilment of local formalities such as the filing and recording of the present transfer in the relevant registries. In this sense, the parties undertake to execute and file for registration such instruments as are necessary or desirable to document and to transfer title to the Assets from Seller to Buyer in each and all of the relevant jurisdictions.
- 7.2 The Seller shall promptly execute and deliver all such documents, and do all such things, as the Buyer may from time to time require, for the purpose of giving full effect to the provisions of this agreement.

### 8. ASSIGNMENT

No party may assign any of its rights under this agreement without the prior written consent of the other party.

### 9. WHOLE AGREEMENT

This agreement, and any documents referred to in it, constitute the whole agreement between the parties and supersede any previous arrangement, understanding or agreement between them relating to the subject matter they cover.

### 10. VARIATION AND WAIVER

- 10.1 A variation of this agreement shall be in writing and signed by or on behalf of each party.
- 10.2 Any waiver of any right under this agreement is only effective if it is in writing and signed by the waiving or consenting party and it applies only in the circumstances for which it is given and shall not prevent the party who has given the waiver or consent from subsequently relying on the provision it has waived.

- 10.3 No failure to exercise or delay in exercising any right or remedy provided under this agreement or by law constitutes a waiver of such right or remedy or shall prevent any future exercise in whole or in part thereof.
- 10.4 No single or partial exercise of any right or remedy under this agreement shall preclude or restrict the further exercise of any such right or remedy.
- 10.5 Unless specifically provided otherwise, rights arising under this agreement are cumulative and do not exclude rights provided by law.

### COSTS

All costs and expenses in connection with the negotiation, preparation, execution and performance of this agreement, and any documents referred to in it, shall be borne by the party that incurred the costs.

### 12. NOTICE

- 12.1 A notice given under this agreement:
  - 12.1.1 shall be in writing in the English language (or be accompanied by a properly prepared translation into English);
  - 12.1.2 shall be sent for the attention of the person, and to the address, e-mail or fax number, given in this clause (or such other address, e-mail, fax number or person as the relevant party may notify to the other party); and
  - 12.1.3 shall be:
    - (a) delivered personally; or
    - (b) delivered by commercial courier; or
    - (c) sent by fax; or
    - (d) sent by e-mail; or
    - (e) sent by pre-paid first-class post or recorded delivery; or
    - (f) (if the notice is to be served by post outside the country from which it is sent) sent by airmail.
- 12.2 The addresses for service of notice are:

### 12.2.1 Marvell Technology Sweden AB

Address:

c/o Marvell Switzerland Sarl

Route Pallatex, 17

CH 1163 Etoy, Switzerland

For the attention of: Director

Phone number:

41-21-8210039

Fax number:

41-79-2022303

### 12.2.2 Marvell International Ltd

Address:

Canon's Court 22 Victoria Street

Hamilton HM 12, Bermuda

For the attention of: General Manager

Phone number:

(441) 296-6395

Fax number:

(441) 295-3328

### 12.3 A notice is deemed to have been received:

- 12.3.1 if delivered personally, at the time of delivery; or
- 12.3.2 if delivered by commercial courier, at the time of signature of the courier's receipt; or
- 12.3.3 if sent by fax upon receipt of a confirmation of transmission slip; or
- 12.3.4 if sent by e-mail upon receipt of confirmation of delivery; or
- 12.3.5 if sent by pre-paid first class post or recorded delivery, 48 hours from the date of posting; or
- 12.3.6 if sent by airmail, five days from the date of posting.

### 13. SEVERANCE

- 13.1 If any provision of this agreement (or part of a provision) is found by any court or administrative body of competent jurisdiction to be invalid, unenforceable or illegal, the other provisions shall remain in force.
- 13.2 If any invalid, unenforceable or illegal provision would be valid, enforceable or legal if some part of it were deleted, the provision shall apply with whatever modification is necessary to give effect to the commercial intention of the parties.

### 14. INTERPRETATION

- 14.1 Clause, schedule and paragraph headings do not affect the interpretation of this agreement.
- 14.2 A reference to a clause or a schedule is a reference to a clause of, or schedule to, this agreement and a reference to a paragraph is to a paragraph of the relevant schedule.
- 14.3 A reference to a company shall include any company, corporation or other body corporate, wherever and however incorporated.

- 14.4 Words in the singular include the plural and in the plural include the singular.
- 14.5 A reference to one gender includes a reference to the other gender.
- 14.6 A reference to a particular statute, statutory provision or subordinate legislation is a reference to it as it is in force from time to time, taking account of any amendment or re-enactment and includes any statute, statutory provision or subordinate legislation which it amends or re-enacts and subordinate legislation for the time being in force made under it provided that, as between the parties, no such amendment or re-enactment shall apply for the purposes of this agreement to the extent that it would impose any new or extended obligation, liability or restriction on, or otherwise adversely affect the rights of, any party.
- 14.7 Where the words include(s), including or in particular are used in this agreement, they are deemed to have the words "without limitation" following them.
- 14.8 Where the context permits, other and otherwise are illustrative and shall not limit the sense of the words preceding them.

### 15. COUNTERPARTS

This agreement may be executed in any number of counterparts, each of which is an original and which together have the same effect as if each party had signed the same document.

### 16. LANGUAGE

If this agreement is translated into any language other than English, the English language text shall prevail.

### 17. GOVERNING LAW AND JURISDICTION

- 17.1 This agreement and any disputes or claims arising out of or in connection with its subject matter are governed by and construed in accordance with the law of Bermuda.
- 17.2 The parties irrevocably agree that any dispute or claim that arises out of or in connection with this agreement shall be settled by the courts of the city of Hamilton, Bermuda.

This document is executed and is defined and takes effect on the date stated at the beginning of it.

MARVELL TECHNOLOGY SWEDEN AB Patrick Clement

Director

MARVELL INTERNATIONAL Ltd

Carol Feathers General Manager MARVELL TECHNOLOGY SWEDEN AB Patrick Clement Director MARVELL INTERNATIONAL Ltd Carol Feathers General Manager

### SCHEDULE 1.1.1.a

List of Patents

# SCHEDULE 1.1 $\mathcal{W}_1$ TO ASSET PURCHASE AGREEMENT

# LIST OF TRANSFERRED IP

### Registered Patents

tegion Registration Date Registration Number 2003-11-25 0100221-1	2003-12-02 0200383-8	2004-12-21 0201920-5	United States of America 2006-03-07 7,010,673	United States of America 2008-07-08 7,397,798	2009-05-27 ZL01822285.4	2009-10-07 2036267	ngdom 2009-10-07 2036267	2009-12-16 ZL200580044572.9	United States of America 2010-01-05 7644190	United States of America 2010-01-05 7644256	United States of America 2010-02-09 7661100
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PCT National Entr	y coupled token buckets/cn	China	2011-07-06 ZL200780023260.9
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### Patent Families

Patent Family Report enclosed.

# Pending Patent Applications

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2007-06-12	2010-01-18	2011-01-17	2011-01-17	2011-01-12	2010-01-18	2009-04-21	2009-04-21	2009-04-23	2009-04-21	2008-04-24	2009-05-29
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PCT National Entry	Pending	Examination Requested	INTEGRATED PACKET SWITCH/EP	European Patent	2009-05-29	09753951.4
Normai	Pending		INTEGRATED PACKET SWITCH/PCT	International Patent-PCT	2009-05-29	PCT/EP2009/056592
Normai	Pending	Published	INTEGRATED PACKET SWITCH/TW	Tawan	2009-05-27	098117841
PCT National Entry	Pending	Examination not Requested	INTEGRATED PACKET SWITCH/US	United States of America	2009-05-29	12/994,951
Provisional	Pending		INTEGRATED PACKET SWITCH/US Provisional	United States of America	2008-05-30	61/057,814
Normal	Pending	To be Abandoned	PACKET BUFFER/SE	Sweden	2010-01-18	1050043-7
Normal	Pending	Examination not Requested	PACKET BUFFER/TW	Taiwan	2011-01-17	100101672
Provisional	Pending		PACKET BUFFER/US Provisional	United States of America	2010-01-18	61/295792
Normal	Pending		PACKET BUFFERWO	International Patent-PCT	2010-12-22	PCT/EP2010/070545
PCT National Entry	Nat. Phase	Opposition Period Ended	PISC/EP	European Patent	2001-05-21	01941347.5
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13 Sep 2011

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Report created by:

Jakob.Caristrom@xelerated.com

Date:

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Patent
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### Invention Description

The Invention relates to a method and an access buffer (200) for controlling access to one or more memory device (106) based on memory write and read requests received, and to a memory controller comprising such an access buffer. The buffer comprises write FIFO queues ("Wr FIFOs") configured to store a memory address and data to be written to the address. The buffer comprises a search unit (208) configured to receive a read request comprising a memory address and an attribute, the search unit is configured to search the write FIFOs for a memory address corresponding to the address of the read request, and if a corresponding address is found, the search unit has found a hit request and is configured to retrieve the data stored in the write FIFO and to cancel the memory write request, whereby the requested data can be read without accessing the memory device.

### Note

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Inventors			The state of the s
Boden, Thomas; C	arishtim, Jakob		
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Invention Descrip	tion		
for empty slots to e	nsure that control is se overflow in the i	g is programmable pipeline accounts nessages entering the programmable nput queues or output queues of able pipeline.	
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Inventors Carlström, Jakób	and the same of th		
Invention Descrip	tion		_
a processing pipell	ne (packet rate sha dependent on the i bursts of data ent	ers regulate admittance of packets to aping and bit rate shaping). One token evel of another token bucket. This ering the processing pipeline, reducing	<b>}</b>
Note	. 44		7

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Inventors Bodén, Thomas; Ge	rell, Peter		j	
Invention Descript		AC.W		
program is divided li	nto sequences, The lotted graph, A long lences can be mo	memory of a processing pipeline. The nese sequences and their dependency gest execution path through the graph yed and NOPs can be entered to ength.	<b>'</b>	
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DRAM SCH	<b>IEDULER</b>	
	P Type Patent Earliest Priority 18 Jan 2010 PCT Publ No Numiter of Cases 5	Cases  Pond. CM DRAM SCHEDULER/CM PENM. SEDRAR CONTROLLER/SE Pond. TW DRAM SCHEDULER/TW Pond. USTRAM SCHEDULER/TW SCHEDULER/TW ROUGENIE
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In Folder Paternts Producte	in January and the state of the	
Inventors Livne, Safty: S Bengt	Sukonik, Vitaly; Werdin.	

### Invention Description

The present invention relates to a method and an access scheduler (300) for scheduling access to a memory device (106), and to a memory controller comprising such an access scheduler. The access scheduler comprises a first hierarchical level comprising; at least one bank timer (302) configured to set a mask bit for each bank of the memory device when a FIFO associated with the bank is accessed and at least one first level arbiter (304) configured to select an access request from one FIFO and to propagate eligibility information regarding the one FIFO to a next hierarchical level. The access scheduler also comprises a fourth hlerarchical level comprising a fourth level arbiter (318) configured to receive propagated eligibility information; and to select a request based on the propagated eligibility information.

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Svensson, Lars-	Nordmark, Gunnar; Olof; Westlund, Fär		
invention Desci	ription	pr.	·
proceeds to the context while red	following stage. This receiving packet data fro	s certain data while other data enables a stage to keep execution om deeper in the packet, permitting a deeper in the packet.	
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Products Investors Carlström, Jakob;	Livne, Sarig		
hlerarchy is assign	acket scheduler of 2	i traffic manager, a node in the rity of any eligible entity in its sub-tree, gh-priority packets.	
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Boden, Thomas; N	ordmark, Gunnar	<b>[</b>	}	
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Invention Descrip	ition			
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In a processing pig	eline operations ar	e pipelined over multiple stages. One		
stage commences	the execution of an	operation or completes the execution	İ	
of an operation cor	nmenced by a pre-	vious stage.	l	
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	a; Çafiström, Jakob;		
Nordmark, Gun Sukonik, Vitaly	nar; Persson, Mattias;		]
Invention Des	oription		
network, the ne least one proce to analyze and the processing	lwork processor complessing means, and an estore received packets means for processing.	unit for processing packets in a daing; communication interface, at embedded switch which is configured, to send a first part of the packet to to receive the processed first part of said to reassemble and transmit the	-
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Ericsson, Lars; Ro	os, Joachim:		
Svensson, Lars-O			l I
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Invention Descrip	ptleh		_
An interface engin	e for a nrocassino r	ipeline receives a request code from	
the processing pir	reline. The interface	engine preferabaty executes a	
Incorram selected	hy the request code	i, and sends a request to an external	
device and receive	es a response which	it sends back to the processing	
pipeline.			}
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Products			
Inventors			
Bodén, Thomas:	Holm, Peter, Roos,		
Joachim; Svenss	ion, Lars-Olof;		
Westlund, Pär	<u> تعاور و المحمولة ا</u>	والمعاون والمستخدد والمستخدم والمستح	<b>J</b> i
Invention Descr	iption		
	-		<b>-</b>
The invention is	a stage in a processing	pipeline, comprising a storage unit	
and at least one I	logic unit. A stage exect	ites operations on a block of data.	
The storage cont	ains at least one instruc	tion.	
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PATENT REEL: 053509 FRAME: 0436

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Bodén, Thomas; No	ordmark, Gunnar,		
Svensson, Lars+Olo	f; Westlund, Pär		
L		Enterprise propries and the second state of the second sec	,
Invention Descript	non		
ASS - CONTRACTOR MINISTER			<b>.</b>
A data nacket in a t	rocessing pipeline	has information reference to packet	
inosition and length.	According to the	nvention, this information reference is	
changed to reflect o	hanges of length (	or position of the packet. This enables	Í
adding or removing	headers on a pac	ket in a processing pipeline.	
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### ACCESS POINT family:

- (1) US Provisional Application No. 60/398756 filed Sept. 5, 2002
- (2) PCT Patent Application No. PCT/SE2003/001197 filed July 9, 2003, publication no. WO 2004/010288, published Jan 29, 2004
- (3) Sweden Application No. 0202276-2 filed July 19, 2002

### ASYMMETRICAL ENGINE family:

- (1) US Provisional Application No. 60/643580 filed Jan. 3, 2005
- (2) Sweden Application No. 0403128-2 filed Dec. 22, 2004

### COUPLED TOKEN BUCKETS family:

- (1) Sweden Application No. 0601389-0 filed Jun. 22, 2006
- (2) US Provisional Application No. 60/817095 filed Jun. 29, 2006

### DIRECTED GRAPH COMPILING family:

(1) PGT Patent Application No. PCT/SE2003/00199 filed Feb. 6, 2003, publication no. WO 2003/067431, published Aug. 14, 2003

### DYNAMIC DEEP INSPECTION family:

(1) PCT Patent Application No. PCT/SE2001/01133 filed May 21, 2001, publication no. WO 2002/0960043, published Nov. 28, 2002

### DYNAMIC PRIORITY SCHEDULING family:

(1) Sweden Application No. 0800949-0 filed Apr. 25, 2008

### INSTRUCTION PIPELINING family:

- (1) US Provisional Application No. 60/319941 filed Feb. 12, 2003
- (2) PCT Patent Application No. PCT/SE2004/000103 filed Jan. 27, 2004
- (3) Sweden Application No. 0300198-9 filed Jan. 28, 2003

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### INTEGRATED PACKET SWITCH family:

(1) Sweden Application No. 0801280-9 filed May 30, 2008

### LOOK ASIDE family:

- (1) PCT Patent Application No. PCT/SE2003/001196 filed July 9, 2003, publication no. WO 2004/010287, published Jan. 29, 2004
- (2) US Patent Application No. 10/521586 filed July 9, 2003
- (3) Sweden Application No. 0202277-0 filed July 19, 2002
- (4) US Provisional Application No. 60/398575 filed July 26, 2002

### PISC family:

(1) PCT Patent Application No. PCT/SE2001/01134 filed May 21, 2001, publication no. WO 2002/059767, published Aug. 1, 2002

### TUNNEL DETUNNEL MECHANISM family:

- (1) PCT Patent Application No. PCT/SE2003/00536 filed Apr. 3, 2003, publication no. WO 2003/085519, published Oct. 16, 2003
- (2) US Provisional Application No. 60/371400 filed Apr. 11, 2002

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SWE         2001-02-21         356480         Active         9           EU         2010-07         009219536         Active         9           bices         USA         2001-04-19         2,907,494         Closed         9           USA         2001-02-21         2,835,752         Closed         9           SWE         2009-09-22         Closed         9           USA         09/25/2000         76/134,524         Closed         9,38	PISC – Packel Instruction Set Computer	USA	2001-04-19	2,837,653	Active	g,	2004-05-04
ices         USA         2010-07         009219536         Active           USA         2001-04-19         2,907,494         Closed         9           USA         2001-02-21         2,835,752         Closed         9           SWE         2009-09-22         Closed         9,38           USA         09/25/2000         76/134,524         Closed         9,38	First-to-Forty	SWE	2001-02-21	356480	Active	ð	2002-06-20
USA         2001-04-19         2,907,494         Closed         9           USA         2001-02-21         2,835,752         Closed         9           SWE         2009-09-22         Closed         9,38           USA         09/25/2000         76/134.524         Closed         9,38	Wirespeed by Design	na :	2010-07	009219536	Active		2010-09-03
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SCHEDULE 1.1.1.d

List of Customers

PATENT REEL: 053509 FRAME: 0446

RECORDED: 08/17/2020