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torney Docket No. 16869A-004300US

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FORM PTO-1595 (Rev. 6-93)	10133380)6	U.S. Department of Commerce Patent and Trademark Office
To the Honorable Asst. Commissioner for	Patents. Please record th	e attached original	documents or copy thereof 5
Name of conveying party(ies):		2. Name and add	roce of receiving partyling)
Naohiko Irie		Name: Hitachi Ltd	2 5
Additional name(s) of conveying parties a	ittached? [X] Yes	Internal Address:	275
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3. Nature of conveyance:		City: Tokyo	State: Japan ZiP:
⊠ Assignment	er		
	ige of Name	Additional names	and addresses attached? ☐ Yes ☒ No
Other:			
Execution Date: January 19, 2000; January 20, 2000; March 22, 2000; and January 5			
4. Application Number(s) or Patent Number	pers.		
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A. Patent Application No(s	s): 09/410,851	В.	Patent No(s):
Addit	ional numbers attached?	Yes 🖾 No	
Name and address of party to whom c concerning document should be mailed:	orrespondence		f applications and patents involved 1
Name: Robert J. Bennett		7. Total fee (37 C	FR 3.41):\$40.00
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Robert J. Bennett Name of Person Signing	Signature Signature	acl	<u>3-23-∤¢</u> Date
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Form PTO-1595 Recordation Form Cover Sheet Patents Only Page 2

Additional name(s) of conveying party(ies):
 (Continued from Page 1)

Tony Lee Werner Chih-Jui Peng Sebastian H. Ziesler Jackie A. Freeman Sivaram Krishnan

- Additional name(s) and address(es) of receiving party(les): (Continued from Page 1)
- Additional application number(s) or patent number(s):
 (Continued from Page 1)

A. Patent Application No.(s)

B. Patent No.(s)

SF 150911 v1 SF 1080023 v1

Attorney Docket No.: 16869A004300US



ASSIGNMENT OF PATENT APPLICATION

JOINT

WHEREAS, Naohiko Irie, of 1540 Vista Club Circle, No. 302, Santa Clara, CA 95054, Tony Lee Werner, of 2200 Agnew Road, No. 211, Santa Clara, CA 95054, Chih-Jui Peng, of 1278 Oak Knoll Drive, San Jose, CA 95129, Sebastian H. Ziesler, of 5315 Joseph Lane, San Jose, CA 95118, Jackie A. Freeman, of 75 South 13th Street, San Jose, CA 95112, Sivaram Krishnan, 1723 Westbrook Avenue, Los Altos, CA 94024-5321, hereinafter referred to as "Assignors," are the inventors of the invention described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: EMULATING EXECUTION OF SMALLER FIXED-

LENGTH BRANCH/DELAY SLOT INSTRUCTIONS WITH

A SEQUENCE OF LARGER FIXED-LENGTH

INSTRUCTIONS

Date(s) of execution of Declaration:

Filing Date: October 1, 1999

Application No.: 09/410,851; and

WHEREAS, Hitachi Ltd, of Kanda Surugadai 4-chome, Tokyo, Japan, hereinafter referred to as "ASSIGNEE," is desirous of acquiring an interest in the invention and application and in any U.S. Letters Patent and Registrations which may be granted on the same;

For good and valuable consideration, receipt of which is hereby acknowledged by Assignors, Assignors have assigned, and by these presents do assign to Assignee all right, title and interest in and to the invention and application and to all foreign counterparts (including patent, utility model and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignors had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignors further agree that they will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including patent applications and instruments of transfer, and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

Assignors hereby authorize and request Townsend and Townsend and Crew LLP, Two Embarcadero Center, 8th Floor, San Francisco, CA 94111-3834, to insert herein above the application number and filing date of said application when known.

Assignment Attorney Docket No.: 16869A004300US Page 2

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

Dated: (-19-00	_	ha	Naohiko Irie	fri	
STATE OF CALIFORNIA)) ss.				
COUNTY OF	;		^		
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My Commission Expires:					

Dated: 1/11/2000	_	Ton	ny Lee Werner	
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Assignment Attorney Docket No.: 16869A004300US Page 3

Assignment Attorney Docket No.: 16869A004300US Page 4	
Dated: Jan 12, 2000	Chih-Jui Peng
STATE OF CALIFORNIA)	
COUNTY OF) ss.	<i>,</i>
to be the person whose name is subscribed to the w the same in his/her authorized capacity, and that by l behalf of which the person acted, executed the instru	wn to me (or proved to me on the basis of satisfactory evidence) ithin instrument, and acknowledged to me that he/she executed his/her righthure on the instrument the person, or the entity upon
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Assignment Attorney Docket No.: 16869A004300US		
Page 5	/7	4
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STATE OF CALIFORNIA)	ss. Solo ye	ih.
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Assignment Attorney Docket No.: 16869A004300US Page 6			
Dated: March 22, 2000	20	Jackie A. Preeman	<u> </u>
STATE OF CALIFORNIA)		•	
COUNTY OF	SS.		
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Assignment Attorney Docket No.: 16869A004300US	l e e e e e e e e e e e e e e e e e e e
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STATE OF CALIFORNIA)	SS.
COUNTY OF)	•
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	NOTARY PUBLIC
My Commission Expires:	
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CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT State of California County of Janta Clara personally appeared ☐ personally known to me ※ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their CAROL A. IWAMOTO signature(s) on the instrument the person(s), or Commission # 1232700 the entity upon behalf of which the person(s) Notary Public - California acted, executed the instrument. Santa Clara County Comm. Copies Sep 17, 2003 WITNESS my hand and official seal. ment bears Carol a. Livamoto einkissman Pkine Notary Seal Above

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Signer's Name: 510 aram Kruhn

Corporate Officer — Title(s):

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[] Trustee [] Guardian or Conservator

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Subscribed to the within instrument and acknowledged to me that helsbethey executed the same in his/ber/their authorized capacity(iee), and that by his/her/their signature(e) on the instrument the person(e), on the entity upon behalf of which the person(e) acted, executed the instrument. WITNESS my hand and official seal. Signature of Notary Public OPTIONAL Though the information below is not required by law, it may prove valueble to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document. Description of Attached Document Title or Type of Document: Assignment of Pattert Application Document Date: Ctriber 1 1999 Number of Pages: Pages Signer's Name: With a page and that the person(e) and the entity upon behalf of which the person(e) acted, executed the instrument. WITNESS my hand and official seal. WITNESS my hand and official seal. WITNESS my hand and official seal. Place A Lurants Signature of Notary Public OPTIONAL Though the information below is not required by law, it may prove valueble to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document. Description of Attached Document Fille or Type of Document: Assignment of Pages: Pages Single Signer's Name: Thought Pages Single Signer's Name: Thought Pages Individual Corporate Officer — Title(s):	U	personally known to me proved to me on the basis of satisfactory
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CAROL A. IWAMOTO Commission # 1232700 Notary Public - Colifornia Santo Clara County My Comm. Spires Sep 17, 2003	to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.
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