07-13-2005

OMB No. 0651-0027 (exp. 8/30/2005)	U.S. DEPARTMENT OF COMMERCE
102949	100
10/22/14 PATENT	
To the Director of the U.S. Patent and Trademark Office: Please	se record the attached documents or the new address(es) below.
1. Name of conveying party(les)/Execution Date(s):	2. Name and address of receiving party(les)
PHILLIP M, SHER - Oct. 4, 2004;	Name: ANALOG DEVICES, INC.
SRIRAM KRISHNAN - Aug. 11, 2004; COLM J. PRENDERGAST Sept. 20, 2004; EDMUND J. BALBONI Sept. 29, 2004;	Internal Address:
Execution Date(s) (continued page 2)	Street Address: ONE TECHNOLOGY WAY
Additional name(s) of conveying party(les) attached? Yes No	
3. Nature of conveyance:	
Assignment Merger	City: NORWOOD
Security Agreement Change of Name	State: MASSACHUSETTS
Government Interest Assignment	Country: USA Zip: 02062
Executive Order 9424, Confirmatory License	
Other	Additional name(s) & address(es) attached? Yes Vo
4. Application or patent number(s):	document is being filed together with a new application.
A. Patent Application No.(s)	B. Patent No.(s)
Additional numbers at	ached? Yes No
5. Name and address to whom correspondence concerning document should be mailed;	6. Total number of applications and patents involved:
Name: KOPPEL, JACOBS, PATRICK & HEYBL	
Internal Address:	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00
mornal marcos.	Authorized to be charged by credit card Authorized to be charged to deposit account
Street Address: 555 ST. CHARLES DR., SUITE 107	✓ Authorized to be charged to deposit account ✓ Enclosed
OUGEL AUGUSS. 339 51. CHARLES DR., SUITE 107	None required (government interest not affecting title)
City: THOUSAND OAKS	8. Payment Information
State: CALIFORNIA Zip: 91360	a. Credit Card Last 4 Numbers
Phone Number: (805) 373-0060	Expiration Date
Fax Number: (805) 373-0051	b. Deposit Account Number 11-1680
Email Address: generalmall@koppelpatent.com	Authorized User Name Richard S. Koppel
9. Signature: Pickard & Kanal	10/21/24
Signature	Date
RICHARD S. KOPPEL	Total number of pages including cover 20

Documents to be recorded (including cover sheet) should be faxed to (703) 306-8995, or mailed to: Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1460, Alexandria, V.A. 22313-1450

PAGE 4/23 * RCVD AT 7/13/2005 1:13:27 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-2/1 * DNIS:7463140 * CSID:8053730051 * DURATION (mm-ss):05-24

REEL: 016260 FRAME: 0033

October 21, 2004
Assignment for Serial No. 10/792,115
Continued from Recordation Form Cover Sheet

1. Name of conveying parties/ Execution dates:

DANIEL E. FAGUE - Sept. 9, 2004; JEFFREY R. FEIGIN - October 19, 2004; and THOMAS J. LIPTAY - September 28, 2004

₫005

Docket No.AlWI2176US

ASSIGNMENT

We, PHILLIP M. SHER, residing at 1 Donovon Drive, Derry, New Hampshire 03038, SRIRAM KRISHNAN, residing at G-5 South Menor, Manikkath Cross Road, Ernakulam: 682016, Kerala State, India, COLM J. PRENDERGAST, residing at 42 Bigelow Street, Cambridge, Massachusetts 02139, EDMUND J. BALBONI, residing at 157 Hartwell Avenue, Littleton, Massachusetts 01460, DANIEL E. FAGUE, residing at 9 Candlewood Drive, Andover, Massachusetts 01810, JEFFREY R. FEIGIN, residing at 20 Walnut Street, Apt. 7, Woburn, Massachusetts 01801 and THOMAS J. LIPTAY, residing at 281 Harvard Street, Apt. 44, Cambridge, Massachusetts 02139 represent that we have invented improvements in a new and useful "APPARATUS AND METHOD FOR RF PACKET DETECTION AND SYMBOL TIMING RECOVERY", which is the subject of U.S. patent application Serial No. 10/792,115, filed on March 2, 2004.

ANALOG DEVICES, INC. ("ADI") is a corporation organized and existing under the laws of the State of California, has a place of business at One Technology Way, Norwood, Massachusetts 02062, and desires to acquire the entire right, title and interest in and to the invention, application and letters patent to be granted and issued thereon.

For valuable consideration, the receipt and legal sufficiency of all of which we acknowledge, we have sold and do hereby sell, assign, transfer and set over unto ADI, its successors and assigns, the entire right, title and interest in and to the invention and all improvements thereon, in and to the application for letters patents thereon, in and to applications pertaining to or based upon the invention and application, including divisional and continuing applications and continuations-in-part, and in and to any and all letters patent which may be granted and issued on the invention and applications, or any of them, in the United States of America, its territories and possessions, and in all countries foreign thereto, together with and including all priority rights based upon any and all applications in the United States of America covered by this Assignment.

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PAGE 6/23 * RCVD AT 7/13/2005 1:13:27 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-2/1 * DNIS:7463140 * CSID:8053730051 * DURATION (mm-ss):05-24

Page two

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Date: 10 OU OU	PHILLIP M: SHER
Type or print mane)	Type or print name of the Age
Date:	SRIRAM RAMAKRISHNAN
WITNESS	WITNESS
(Type or print name)	(Type or print name)
Date:	COLM J. PRENDERGAST
WITNESS	WITNESS
(Type or print name)	(Type or print name)
Date:	FOMUND J. BALBONI
WITNESS	WITNESS
(Type or print name)	(Type or print name)

PAGE 7/23 * RCVD AT 7/13/2005 1:13:27 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-2/1 * DNIS:7463140 * CSID:8053730051 * DURATION (mm-ss):05-24

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PAGE 08/23

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Page three	
Date:	DANIEL E. FAGUE
WITNESS	WITNESS
(Type or print name)	(Type or print name)
Date:	JEFFREY R. FEIGIN
WITNESS	WITNESS
(Type or print name)	(Type or print name)
Date:	THOMAS J. LIPTAY
WITNESS	WITNESS
(Type or print name)	(Type or print name)

ASSIGNMENT

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PAGE 9/23 * RCVD AT 7/13/2005 1:13:27 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-2/1 * DNIS:7463140 * CSID:8053730051 * DURATION (mm-ss):05-24

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Date:	PHILLIP M. SHER
WITNESS	WITNESS
(Type or print name)	(Type or print name)
WITNESS Juniory	SRIRAM KRISHNAN
WITNESS Lundown'	WITNESS Mankeumen
(C. VENKATAGIRI)	R-RAMKUMAR
(Type or print name)	(Type or print name)
Date:	COLM J. PRENDERGAST
WITNESS	WITNESS
(Type or print name)	(Type or print name)
Date:	EDMUND J. BALBONI
WITNESS	WITNESS
(Type or print name)	(Type or print name)

PAGE 10/23 * RCVD AT 7/13/2005 1:13:27 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-2/1 * DNIS:7463140 * CSID:8053730051 * DURATION (mm-ss):05-24

Page three,	
Date:	DANIEL E. FAGUE
WITNESS	WITNESS
(Type or print name)	(Type or print name)
Date:	JEFFREY R. FEIGIN
witness	WITNESS
(Type or print name)	(Type or print name)
Date:	THOMAS J. LIPTAY
WITNESS	WITNESS
(Type or print name)	(Type or print name)
M/D4-AlWI2176USassign.	

ASSIGNMENT

We, PHILLIP M. SHER, residing at 1 Donovon Drive, Derry, New Hampshire 03038, SRIRAM KRISHNAN, residing at G-5 South Manor, Manikkath Cross Road, Ernakulam: 682016, Kerala State, India, COLM J. PRENDERGAST, residing at 42 Bigelow Street, Cambridge, Massachusetts 02139, EDMUND J. BALBONI, residing at 157 Hartwell Avenue, Littleton, Massachusetts 01460, DANIEL E. FAGUE, residing at 9 Candlewood Drive, Andover, Massachusetts 01810, JEFFREY R. FEIGIN, residing at 20 Walnut Street, Apt. 7, Woburn, Massachusetts 01801 and THOMAS J. LIPTAY, residing at 281 Harvard Street, Apt. 44, Cambridge, Massachusetts 02139 represent that we have invented improvements in a new and useful "APPARATUS AND METHOD FOR RF PACKET DETECTION AND SYMBOL TIMING RECOVERY", which is the subject of U.S. patent application Serial No. 10/792,115, filed on March 2, 2004.

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Page two

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PAGE 12/23 * RCVD AT 7/13/2005 1:13:27 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-2/1 * DNIS:7463140 * CSID:8053730051 * DURATION (mm-ss):05-24

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Docket No.A1WI2176US the invention before competent International Authorities and in any and all countries foreign to the United States in which applications for letters patent can be so made or letters patent so obtained.

Date:	PHILLIP M. SHER
WITNESS	WITNESS
(Type or print name)	(Type or print name)
Date:	SRIRAM RAMAKRISHNAN
WITNESS	WITNESS
(Type or print name)	(Type or print name)
Date: Sept 20, 2004	COLM J. PRENDERGAST
TIGNESH SONCHHATRA	STURET PATTERSON
(Type or print name)	(Type or print name)
Date:	EDMUND J. BALBONI
WITNESS	WITNESS
(Type or print name) Page three	(Type or print name)
Date:	DANIEL E. FAGUE
WITNESS	WITNESS

PAGE 13/23 * RCVD AT 7/13/2005 1:13:27 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-2/1 * DNIS:7463140 * CSID:8053730051 * DURATION (mm-ss):05-24

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	Docket No.A1WI2176US
(Type or print name)	(Type or print name)
Date:	JEFFREY R. FEIGIN
WITNESS	WITNESS
(Type or print name)	(Type or print name)
Date: 9/28/04	THOMAS J. LIPTAY
witness Gostano Gr	WITNESS Lee
(Type or print name)	(Type or print name)

ASSIGNMENT

We, PHILLIP M. SHER, residing at 1 Donovon Drive, Derry, New Hampshire 03038, SRIRAM KRISHNAN, residing at G-5 South Manor, Manikkath Cross Road, Ernakulam: 682016, Kerala State, India, COLM J. PRENDERGAST, residing at 42 Bigelow Street, Cambridge, Massachusetts 02139, EDMUND J. BALBONI, residing at 157 Hartwell Avenue, Littleton, Massachusetts 01460, DANIEL E. FAGUE, residing at 9 Candlewood Drive, Andover, Massachusetts 01810, JEFFREY R. FEIGIN, residing at 20 Walnut Street, Apt. 7, Woburn, Massachusetts 01801 and THOMAS J. LIPTAY, residing at 281 Harvard Street, Apt. 44, Cambridge, Massachusetts 02139 represent that we have invented improvements in a new and useful "APPARATUS AND METHOD FOR RF PACKET DETECTION AND SYMBOL TIMING RECOVERY", which is the subject of U.S. patent application Serial No. 10/792,115, filed on March 2, 2004.

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Date:	PHILLIP M. SHER
WITNESS	WITNESS
(Type or print name)	(Type or print name)
Date:	SRIRAM RAMAKRISHNAN
WITNESS	WITNESS
(Type or print name)	(Type or print name)
Date:	COLM J. PRENDERGAST
WITNESS	WITNESS
(Type or print name)	(Type or print name)
Date: Sept 29,2004	EDMUND J. BALBONI
WITNESS Stephen Londrigon	WITNESS EL STradelic 2
(Type or print name)	(Type of print name)

PAGE 16/23 * RCVD AT 7/13/2005 1:13:27 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-2/1 * DNIS:7463140 * CSID:8053730051 * DURATION (mm-ss):05-24

Page three	
Date:	DANIEL E. FAGUE
WITNESS	` WITNESS
(Type or print name)	(Type or print name)
Date:	JEFFREY R. FEIGIN
WITNESS	WITNESS
(Type or print name)	(Type or print name)
Date:	THOMAS J. LIPTAY
WITNESS	WITNESS
(Type or print name)	(Type or print name)
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WITNESS	WITNESS
(Type or print name)	(Type or print name)
Date:	SRIRAM RAMAKRISHNAN
WITNESS	WITNESS
(Type or print name)	(Type or print name)
Date:	COLM J. PRENDERGAST
WIINESS	WITNESS
(Type or print name)	(Type or print name)
Date:	EDMUND J. BALBONI
WITNESS	WITNESS
(Type or print name)	(Type or print name)

PAGE 19/23 * RCVD AT 7/13/2005 1:13:27 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-2/1 * DNIS:7463140 * CSID:8053730051 * DURATION (mm-ss):05-24

M/D4 -A1WI2176USassign.

PAGE 20/23

raçe Chiee	1	
Date: 9 Sept 2004	DANIEL E. FACUE	
(Type or print name)	(Type or print name)	
Dat.e:	JEFFREY R. FEIGIN	
WITNESS	WITNESS	
(Type or print name)	(Type or print name)	
Date:	THOMAS J. LIPTAY	
WIINESS	WITNESS	
(Type or print name)	(Type or print name)	

Oct-19-2004 10:50am From-SKYWORKS

T-072 P.005/007 F-646

Docket No.AlW12176US

ASSIGNMENT

We, PHILLIP M. SHER, residing at 1 Donovon Drive, Derry, New Hampshire 03038, SRIRAM KRISHNAN, residing at G-S South Manor, Manikkath Cross Road, Ernakulam: 682016, Kerala State, India, COLM J. PRENDERGAST, residing at 42 Bigelow Street, Cambridge, Massachusetts 02:39, EDMUND J. BALBONI, residing at 157 Hartwell Avenue, Littleton, Massachusetts 01460, DANIEL E. FAGUE, residing at 9 Candlewood Drive, Andover, Massachusetts 01810, JEFFREY R. FEIGIN, residing at 300 Codman Hill Rd, #31C, Boxborough, Massachusetts 01:19 and THOMAS J. LIPTAY, residing at 281 Harvard Street, Apt. 44, Cambridge, Massachusetts 02139 represent that we have invented improvements in a new and useful "APPARATUS AND METHOD FOR RF PACKET DETECTION AND SYMBOL TIMING RECOVERY", which is the subject of U.S. patent application Serial No. 10/792,115, filed on March 2, 2004.

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T-072 P.006/007 F-646

Docket No.AlWI2176US

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witness	Witness
(Type or print name)	(Type or print name)
Date:	SRIRAM RAMAKRISHNAN
WITNESS	WITNESS
(Type or print name)	(Type or print name)
Date:	COLM J. PRENDERGAST
WITNESS	WITNESS
(Type or print name)	(Type or print name)
Date:	EDMUND J. BALBONI
WITNESS	WITNESS
(Type or print name)	(Type or print name)

PAGE 22/23 * RCVD AT 7/13/2005 1:13:27 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-2/1 * DNIS:7463140 * CSID:8053730051 * DURATION (mm-ss):05-24

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RECORDED: 10/22/2004

T-072 P.007/007 F-646

rage inree	
Date:	DANIEL E. FAGUE
WITNESS	WITNESS
(Type or print name)	(Type or print name)
Date: 10/19/04	JEFFREY R. FEIGIN
WITNESS	WITNESS
(Type or print name)	(Type or print mame)
Date:	THOMAS J. LIPTAY
WITNESS	WITNESS
(Type or print name)	(Type or print name)