		To
	07-08-1998	<u> </u>
HONORABLE COMMISSIONER OF		.s.
PATENTS AND TRADEMARKS WASHINGTON, D.C. 20231		/10 /255
SIR:	100756402 % 8	
PLEASE RECORD THE ATTACHED ORIGINAL	L DOCUMENT(S) OR COPY(IES) THEREOF.	
	100	
1. NAME OF CONVEYING PARTY(IES)	2. NAME(S) AND ADDRESS(ES) OF RECEIV	/ING PARTY(IES)
Alex Zatsman	Analog Devices. Inc. One Technology Way	
Arex Zatshian	P.O. Box 9106	
	Norwood, MA 02062-9106	
Additional name(s) of conveying party(ies) attached? No	Additional name(s) of receiving party(ies) attached	d? No
	3. NATURE OF CONVEYANCE	
X Assignment	Execution Date:	
Security Agreemen		
Merger Change of Name	June 24, 1998	
Other		
4. APPI	LICATION NUMBER(S) OR PATENT NUMBER(S)	
	cation, the execution date of the application is: June 24, 1998	
A. Patent Application No(s):	B. Patent No(s):	and the state of the
C. Issue Batch No.:		
	Additional numbers attached? No.	
5. NAME AND ADDRESS OF PARTY TO WHOM CORRESPONDENCE CONCERNING DOCUME	6. TOTAL NUMBER OF APPLICATIONS AND PATENTS INVOLVED: <u>1</u>	
SHOULD BE DIRECTED:	7. TOTAL FEE DUE: \$40.00 (Enclosed)	
Matthew E. Connors		
Samuels, Gauthier, Stevens & Reppert 225 Franklin Street, Suite 3300	If any additional fee(s) are due, the Commission charge the Deposit Order Account noted in item 8	-
Boston, Massachusetts 02110 (617) 426-9180, Extension 112	8. DEPOSIT ACCOUNT NUMBER: 19-0079	
	9. STATEMENT AND SIGNATURE	
To the best of my knowledge and belief, the forego	oing information is true and correct and any attached copy is a true copy of t	the original document.
	Takuch OShea U241	148
Patrick J. O'Shea Name of Person Signing	Signature Date	10
		less in an endow of the
nereby certify that this paper (along with any paper referre all Post Office to Addressee" Mailing Label Number EL0	ed to as being attached or enclosed) is being deposited on the date shown bel 009341395US addressed to the: Commissioner of Patents, Washington, D.C.	. 2023].
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	$-\frac{1}{2}$ Date PATENT	
	REEL: 9281 FRAME:	0613
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ASSIGNMENT

Know all men by these presents

THAT WHEREAS I, Alex Zatsman,

of Newton, Massachusetts, have made an invention for

SYNCHRONIZATION SIGNAL DETECTION AND PHASE ESTIMATION APPARATUS AND METHOD

described in an application executed by me on even date herewith and about to be filed in the United States Patent Office; and

WHEREAS Analog Devices Inc., a corporation duly organized and existing under the laws of the Commonwealth of Massachusetts and having a place of business at One Technology Way, P.O. Box 9106, Norwood, Massachusetts 02062-9106, for the benefit of itself, its successors and assigns, all inclusively hereinafter referred to as the Assignee, is desirous of acquiring the entire right, title and interest in and to the said invention, the said application, all inventions disclosed in said application and any and all Letters Patent of the United States and of all other countries which may be granted for the said invention or inventions, or any of them;

NOW, THEREFORE, for good and valuable consideration provided by said Assignee, the receipt whereof is hereby acknowledged, I do hereby sell, assign and transfer to the said Assignee the entire right, title and interest in and to the said invention, inventions and application, including all priority rights arising therefrom, all inventions disclosed in said application, and any and all Letters Patent of the United States, and of all other countries, together with the right to apply for such Letters Patent, which may be granted for the said invention, inventions or any of them.

TO HAVE, HOLD AND ENJOY the said invention, the said application, and the said Letters Patent, to said

ANALOG DEVICES, INC.

its successors and assigns, to its and their own use and behoof to the full end of the term or terms for which the said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me had this assignment and sale not been made.

AND I hereby authorize and request the Commissioner of Patents of the United States and the appropriate officers of all foreign patent offices to issue any and all Letters Patent which may be granted on the said application or applications above referred to, or for the said invention, or any of them, to the said Assignee in accordance with the terms or this instrument.

> PATENT REEL: 9281 FRAME: 0614

AND I hereby agree to execute and sign without further consideration any other legal document and any other assignments and any divisional, continuing, renewal, reissue or other application in and for all patents that may be appropriate and may be deemed necessary by the Assignee fully to secure to said Assignee its interests as aforesaid in and to the said invention or any part thereof and in and to the said patents or any of them.

AND I further covenant and agree that I will at any time upon request communicate to the said Assignee, its successors, assigns or other legal representatives, any facts known to me relating to the said invention and any patent that may be granted thereon, and will testify as to the same in any interference or litigation when requested to do so.

AND I do hereby covenant for myself and my legal representatives that I have not hitherto assigned or granted any license to make, use or sell said invention, and that I will not henceforth purport to assign, license or execute any instrument to that effect in conflict with this assignment.

LEX ZATSMAN

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PATENT REEL: 9281 FRAME: 0615

RECORDED: 06/25/1998