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Patent and Trademark Office

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PATENT OFFICE

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
John J. Kornblum, David T. Crook
10/09/01
Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies):
Name: Analog Devices, Inc.
Internal Address: _____
Street Address: One Technology Way
City: Norwood State: MA Zip: 02062

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____

Execution Date: September 28, 2001

Additional name(s) & address(es) attached? Yes No

4. Application number(s) or patent number(s):
If this document is being filed together with a new application, the execution date of the application is: September 28, 2001
A. Patent Application No.(s)
B. Patent No.(s)
Additional numbers attached? Yes No

09/973281
September 28, 2001

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: Richard S. Koppel
Internal Address: Koppel & Jacobs
Street Address: 555 St. Charles Drive, Suite 107
City: Thousand Oaks State: CA Zip: 91360

6. Total number of applications and patents involved: 1
7. Total fee (37 CFR 3.41) \$ 40.00
 Enclosed
 Authorized to be charged to deposit account.
8. Deposit account number: 11-1580
 The Commissioner is hereby authorized to charge any additional filing fees which may be required or credit any overpayment to Deposit Account No. 11-1580

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9. Statement and signature.
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document
Richard S. Koppel
Name of Person Signing Richard S. Koppel Signature 10/8/01 Date
Total number of pages including cover sheet, attachments, and document: 2

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Mail documents to be recorded with required cover sheet information to:
40.00 OF Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

1017 U.S. PTO
09/973281
10/09/01

PATENT
REEL: 012242 FRAME: 0827

ASSIGNMENT

We, John J. Kornblum, residing at 1905 Regents Park Lane, Greensboro, North Carolina 27455, and David T. Crook, residing at 7515 Somersby Drive, Summerfield, North Carolina 27358, represent that we have invented a new and useful "ADAPTIVE FEEDBACK-LOOP CONTROLLERS AND METHODS FOR RAPID SWITCHING OF OSCILLATOR FREQUENCIES" for which we have executed a provisional application for Letters Patent of the United States of America on the same day as our execution of this Assignment.

ANALOG DEVICES, INC. (ADI) is a corporation organized and existing under the laws of the State of Massachusetts, 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 patent 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.

We also agree that we will, at the request of ADI, execute any and all applications for letters patent for the invention, execute any and all other papers and documents and do all other and further lawful acts that ADI may deem necessary or desirable to obtain letters patent on the invention, to secure the grant of such letters patent and to protect and vest in ADI the undivided interests in the right, title and interest in the invention, applications and letters patent.

We also authorize and empower ADI, its successors and assigns to apply for and obtain, in its or their own names, letters patent for 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.

Signed at GREENSBORO, North Carolina, 9/28 2001

John J. Kornblum
John J. Kornblum

David T. Crook
David T. Crook

WITNESS
William R. King
William R. King

WITNESS
Sue G. Shumake
Sue G. Shumake

PATENT