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FORM PTO-1595 U.S.  
(Rev. 6-93)  
OMB No. 0651-0011 (exp. 4/94)

DEPARTMENT OF COMMERCE  
Patent and Trademark Office

To the Commissioner for Patents : Please record the attached original documents or copy thereof.

## 1. Name of conveying parties:

**Colm Patrick Ronan, John Twomey,  
Brian Anthony Moane, Liam Joseph White**

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

## 3. Nature of conveyance:

☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

Execution Date: **October 24, 2006**

## 2. Name and address of receiving party

Name: **Analog Devices, Inc.**

Internal Address: **Norwood, Massachusetts**

Street Address: **One Technology Way**

**Norwood, Massachusetts 02062**

Additional name(s) & addresses(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

A. Patent Application No.(s)

**11/589,020**

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

## 5. Name and address of party to whom correspondence Concerning document should be mailed:

Name: **Steven J. Henry**  
Address: **Wolf, Greenfield & Sacks, P.C.**  
**600 Atlantic Avenue**  
**Boston, MA 02210-2206**

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

The Commissioner is authorized to charge any deficiencies in the enclosed payment to:

8. Deposit Account No: 23/2825

DO NOT USE THIS SPACE

## 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.*

**Steven J. Henry**

Name of Person Signing

Signature

**December 13, 2006**

Date

Total number of pages including cover sheet, attachments, and document: **[ 6 ]**

Mail documents to be recorded with required cover sheet information to (modify as appropriate):

**Mail Stop Assignment Recordation Services**  
**Director - U.S. Patent and Trademark Office**  
**PO Box 1450, Alexandria, VA 22313-1450**

## ASSIGNMENT

THIS ASSIGNMENT is made BETWEEN

COLM PATRICK RONAN, an Irish citizen of 4 Castle Park, Caherconlish, County Limerick, Ireland of the First Part,

JOHN TWOMEY, an Irish citizen of Ringabella View, Coast Road, Fountainstown, County Cork, Ireland of the Second Part,

BRIAN ANTHONY MOANE, an Irish citizen of 2 The Grange, Raheen, Limerick, Ireland of the Third Part, AND

LIAM JOSEPH WHITE, an Irish citizen of Patrickswell, County Limerick, Ireland of the Fourth Part (hereinafter the First to Fourth Parts are collectively referred to as the "Inventors", which expression shall include their successors and assigns where the context so requires or admits)

AND ANALOG DEVICES, INC., a Massachusetts corporation having a place of business at One Technology Way, Norwood, Massachusetts 02062 U.S.A. (hereinafter referred to as the "Assignee", which expression shall include its successors and assigns and subsidiaries where the context so requires or admits) of the Fifth Part.

WHEREAS

(a) The Inventors have made certain inventions or discoveries (or both) set forth in an application for Letters Patent as set forth in the Schedule hereto;

(b) The Inventors are, or were at the time the invention was made, employees of the Assignee or were under contractual obligation with the Assignee, and made the said inventions and/or discoveries in the course of carrying out their duties as such employees or contractual duties;

(c) The Inventors agree that the said duties were such that the same inventions and/or discoveries might reasonably be expected to result therefrom and that in consideration of such employment or contract their interest in and to the said inventions and/or discoveries is held in trust for and is the absolute property of the Assignee or whomsoever the Assignee may nominate; and

(d) The Assignee had requested the Inventors agree to execute the ratification of assignment hereinafter contained.

NOW THIS DEED WITNESSETH that in consideration of the premises and without reservations:

1. The Inventors hereby assign, transfer and convey unto the Assignee the entire right and title and interest in and to the said inventions and/or discoveries, the said application for Letters Patent and any and all other applications for Letters Patent or otherwise on the said Inventions and/or discoveries in whatsoever countries, including all divisional, renewal, substitute, continuation applications and applications under the International (Paris) Convention, European Patent Convention, Patent Cooperation Treaty, Community Patent Convention, or otherwise, based in whole or in part upon said inventions and/or discoveries, or upon the said application, and in and to any and all Letters Patent, reissues and extensions of Letters Patent granted for said inventions and/or discoveries or upon the said application, and every priority right that is or may be predicated upon or arise from said inventions and/or discoveries, said application and Letters Patent;
2. The Inventors hereby authorize the Assignee to file and assent to the Assignee filing patent applications in any or all countries on any or all of said inventions and/or discoveries in the name of the Inventors or in the name of the Assignee or otherwise as the Assignee may deem advisable, under the terms of the International (Paris) Convention, European Patent Convention, Patent Cooperation Treaty, Community Patent Convention or otherwise;
3. The Inventors hereby authorize and request the Commissioner of Patents and Trademarks of the United States of America and the official empowered by all other governments and under the aforesaid Conventions, Treaties or otherwise, to issue or transfer all said Letters Patent to the Assignee.
4. The Inventors hereby warrant that they have not knowingly conveyed to others any right in the said inventions and/or discoveries, applications or patents or any license to use the same or to make, use or sell anything embodying or utilizing any of said inventions and/or discoveries; and that the Inventors have good right to assign the same unto the Assignee without encumbrance;
5. The Inventors hereby bind their heirs, legal representatives and assigns, as well as themselves, to do, upon the Assignee's request and at the Assignee's expense, but

without additional consideration to them or to the Assignee, all acts reasonably serving to assure that the said inventions and/or discoveries, the said patent application and the said Letters Patent shall be held and enjoyed by the Assignee as fully and entirely as the same could have been held and enjoyed by the Inventors, their heirs, legal representatives and assigns if this assignment had not been made; and particularly to execute and deliver to the Assignee all lawful application documents including petitions, specifications, oaths, powers of attorney, and all assignments, disclaimers and lawful affidavits in form and substance as may be required by the Assignee; to communicate to the Assignee all facts known to the Inventors relating to said Inventions and/or discoveries or the history thereof; and to furnish the Assignee with any and all documents, photographs, models, samples and other physical exhibits in the Inventors' control or in the control of their heirs, legal representatives or assigns which may be useful for establishing the facts of the conceptions, disclosures, and reduction to practice of said inventions and/or discoveries.

THE SCHEDULE ABOVE REFERRED TO

| Attorneys<br>File | U.S. Appln.<br>Number | Filing<br>Date | Title   |
|-------------------|-----------------------|----------------|---|
| G0631.70052US01   | 11/589,020            | 10/27/2006     | "An output stage interface circuit for outputting digital data onto a data bus, and a method for operating an output stage interface circuit" |

Permission is hereby granted to Wolf Greenfield & Sacks P.C. to enter any identifying information missing in said schedule.

IT IS HEREBY CERTIFIED that the transaction hereby effected does not form part of a larger transaction or a series of transactions in respect of which the amount or values or the aggregate amount or value of the consideration exceeds Ten thousand Euro (€10,000).

IN WITNESS WHEREOF the parties hereto have set their hand.

SIGNED by the said

COLM PATRICK RONAN

Colm Ronan

COLM PATRICK RONAN

in the presence of:

European Patent Attorney

(WITNESSES)

this 24<sup>th</sup> day of October 2006

SIGNED by the said

JOHN TWOMEY

John Twomey

JOHN TWOMEY

in the presence of:

European Patent Attorney

(WITNESSES)

this 24<sup>th</sup> day of October 2006

SIGNED by the said

BRIAN ANTHONY MOANE

Brian Moane

BRIAN ANTHONY MOANE

in the presence of:

European Patent Attorney

(WITNESSES)

this 24<sup>th</sup> day of October 2006

SIGNED by the said

LIAM JOSEPH WHITE

Liam White

LIAM JOSEPH WHITE

in the presence of:

European Patent Attorney

(WITNESSES)

this 24<sup>th</sup> day of October 2006

PATENT

REEL: 018710 FRAME: 0873

Signed for and on behalf of

ANALOG DEVICES, INC.

BY: Margaret K. Seif

Name: Margaret K. Seif

CAPACITY: Vice President  
General Counsel, Secretary

BY: \_\_\_\_\_

Name: \_\_\_\_\_

CAPACITY: \_\_\_\_\_

in the presence of:

Margaret K. Seif  
Jim Grant

(WITNESSES)

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\_\_\_\_\_

(WITNESSES)

this 30 day of Oct 2006