PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|----------------------|----------------|
| Thomas Kieran Nunan | 03/02/2004 |
| Timothy J. Brosnihan | 03/02/2004 |

RECEIVING PARTY DATA

| Name: | Analog Devices, Inc. |
|-----------------|----------------------|
| Street Address: | One Technology Way |
| City: | Norwood |
| State/Country: | MASSACHUSETTS |
| Postal Code: | 02062-9106 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 12985700 |

CORRESPONDENCE DATA

Fax Number: (617)443-0004

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 617-443-9292

Email: emiller@sunsteinlaw.com

Correspondent Name: Jonathan C. Lovely

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Address Line 2: 125 Summer Street

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2550/D31 ATTORNEY DOCKET NUMBER:

NAME OF SUBMITTER: Jonathan C. Lovely

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PATENT

Total Attachments: 3

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PATENT REEL: 025596 FRAME: 0728

ASSIGNMENT

ASSIGNOR:

Thomas Kieran Nunan

Timothy J. Brosnihan

ASSIGNEE:

Analog Devices, Inc.

One Technology Way

Norwood, MA 02062-9106

STATE OF INCORPORATION OF ASSIGNEE: Massachusetts

INVENTION:

Single Crystal Silicon Sensor With Additional Layer and Method

of Producing the Same

ATTORNEY DOCKET:

2550/193

SERIAL NO:

Not Yet Assigned

FILED:

Herewith

Assignor is the sole inventor (if only one inventor is listed above) or a joint inventor (if more than one inventor is listed above) of the above invention (the "Invention") described in a United States patent application (the "Application") bearing the above attorney docket number and having as a title the above name for the Invention. The Application has a Patent and Trademark Office filing date and serial number as indicated above, or if no filing date and serial number are shown, has a Declaration executed by Assignor contemporaneously with this Assignment.

For valuable consideration, receipt of which is acknowledged, each Assignor hereby assigns to Assignee (which term shall include Assignee's successors and assigns), all of Assignor's right, title and interest in the Invention, all improvements therein, the Application and all priority rights arising therefrom, and any patents, and any reissues and extensions thereof, which issue in any country upon any patent applications which correspond with any of the following: the Application, any divisional, continuation-in-whole, or substitute United States application which is based on the Application; or any continuation-in-part United States application (including divisions, continuations-in-whole or -in-part, and substitutions thereof or therefor) based in-part on any of the above described applications.

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Each Assignor further agrees that such Assignor and Assignor's heirs and legal representatives will, without further consideration, cooperate with Assignee in the prosecution of all of the above applications, execute, verify, acknowledge and deliver all such further papers, including applications for patents and for reissues and extensions therefor, and instruments of assignment and transfer thereof, and will communicate any facts known to Assignor relating to the Invention, to obtain or maintain or enforce patents for the Invention and improvements therein in any and all countries and to vest title thereto in Assignee. Each Assignor further agrees that such Assignor will, without further compensation to Assignor during the term of such Assignor's employment by Assignee and thereafter for reasonable compensation as determined by Assignee, perform such other acts as may be reasonably required when requested by Assignee, including attending depositions, preparing and executing declarations and affidavits and testifying as a witness, to obtain or maintain or enforce patents for the Invention and improvements therein in any and all countries and to vest title thereto in Assignee.

IN WITNESS WHEREOF, each Assignor hereby executes this instrument on the date set forth below.

| Date: 7/2/04. | Tho | nns. | Krancer | News |
|-----------------------------|--------|--------|--------------|---------|
| | Thomas | s Kier | an Nunan, As | ssignor |
| COMMONWEALTH OF MASSACHUSET | TS |) | | |
| COUNTY OF Middleger | |) ss. | | |
| COUNTY OF TOUR OFFER | | , | | |

Before me, a notary public in and for said county and state, personally appeared Thomas Kieran Nunan, to me known to be the person described in the foregoing instrument, who, being first duly sworn, acknowledged his signature on the foregoing instrument in my presence and declared the same to be his free act and deed on the date written above opposite his signature.

Notary Public

My Commission Expires:

CELESTE HOTALING-LYONS
Notary Public
Commonwealth of Massact usetts
My Commission Explir 3
June 14, 2007

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| Date: | 3/2/114 | |
|-------|---------|--|
| | | |

Timothy J. Brosnihan, Assignor

| COMMONTALITY A | TOTAL | ADDIABLE | ATTITION |
|----------------|-------|----------|----------|
| COMMONWEA | LIHUF | MASSA | CHUSELLS |

COUNTY OF Middlesex

) ss.

Before me, a notary public in and for said county and state, personally appeared Timothy J. Brosnihan, to me known to be the person described in the foregoing instrument, who, being first duly sworn, acknowledged his signature on the foregoing instrument in my presence and declared the same to be his free act and deed on the date written above opposite his signature.

Notary Public

My Commission Expires:

Notary Public
Commonwealth of Messachusetts
My Commission Explose
June 14, 2007

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RECORDED: 01/06/2011