



TO THE ASSISTANT COMMISSIONER FC

101277866

1 documents or copy thereof.

mmw
2/7/00

1. Name of conveying party(ies): (If multiple assignors, list numerically)

- 1) John A. Roscigno
- 2) Craig W. Hodgson
- 3) Donald A. Frederick
- 4) William C. Knaack

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

2. Name and address of receiving party(ies):

Name: Litton Systems, Inc.
Internal Address:
Street Address: 21240 Burbank Boulevard
City: Woodland Hills **State:** CA **ZIP:** 91366

Additional name(s) of receiving party(ies) attached?
() Yes (X) No

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OPR/FINANCE

3. Nature of conveyance:

- Assignment
- Merger
- Security Agreement
- Change of Name
- Other:

Execution Date: (If multiple assignors, list execution dates in numerical order corresponding to numbers indicated in 1 above) 1) 1/7/00 2) 1/7/00 3) 1/7/00 4) 1/7/00

4. Application number(s) or Patent number(s):

- Application(s) filed herewith Execution Date(s):
- Patent Application No.: 09/429,048
Filing Date: October 29, 1999
- Patent No.:
Issue Date:

Additional numbers attached? () Yes (X) No

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

Name: Jerry T. Sewell
KNOBBE, MARTENS, OLSON & BEAR, LLP
Customer No. 20,995
Internal Address: Sixteenth Floor
Street Address: 620 Newport Center Drive
City: Newport Beach **State:** CA **ZIP:** 92660
Attorney's Docket No.: LITTONP.016A

7. Total fee (37 CFR 3.41): \$40

- Enclosed
- Authorized to be charged to deposit account if any additional fees are required, or to credit any overpayment

8. Deposit account number: 11-1410

Please charge this account for any additional fees which may be required, or credit any overpayment to this account.

6. Total number of applications and patents involved: 1

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.

Jerry T. Sewell
Name of Person Signing

Jerry T. Sewell
Signature

JANUARY 31, 2000
Date

31,567
Registration No.

Total number of pages including cover sheet, attachments and document: 4

Mail documents to be recorded with required cover sheet information to:

02/29/2000 TTOM11 00000177 09429048

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40.00 OP

Assistant Commissioner for Patents
Box Assignments
Washington, D.C. 20231

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ASSIGNMENT

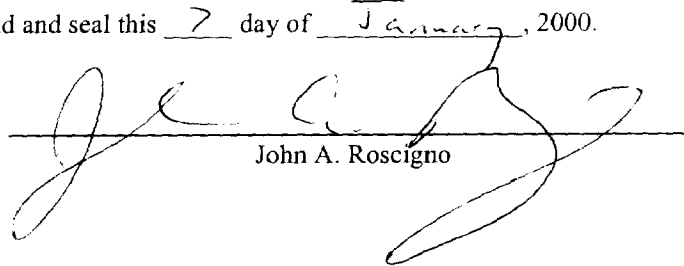
WHEREAS, We, **John A. Roscigno**, a United States citizen, residing at 25914 Coleridge Place, Stevenson Ranch, California 91381, **Craig W. Hodgson**, a United States citizen, residing at 2807 Irongate Place, Thousand Oaks, California 91362, **Donald A Frederick**, a United States citizen, residing at 3490 High Point Place, Simi Valley, California 93065, and **William C. Knaack**, a United States citizen, residing at 7829 Faust Avenue, West Hills, California 91304 have invented certain new and useful improvements in an **ACOUSTIC SENSING SYSTEM FOR DOWNHOLE SEISMIC APPLICATIONS UTILIZING AN ARRAY OF FIBER OPTIC SENSORS**, for which we filed U.S. Patent Application No. 09/429,048 on October 29, 1999;

AND WHEREAS, **LITTON SYSTEMS, INC.** (hereinafter "ASSIGNEE"), a Delaware corporation, with a principal place of business at 21240 Burbank Boulevard, Woodland Hills, California 91367, desires to acquire the entire right, title, and interest in and to the said improvements and the said Application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to me in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said inventors, do hereby acknowledge that we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title, and interest throughout the world in, to and under the said improvements, and the said application and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof and we hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we will communicate to the said ASSIGNEE, successors, legal representatives and assigns, any facts known to us respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 7 day of January, 2000.



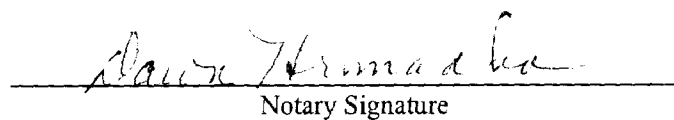
John A. Roscigno

STATE OF CALIFORNIA }
COUNTY OF } ss.

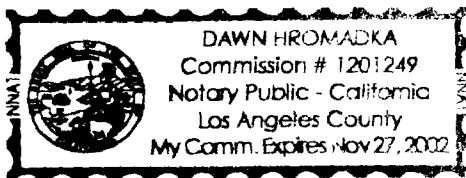
On January 7, 2000, before me, Dawn Hromadka, personally appeared **John A. Roscigno**, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

[SEAL]



Notary Signature



IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 7th day of January, 2000.

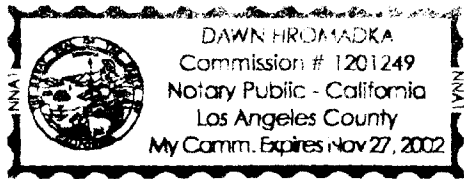
Craig W. Hodgson
Craig W. Hodgson

STATE OF CALIFORNIA }
COUNTY OF } ss.

On Jan 7 2000, before me, Dawn Hromadka, personally appeared **Craig W. Hodgson**, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that they executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

[SEAL]



Dawn Hromadka
Notary Signature

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 7th day of JANUARY, 2000.

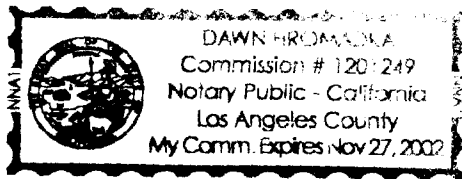
Donald A. Frederick
Donald A. Frederick

STATE OF CALIFORNIA }
COUNTY OF } ss.

On January 7, 2000, before me, Dawn Hromadka, personally appeared **Donald A. Frederick**, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

[SEAL]



Dawn Hromadka
Notary Signature

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 7 day of January, 2000.

William C. Knaack
William C. Knaack

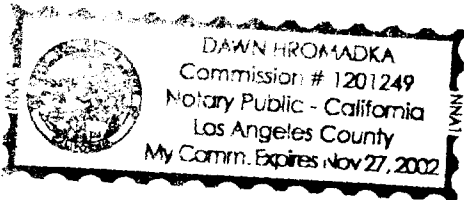
STATE OF CALIFORNIA }
COUNTY OF } ss.

On January 7, before me, Dawn Hromadka, personally appeared **William C. Knaack**, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

[SEAL]

Dawn Hromadka
Notary Signature



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