

08-14-1998

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

RI



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U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

100755761

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

<p>1. Name of conveying parties: Tensor, Inc.</p> <p>Additional name(s) &amp; party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>2. Name and address of receiving party(ies): Name: <u>AlliedSignal Inc.</u> Internal Address: _____ P.O. Box 2245 Morristown, New Jersey 07962 Street Address: _____ 101 Columbia Road City: <u>Morristown</u> State: <u>NJ</u> Zip: <u>07962</u></p> <p>Additional name(s) &amp; address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>3. Nature of conveyance: <u>MRD 7-27-98</u></p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____</p> <p>Execution Date: <u>July 17, 1998</u></p>	

4. Application number(s) or patent number(s): Attorney Docket No.: \_\_\_\_\_

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

<p>A. Patent Application No.(s) See attached</p>	<p>B. Patent No.(s) <del>See attached</del> <u>5008664</u></p>
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Additional numbers attached?  Yes  No

<p>5. Name and address of party to whom correspondence concerning document should be mailed: Name: <u>Jeanne C. Suchodolski</u> Internal Address: <u>AlliedSignal, Inc.</u> <u>P.O. Box 2245</u> <u>Morristown, New Jersey 07962</u> Street Address: _____ <u>101 Columbia Road</u> City: <u>Morristown</u> State: <u>NJ</u> Zip: <u>07962</u></p>	<p>6. Total number of applications and patents involved: <u>1</u></p> <p>7. Total fee (37 CFR 3.41) .....\$ <u>40</u> <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account</p> <p>8. Deposit account number: <u>01-1113</u> (Attach two duplicate copies of this page if paying by deposit account)</p>
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FILE*

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.*

Jeanne C. Suchodolski (34,936) \_\_\_\_\_ 7/24/98  
Name of Person Signing Signature Date

Total number of pages including cover sheet, attachments, and document: 5

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

REEL: 9328 FRAME: 0731

**U.S. and Foreign Patents Involved**  
**Tensor, Inc. (Assignor)**  
**AlliedSignal, Inc. (Assignee)**  
**Page 2**

<u>Patent</u>	<u>Serial No.</u>	<u>Issue Date</u>
U.S. Patent No. 4,709,486	860,020	1 December 1987
U.S. Patent No. 4,875,014	221,730	17 October 1989
U.S. Patent No. 4,891,734	206,837	2 January 1990
U.S. Patent No. 5,008,664	468,591	16 April 1991
U.S. Patent No. 5,064,006	264,445	12 November 1991
U.S. Patent No. 5,230,387	788,130	27 July 1993
U.S. Patent No. 5,333,686	73,785	2 August 1994

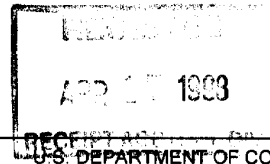
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4/17/98

04-22-1998



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NET

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

FORM PTO-1586  
(Rev. 6-93)  
OMB No. 0651-0011 (exp. 4/94)

RECORDATION  
**PATENTS ONLY**

md 4-17-98

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

<p>1. Name of conveying parties: Tensor, Inc.</p> <p>Additional name(s) &amp; party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>2. Name and address of receiving party(ies): Name: <u>AlliedSignal Inc.</u> Internal Address: _____ P.O. Box 2245 <u>Morristown, New Jersey 07962</u> Street Address: _____ <u>101 Columbia Road</u> City: <u>Morristown</u> State: <u>NJ</u> Zip: <u>07962</u></p> <p>Additional name(s) &amp; address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>3. Nature of conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____</p> <p>Execution Date: <u>March 31, 1998</u></p>	

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: \_\_\_\_\_

<p>A. Patent Application No.(s) See attached</p>	<p>B. Patent No.(s) See attached</p>
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Additional numbers attached?  Yes  No

<p>5. Name and address of party to whom correspondence concerning document should be mailed: Name: <u>Jeanne C. Suchodolski</u> Internal Address: <u>AlliedSignal, Inc.</u> <u>P.O. Box 2245</u> <u>Morristown, New Jersey 07962</u> Street Address: _____ <u>101 Columbia Road</u> City: <u>Morristown</u> State: <u>NJ</u> Zip: <u>07962</u></p>	<p>6. Total number of applications and patents involved: <u>17</u></p> <p>7. Total fee (37 CFR 3.41) .....\$ <u>280.00</u> <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account</p> <p>8. Deposit account number: <u>01-1113</u> (Attach two duplicate copies of this page if paying by deposit account)</p>
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~~4709486~~ 01113 **DO NOT USE THIS SPACE**

9. Statement and signature. FC 581 680.00 CH  
*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.*

Jeanne C. Suchodolski (34,936) \_\_\_\_\_ 4/15/98  
Name of Person Signing Signature Date

Total number of pages including cover sheet, attachments, and document: 9

**U.S. and Foreign Patents Involved**  
**Tensor, Inc. (Assignor)**  
**AlliedSignal, Inc. (Assignee)**  
**Page 2**

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U.S. Patent No. 5,230,387	788,130	27 July 1993
U.S. Patent No. 5,333,686	73,785	2 August 1994

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This instrument shall in all respects be interpreted, construed, and governed by and in accordance with the laws of the State of Texas, disregarding any conflict of laws provisions which may require the application of the law of another jurisdiction. Any cause of action that arises out of or that relates in any way to the transactions that are the subject of this instrument shall be filed and conducted in State or Federal Court in Travis County, Texas.

**EXECUTED THIS 31st day of March, 1998.**

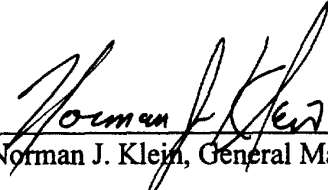
**ASSIGNOR:**

Tensor, Inc.,  
a Texas corporation

By:   
George F. Roberts, President

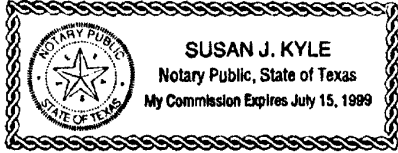
**ASSIGNEE:**

AlliedSignal Inc.,  
a Delaware corporation

By:   
Norman J. Klein, General Manager

STATE OF TEXAS           §  
  §  
COUNTY OF TRAVIS       §

This instrument was acknowledged before me on this 31st day of March, 1998, by George F. Roberts, President of Tensor, Inc., a Texas corporation, on behalf of said corporation.



Susan J. Kyle  
Notary Public in and for the State of Texas

My Commission Expires:  
7-15-99

Print Name of Notary:  
Susan J. Kyle

STATE OF TEXAS           §  
  §  
COUNTY OF TRAVIS       §

This instrument was acknowledged before me on this 31st day of March, 1998, by Norman J. Klein, General Manager of AlliedSignal Inc., a Delaware corporation, on behalf of said corporation.



Susan J. Kyle  
Notary Public in and for the State of Texas

My Commission Expires:  
7-15-99

Print Name of Notary:  
Susan J. Kyle

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**EXHIBIT A  
TO  
ASSIGNMENT OF PATENTS AND TRADEMARKS**

**(4 pages attached)**



CURRENT PATENTS AND PATENT APPLICATIONS

3/26/98

FILE NO.	INVENTION	FILING DATE	SERIAL NO.	ISSUE DATE	PATENT NO.	ASSIGNEE
T-0433.01	METHOD OF DETERMINING THE ORIENTATION OF A SURVEYING INSTRUMENT IN A BOREHOLE (US)	5/6/86	860,020	12/1/87	4,709,466	Tensor, Inc.
T-0433.02	SYSTEM & METHOD FOR LOCATING AN UNDERGROUND PROBE HAVING ORTHOGONALLY ORIENTED MAGNETOMETERS (US)	7/20/89	221,730	10/7/89	4,875,014	Tensor, Inc.
T-0433.05	A SYSTEM AND METHOD FOR LOCATING AN UNDERGROUND PROBE (PCT)	7/19/89	PCT/US89/03124			Tensor, Inc.
T-0433.05(A)	A SYSTEM AND METHOD FOR LOCATING AN UNDERGROUND PROBE (EPO-PCT)	7/19/89	89908744.9	1/1/95	0425569	Tensor, Inc.
T-0433.08	DOWNHOLE COMBINATION TOOL (US)	10/28/89	284,445	11/12/91	5,064,006	Magrange, Inc.
T-0433.09	DOWNHOLE COMBINATION TOOL (CANADA)	10/30/89	2,001,745-7			Magrange, Inc.
T-0433.10	DOWNHOLE COMBINATION TOOL (MEXICO)	10/27/89	18139	11/10/93	171,879	Magrange, Inc.
T-0433.12	DOWNHOLE COMBINATION TOOL (PCT-BRAZIL)	10/30/89	PCT/US89/04948	12/27/94	PI 8907132.8	Magrange, Inc.
T-0433.13	DOWNHOLE COMBINATION TOOL (VENEZUELA)	12/18/89	1929-89	2/20/95	1929-89	Magrange, Inc.
T-0433.14	DOWNHOLE COMBINATION TOOL (NORWAY)	10/30/89	894316	9/22/97	301184	Magrange, Inc.
T-0433.15	DOWNHOLE COMBINATION TOOL (NIGERIA)	10/28/89	289/89	7/20/90	RP 10932	Magrange, Inc.
T-0433.16	DOWNHOLE COMBINATION TOOL (MALAYSIA)	10/30/89	PI 8901508	5/30/95	MY-106320-A	Magrange, Inc.

CURRENT PATENTS AND PATENT APPLICATIONS

3/28/98

FILE NO.	INVENTION	FILING DATE	SERIAL NO.	ISSUE DATE	PATENT NO.	ASSIGNEE
T-0433.17	DOWNHOLE COMBINATION TOOL (DENMARK)	10/27/89	5384/89	10/27/89	5384/89	Magrange, Inc.
T-0433.27	DOWNHOLE COMBINATION TOOL (U.S.)	11/5/91	788,130	7/27/93	5,230,387	Magrange, Inc.
T-0433.30	MEASURING WHILE DRILLING SYSTEM (US)	6/8/93	073,785	8/2/94	5,333,686	Quality Drilling Technology, Inc.
	VIBRATION MOUNT FOR ELECTRONIC ASSEMBLIES (US)	6/15/88	206,837	1/2/90	4,891,734	Quantum Solutions, Inc.
	APPARATUS FOR INDUCTIVELY COUPLING SIGNALS BETWEEN A DOWNHOLE SENSOR AND THE SURFACE (US)	1/23/90	488,591	4/16/91	5,008,664	Quantum Solutions, Inc.

REEL: 9328 FRAME: 0740

**Seller uses the following marks:**

- (A) TENSOR;
- (B) CHAMP;
- (C) QDT MWD;
- (D) LOGVIEW; and
- (E) TRUTRACKER (see Appendix 6.12(b)(i)).

**Magrange uses the following marks:**

- (A) MAGRANGE.

**QSI uses the following marks:**

- (A) qPACK;
- (B) qBUS;
- (C) qMIX;
- (D) qMIX/11;
- (E) qMIX/PC;
- (F) qMATH/11;
- (G) qTRIG/11;

- (H) qLOG/11;
- (I) qGL;
- (J) qGL/11;
- (K) qVIEW;
- (L) qVIEW/11;
- (M) qTalk/PC;
- (N) qPROG/11;
- (O) qMWDCNFG;
- (P) qMWD/PC;
- (Q) qMWD/W32;
- (R) qDIRK\_IO;
- (S) qOS/11;
- (T) qNIC/W32;
- (U) qDRT;
- (V) qMPTx;
- (W) qMPRx;
- (X) MEMORYIO;
- (XI) qTALK;
- (XII) QSI; and
- (XIII) Quantum Solutions.

QDT uses the following marks:

- (A) Quality Drilling Technology.

PATENT

REEL: 9328 FRAME: 0742

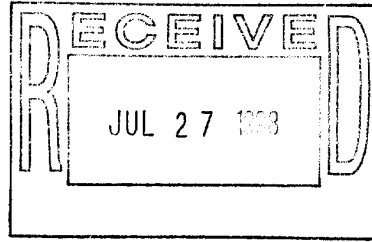
**CERTIFICATE OF MAILING**

I hereby certify that this paper is being deposited with the United States Postal Service with sufficient postage as first Class mail in an envelope addressed to:  
Assistant Commissioner for Patents  
Washington, D.C. 20231, on this date.

*Kim M. Gopler*

Signature of Depositor

Date: 7-24-98



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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of: More, Henry S. et al )  
20 Serial No.: 07/468,591 )  
Patent No.: 5,008,664 )  
25 Filed: 01/23/90 )  
Title: Apparatus For Inductively )  
Coupling Signals Between )  
30 a Downhole Sensor and )  
the Surface )

**Correction of Recorded Cover Sheet Error Under C.F.R. § 3.34**

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

Sir,

40 1. Applicant has noted an error in the cover sheet for the assignment previously recorded on April 17, 1998.

Reel: 9097                      Frame: 0587

45 2. Attached hereto is the originally recorded document.

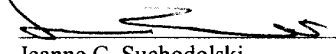
3. Also attached here to is a corrected cover sheet for recordation.

50 4. The error in the originally recorded cover sheet is apparent when that cover sheet is compared with the recorded document because: Serial Number 07/468,591 does not match up with U.S. Patent Number 5,006,664.

5. The recording fee is shown in the corrected cover sheet filed herewith. Payment of this recording fee is in the manner set forth in the corrected cover sheet.

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15

Respectfully submitted,

Signature of Attorney:   
Reg. No.: 34,936  
Date: 7/16/98  
Post Office Address: AlliedSignal Inc.  
101 Columbia Road  
P.O. Box 2245  
Morristown, NJ 07962  
  
Telephone No.: (425) 885-8509