

05-15-2000

Substitute Form PTO-1595  
Attorney Docket No.: 07508-020001

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Assistant Commissioner for Patents: Please record the attached original document(s) or copy(ies).	
1. Name of conveying party(ies): Donald Dieter Frantz, Stephen Eldon Leis, Stefan Kirsch and Christian Schilling Additional name(s) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Name and address of receiving party(ies): Northern Digital Inc. 103 Randall Drive Waterloo, Ontario, CANADA.  and Mednetix AG CH 5232 Villigen, SWITZERLAND Additional names/addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other:  Execution Date: Donald Dieter Frantz 01/04/00; Stephen Eldon Leis 01/04/00; Stefan Kirsch 01/21/00 and Christian Schilling 01/21/00.	
4. Application number(s) or patent number(s): If this document is being filed with a new application, the execution date of the application is: A. Patent Application No(s): 09/428,834 B. Patent No(s): Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Name/address of party to whom correspondence concerning document should be mailed: RICHARD M. SHARKANSKY Fish & Richardson P.C. 225 Franklin Street Boston, MA 02110-2804	6. Total number of applications/patents involved: 1 7. Total fee (37 CFR §3.41): \$40 <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to charge Deposit Account. 8. Deposit Account No.: 06-1050 Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050.
DO NOT USE THIS SPACE	
9. Statement and Signature: <i>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.</i>  Richard M. Sharkansky Reg. No. 25,800 Name of Person Signing  Signature  Date 5/04/00 1/27/00	
Total number of pages including coversheet, attachments and document: 4	

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## CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

January 27, 2000  
Date of Deposit

Cheryl L. McGrath  
Signature

Cheryl L. McGrath  
Typed Name of Person Signing Certificate

**PATENT**  
**REEL: 010774 FRAME: 0371**

# ASSIGNMENT

For valuable consideration, we, Donald Dieter Frantz, of Kitchener, Ontario, Canada, and Stephen Eldon Leis, of Waterloo, Ontario, Canada, hereby assign to Northern Digital Inc., an Ontario, Canada corporation having a place of business at 103 Randall Drive, Waterloo, Ontario, Canada N2V 1C5, and its successors and assigns, and, we, Stefan Kirsch, of Wuerenlingen, Switzerland, and Christian Schilling, of Wuerenlingen, Switzerland, hereby assign to Mednetix AG, a Swiss corporation having a place of business at CH 5232, Villigen, Switzerland, and its successors and assigns (Northern Digital Inc. and Mednetix AG hereinafter called "the Joint Assignees"), of the entire right, title and interest in and to, including, without limitation, the right to sue for past infringement, throughout the world, in the inventions and improvements which are subject of an application for United States Patent signed by us, and such patent application shall be jointly owned by the Joint Assignees, entitled SYSTEM FOR DETERMINING SPATIAL POSITION AND/OR ORIENTATION OF ONE OR MORE OBJECTS, filed October 28, 1999, and assigned U.S. Serial Number 09/428,834, and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, and design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Joint Assignees may reasonably request to effectuate fully this assignment.

IN WITNESS WHEREOF, I hereto set my hand and seal at WATERLOO, ONTARIO, CANADA,

this 4TH day of JANUARY, 2000  
Don Frantz L.S.  
 Donald Dieter Frantz

Witness

04 JANUARY, 2000  
 Date

JAMES E. KEARNS  
 Name

Witness

04 JANUARY, 2000  
 Date

DAVE BELL  
 Name

IN WITNESS WHEREOF, I hereto set my hand and seal at WATERLOO, ONTARIO, CANADA,

this 4TH day of JANUARY, 2000

Stephen Eldon Leis L.S.  
Stephen Eldon Leis

Witness

04 JANUARY, 2000  
Date

Name

James E. Kearns  
Witness

04 JANUARY, 2000  
Date

Name

DAVE BELL  
Name

IN WITNESS WHEREOF, I hereto set my hand and seal at Villigen, Switzerland,

this 21th day of January, 2000

Stefan Kirsch L.S.  
Stefan Kirsch

Witness

Jan. 21/00  
Date

Name

Iain Wilson  
Name

Witness

Jan 21/00  
Date

Name

Raphaël Löffel  
Name

IN WITNESS WHEREOF, I hereto set my hand and seal at Villigen, Switzerland,

this 21<sup>th</sup> day of January, 2000

Christian Schilling L.S.  
Christian Schilling

Irvin Wilson  
Witness

Jan. 21/00  
Date

Irvin Wilson  
Name

R. Löffel  
Witness

Jan. 21/00  
Date

Raphaël Löffel  
Name

403154.B11

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Donald Dieter Frantz, et al.                      Art Unit : 2877  
Serial No. : 09/428,834    Examiner : Unknown  
Filed : October 28, 1999  
Title : SYSTEM FOR DETERMINING SPATIAL POSITION AND/OR  
ORIENTATION OF ONE OR MORE OBJECTS

**BOX ASSIGNMENT**

Assistant Commissioner for Patents  
Washington, D.C. 20231

**ASSIGNMENT TRANSMITTAL LETTER**

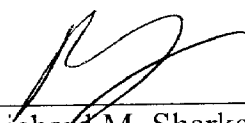
Transmitted herewith in connection with the above-identified patent application is the Assignment Recordation Cover Sheet and executed Assignment document for recordation.

In addition, filed herewith is a check for \$40.00 in payment of the recordation fee.

Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

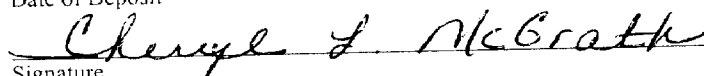
Date: 1/27/00

  
\_\_\_\_\_  
Richard M. Sharkansky  
Reg. No. 25,800

Fish & Richardson P.C.  
225 Franklin Street  
Boston, MA 02110-2804

Telephone: (617) 542-5070  
Facsimile: (617) 542-8906

CERTIFICATE OF MAILING BY FIRST CLASS MAIL  
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Cheryl L. McGrath  
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Typed or Printed Name of Person Signing Certificate