

08-05-1998

Attorney Docket No.: 07508/010001  
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Assistant Commissioner for Patents: Plc

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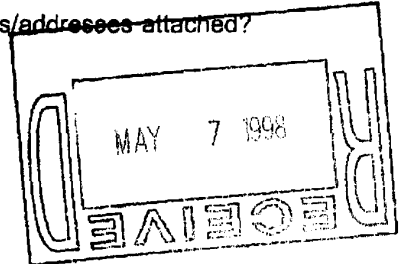
1. Name of conveying party:  
**Stephen Eldon Leis**  
Additional name(s) attached?  Yes  No

2. Name and address of receiving party:  
**Northern Digital Incorporated  
403 Albert Street  
Waterloo, Ontario Canada N2L 3V2**

3. Nature of conveyance:  
 Assignment  
 Merger  
 Security Agreement  
 Change of Name  
 Other:

*MRD 5-7-98*

Additional names/addresses attached?  
 Yes  No



Execution Date: **April 17, 1998**

4. Application number(s) or patent number(s): 08/985,462  
If this document is being filed with a new application, the execution date of the application is:  
A. Patent Application No.(s): B. Patent No.(s):

Additional numbers attached?  Yes  No

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

**Richard M. Sharkansky, Reg. No. 25,800  
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** *40E*  
 Enclosed  
 Authorized to charge deposit account

8. Deposit account number: **06-1050**  
If the fee above is being charged to deposit account, a duplicate copy of this cover sheet is attached. Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050.

**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 the attached is the original document.*

**Richard M. Sharkansky, Reg. No. 25,800**  
Name of Person Signing

*[Signature]*  
Signature

*5/4/98*  
Date

Total number of pages including cover sheet, attachments, and document: **2**

05/19/1998 TTON11 00000063 08985462  
01 FC:581 40.00 DP

Date of Deposit May 4, 1998  
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 above and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

*Cheryl L. McGrath*  
PATENT

REEL: 9209 FRAME: 0756

ASSIGNMENT

For valuable consideration, I, Stephen Eldon Leis, of Ontario, Canada hereby assign to Northern Digital Incorporated, a corporation incorporated under the laws of the Province of Ontario Canada and having a place of business at 403 Albert Street, Waterloo, Ontario Canada N2L 3V2, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by me, entitled A SYSTEM FOR DETERMINING THE SPATIAL POSITION AND ORIENTATION OF A BODY, filed December 5, 1997, and assigned U.S. Serial Number 08/985,462, and I 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 I authorize the Assignee to apply in all countries in my name or in its own name for patents, utility models, design registrations and like rights of exclusion, and for inventors' certificates for said inventions and improvements; and I agree for me and my 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 Assignee may reasonably request to effectuate fully this assignment.

IN WITNESS WHEREOF, I hereto set my hand and seal at WATERLOO, ONTARIO, CANADA this 17TH day of APRIL, 1998  
Stephen E. Leis  
Stephen E. Leis L.S.

PROVINCE OF ONTARIO :  
:ss.  
COUNTRY OF CANADA :

Before me this 17TH day of APRIL, 1998 personally appeared

STEPHEN E. LEIS known to me to be the person whose name is subscribed to the foregoing Assignment, and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.

[Signature]  
WITNESS SIGNATURE

WITNESS TYPED OR CLEARLY PRINTED NAME & ADDRESS:

JAMES E. KEARNS  
Name  
51 RADCLIFFE DRIVE  
Address  
KITCHENER, ONTARIO, CANADA  
N2E 1Y7

PATENT