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Tab settings ⇔ ⇔ ♥	▼	10099011	9 -	▼	▼	▼	
To the Honorable Commissioner	r of Patents and	Trademarks: Please		ed origina	documents or cop	y thereof.	
1. Name of conveying party(ies): and James V. Howard	Jon J. Mc): 22 Name and addr Name:No		ceiving party(ies) struments, In		
Additional name(s) of conveying party(ies) a	attached? 🗆 Yes		Internal Address	s: <u>25</u>	51 West Belt	line Highway	
3. Nature of conveyance:							
Assignment	🗅 Merge	er	Street Address:	25	51 West Belt	line Highway	
Security Agreement	🗆 Chang	ge of Name			·····		
Other			City: <u>Middlet</u>	on	_State: <u>WI</u>	_ZIP: <u>53562</u> _	
Execution Date: <u>January 25</u>	5, 1999		Additional name(s) & address(es) attached? 🗅 Yes 🏞 No				
If this document is being filed to A. Patent Application No.(s)	09/236,776	Ň	B. Patent No.(s		Nication is:		
	5. Name and address of party to whom correspondence concerning document should be mailed:			6. Total number of applications and patents involved: 1			
Name: Peter J. Mang	ghra	7.	Total fee (37 CF	-R 3.41).	<u>\$</u> 40.00)	
Internal Address: Foley &	Lardner		🛛 Enclosed				
Р.О. Воя	x 1497		Authorized t	o be cha	rged to deposit a	ccount	
Street Address: 150 East	t Gilman Sti	reet . 8.	Deposit accoun				
City: <u>Madison</u> State:	WI_ZIP	53701	06-1447 (Attach duplicate co		page if paying by dep	osit account)	
/22/1999 JSHABAZZ 00000109 09236776		DO NOT USE THIS	SPACE			<u></u>	
9. Statement and signature. To the best of my knowledge and the original document. Peter J. Manghera Name of Person Signing		egoing information in Defense Signa pages including cover si	Mayhu	<u></u>	Marc	is a true copy o LO, 1999 Date	
Maild	ocumente to be r	ecorded with require of Patents & Tradema Washington, D.C. 2	d cover sheet info rks, Box Assignm 0231	ents PA		969	

ningi	ton,	D.C.	20231	
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ASSIGNMENT

WHEREAS, Jon J. McCarthy and James V. Howard (hereinafter "ASSIGNORS"), have invented a WAVELENGTH DISPERSIVE X-RAY SPECTROMETER WITH X-RAY COLLIMATOR OPTIC FOR INCREASED SENSITIVITY OVER A WIDE X-RAY ENERGY RANGE, for which application is being made for Letters Patent in the United States, said application being executed by ASSIGNORS on <u>Jan. 25, 1999</u>, and claiming priority from United States Provisional Application 60/072,776, filed on January 27, 1998;

WHEREAS, Noran Instruments, Inc. (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the State of Wisconsin, and having its principal office in Middleton, Wisconsin, is desirous of acquiring an interest in the APPLICATION;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which by ASSIGNORS from ASSIGNEE is hereby acknowledged, said ASSIGNORS, by these presents, do hereby sell, assign, and transfer unto ASSIGNEE the full and exclusive right, title, and interest for the territory of the United States of America, its territories and possessions, and for all foreign countries, in and to the invention as described in the above application and provisional application and in and to the patent application and the provisional application. The invention, application, provisional application, and Letters Patent are to be held and enjoyed by ASSIGNEE for its own use, and by its successors and assigns, to the full end of the term for which Letters Patents may be granted, as fully and entirely as the same would have been held by ASSIGNORS had this Assignment and sale not been made.

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PATENT REEL: 9825 FRAME: 0970

ASSIGNORS do further hereby agree to provide all reasonable aid to ASSIGNEE in the making and prosecuting of any application for other Letters Patent that ASSIGNEE may wish to make covering the invention claimed in the application and in vesting in ASSIGNEE like exclusive right, title, and interest in and to all such other application and resulting Letters Patent in similar proportion. ASSIGNORS hereby agree that ASSIGNORS will similarly aid ASSIGNEE in the prosecution of any interference that may arise involving any application for Letters Patent herein contemplated and that ASSIGNORS will execute and deliver to ASSIGNEE any and all additional papers that may be reasonably requested by ASSIGNEE to fully carry out the terms of this Assignment.

ASSIGNORS hereby authorize the ASSIGNEE or the attorney of record in the application to insert below the filing date and serial number of the application when that information is known:

Serial No.: 09/236,776

Filing Date: January 25, 1999

Executed this 25 day of Annuary ASSIGNOR: McGarthy (SEAL) Jon | STATE OF WISCONSIN)) ss.

Before me personally appeared Jon J. McCarthy, to me known to be the person identified as ASSIGNOR in the above Assignment, who signed the foregoing instrument in my presence and made oath before me to the allegations set forth therein as being under oath on the 25th day of January , 1999.

Notary Public Cynthia J. Mall

My Commission: expires June 3, 2001

Executed this 25^{4h} day of 5_{ANUARV} , 1999.

ASSIGNOR:

James V. Howard (SEAL)

STATE OF WISCONSIN) ss. COUNTY OF DANE

COUNTY OF DANE

Before me personally appeared James V. Howard, to me known to be the person identified as ASSIGNOR in the above Assignment, who signed the foregoing instrument in my presence and made oath before me to the allegations set forth therein as being under oath on the 25th day of January , 1999.

<u>Cynthia</u> <u>J.</u> <u>Hall</u> Notary Public Cynthia J. Hall</u>

My Commission: expires June 3, 2001

003.146120

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PATENT REEL: 9825 FRAME: 0972

RECORDED: 03/15/1999