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	EET U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office	
To The Honorable Commissioner of Patents and Trauemans.	417232 January or converte or	
1. Name of conveying party(jes):	2 Name and address of receiving party(ies)	
Robert A. West 3.31-03	A L	
	Name: Trading Technologies International, Inc.	
Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No	- C #	
Additional flame(s) of conveying party(ics) attached: 11 165 12 No	Address: 222 S. Riverside Plaza, Suite 1100	
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3. Nature of conveyance:		
	City: Chicago State: Illinois	
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☐ Security Agreement ☐ Change of Name	Country: U.S.A. Zip: 60606	
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Other	· ·	
Execution Date: 3/31/03		
4. Application number(s) or patent number(s):	Additional name(s) & address(es) attached? ☐ Yes ☒ No	
4. Application number(s) or patent number(s):	747	
If this document is being filed together with a new application, the	ne execution date of the application is: March 31, 2003	
A. Patent Application No.(s) Filing Date	B. Patent No.(s)	
Additional numbers	s attached? ☐ Yes ☒ No	
Name and address of party to whom correspondence concerning		
 Name and address of party to whom correspondence concerning document should be mailed: 	6. Total number of applications and patents involved: 1	
	o. Form number of apprearions and paterns involved.	
Name: Matthew J. Sampson		
D 14 11 N 25 000		
Registration No.: 35,999	7. Total Fee (37 CFR 3.41)\$40.00	
Company Name: McDonnell, Boehnen, Hulbert & Berghoff	☑ Enclosed	
Company Nume. Westimen, Seemien, Hutter & Berghon	-	
Street Address: 300 South Wacker Drive – 32 nd Floor	☐ Authorized to be charged to deposit account	
City: Chicago State: Illinois	8. Deposit account number:	
C + NC+	12 2400	
Country: U.S.A. ZIP: 60606		
/10/2003 ECOUPER 00000269 132490 10403757 DO NOT U	JSE THIS SPACE	
FC:8021 40.00 CH		
9. Statement and signature. To the best of my knowledge and belief the foregoing information	n is true and gorrect and any attached copy is a true copy of the original	
document.		
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Matthew J. Sampson	Date: March 31, 2003	
Printed Name of Person Signing	Signature	
Total number of pages including cover sheet, attachments, and document: 4		
Mail documents to be recorded with required cover sheet information to:		
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PATENT REEL: 013934 FRAME: 0627

ASSIGNMENT

Case No.: 02-211-A Serial No.:

Inventors: Harris C. Brumfield, Robert A. West

Date of Execution of Application:

Filing Date: March 31, 2003

In consideration of One Dollar (\$1.00) and other good and valuable considerations in hand paid, the receipt and sufficiency whereof are hereby acknowledged, the undersigned hereby assign to:

Trading Technologies International, Inc., a corporation of the State of Delaware

its successors and assigns, the entire right, title and interest in the invention or improvements of the undersigned disclosed in an application for Letters Patent of the United States, entitled:

A SYSTEM AND METHOD FOR GROUP POSITIONING OF MARKET INFORMATION IN A GRAPHICAL USER INTERFACE

and identified as:

Case No. 02-211-A

in the offices of McDonnell Boehnen Hulbert & Berghoff and in said application and any and all other applications, both United States and foreign, which the undersigned may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States and foreign countries, which may be obtained on any of said applications, and in any reissue or extension of such patents, and further assigns to said assignee the priority right provided by the International Convention.

The undersigned hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said assignee.

The undersigned hereby authorize and request the attorneys of record in said application to insert in this assignment the filing date and serial number of said application when officially known, and the date of execution of the application.

The undersigned warrant themselves to be the owners of the entire right, title and interest in said invention or improvements and to have the right to make this assignment, and further warrant that there are no outstanding prior assignments, licenses, or other encumbrances on the interest herein assigned.

For said considerations the undersigned hereby agree, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all divisional, continuation and substitute applications for said invention or improvements, and any necessary oath, affidavit or declaration relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application and any and all applications and other documents for Letters Patent in foreign countries on said invention or improvements, that said assignee, its successors or assigns may deem necessary or expedient, and for the said considerations the undersigned authorize said assignee to apply for patents for said invention or improvements in its own name in such countries where such procedure is proper and further agree, upon the request of said assignee, its successors and assigns, to cooperate to the best of the ability of the undersigned with said assignee, its successors and assigns, in any proceedings or transactions involving such applications or patents, including the preparation and execution of preliminary statements, giving and producing evidence, and performing any and all other acts necessary to obtain, maintain and enforce said Letters Patent, both United States and foreign, and vest all rights therein hereby conveyed in the assignee, its successors and assigns, to the full end of the term for which said Letters Patent will be granted, as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment had not been made.

- 1 -

WITNESS my hand and seal this day of,		
State of	Harris C. Brumfield	
County of		
The foregoing instrument was acknowledged before me this day of		
, by		
	NOTARY PUBLIC	
WITNESS my hand and seal this 31 day of March, 2003.		
State of Illinois	Robert A. West	
County of Cook The foregoing instrument was acknowledged before	me this 3157 day of	
"O F F I C I A L S E A L" MARC H. NOBUHATA NOTARY PUBLIC, STATE OF ILLINOIS MY COMMISSION EXPIRES 2/18/2007	Mar If Mobilet NOTARY PUBLIC	

- 2 -

RECORDED: 03/31/2003