RECORDATION FORM COVER SHI PATENTS ONLY

10-12-1999

Assistant Commissioner for Patents: Please record the attached original docum 101166461 1. Name of conveying party(ies): Name and address of receiving party(ies): Ana Gabriela Anaya, Brenda L. Boulter and Afari 9: 53 The NASDAQ Stock Market G. Neidenbach 1735 K Street Washington, DC 20036 Additional name(s) attached? ☐ Yes ■ No Additional names/addresses attached? ☐ Yes ■ 3. Nature of conveyance: Assignment □ Merger ☐ Security Agreement □ Change of Name ☐ Other: Execution Date: Ana Gabriela Anaya, 9/22/99; Brenda L. Boulter, 9/22/99 and Ann G. Neidenbach, 9/23/99 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): B. Patent No.(s): 09/347,497 Additional numbers attached? ☐ Yes ■ No. 6. Total number of applications/patents involved: 1 Name/address of party to whom correspondence concerning document should be mailed: 7. Total fee (37 CFR 3.41): \$40 Denis G. Maloney ■ Enclosed Fish & Richardson P.C. ☐ Authorized to charge deposit account 225 Franklin Street Boston, MA 02110-2804 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. Name of Person Signing Total number of pages including cover sheet, attachments, and document: 3 10/08/1999 DMGUYEN 00000225 09347497 Date of Deposit 40.00 OP 01 FC:581 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.

PATENT

REEL: 010291 FRAME: 0590

ASSIGNMENT

For valuable consideration, we, Ana Gabriela Anaya, of Germantown, MD 20876; Brenda

L. Boulter of Poolesville, MD 20837; Ann G. Neidenbach of Washington, DC; hereby assign to The NASDAQ Stock Market, a Delaware corporation having a place of business at 1735 K Street, Washington, DC 20036, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest, 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, entitled MARKET EVENT ALERTS AND USER ACCESS TO MONITORING DATA, filed July 2, 1999, and assigned U.S. Serial Number 09/347,497, 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 Assignee may reasonably request to effectuate fully this assignment.

| | - , | | ' |
|--------------------------------|---------------------------------|---|------------------|
| In Witness Whereof, I | hereto set my hand and seal a | at NASD Regulation, Inc. | |
| this <u>22</u> day of <u>5</u> | (andone | <u> </u> | L.S |
| Ana | Gabriela Anaya | • | |
| STATE OF Manyon | | | |
| COUNTY OF Montgo | nen; | | |
| Before me | this <u>22</u> day of <u>50</u> | tember, 1999, personally appear | ared |
| Ana Gabriela An | | be the person whose name is subscri | |
| | d acknowledged that he/she e | xecuted the same as his/her free act | and deed for the |
| | Notary Public Jan | • | |
| [Notary's Seal Here] | My Commission Expires: | MIMI LAU NOTARY PUBLIC STATE OF MARYLAND My Commission Expires February 1, 2003 | |

[Notary's Seal Here]

PATENT REEL: 010291 FRAME: 0591

| WITNESS WHEREOF, I hereto set my hand and seal at NASD Regulation, The | |
|--|-------|
| is <u>22</u> day of <u>September</u> , 1999 | |
| Diena, Boulter | L.S. |
| Br¢nda L. Boulter | |
| TATE OF Manyland: | |
| OUNTY OF Monty omens: | |
| Before me this 22 day of September, 1997, personally appeared | |
| Reside L. Boulter known to me to be the person whose name is subscribed to the regoing Assignment, and acknowledged that he/she executed the same as his/her free act and deed for proses therein contained. | r the |
| Notary Public Lan | |
| My Commission Expires: NOTARY PUBLIC STATE OF MARYLAND My Commission Expires February 1, 2003 | |
| WITNESS WHEREOF, I hereto set my hand and seal at NASD is 23 day of Sykunder, 1999 | |
| Ann G. Neidenbach | L.S. |
| TATE OF THE RYLAND: | |
| DUNTY OF MOYNIGOMERY: | |
| Before me this 23 day of 5 77 , 1999 , personally appeared | |
| known to me to be the person whose name is subscribed to the regoing Assignment, and acknowledged that he/she executed the same as his/her free act and deed for rposes therein contained. | r the |
| Notary Public My Commission Expires: 1/1/03 | |
| My Commission Expires: 1/1/03 [otary's Seal Here] | |
| | |

RECORDED: 10/07/1999

PATENT REEL: 010291 FRAME: 0592