UNITED ST.	ATES PATENT	AND TRADE	MARK OFFIC
BEFORE T	HE PATENT TR	RIAL AND AP	PEAL BOARD

IBG LLC, INTERACTIVE BROKERS LLC, TRADESTATION GROUP, INC., and TRADESTATION SECURITIES, INC., Petitioners

V.

TRADING TECHNOLOGIES INTERNATIONAL, INC. Patent Owner

Patent No. 7,412,416 B2

DECLARATION OF KENDYL A. ROMÁN IN SUPPORT OF PETITION FOR COVERED BUSINESS METHOD REVIEW OF U.S. PATENT 7,412,416



# **Table of Contents**

I.	QUA	LIFIC	ATIONS	6
	A.	TEST	IFYING ENGAGEMENTS	17
II.	MY	UNDE	RSTANDING OF CLAIM CONSTRUCTION	21
III.	MY	UNDE	RSTANDING OF OBVIOUSNESS	21
IV.	LEV	EL OF	ORDINARY SKILL IN THE ART	23
V.	BACKGROUND OF THE SUBJECT MATTER DISCLOSED IN THE '416 PATENT SPECIFICATION			24
	A.	Сомі	PUTER HARDWARE, SOFTWARE, AND FIRMWARE	24
	B.	INPU	T/OUTPUT ADAPTERS AND USER INPUT DEVICES	25
	C.	DISPI	LAY, PIXEL, AND VIDEO FRAME	25
	D.		BITMAPS, PIXMAPS, AND GRAPHIC IMAGES	
VI.	OVE	RVIEV	W OF THE '416 PATENT	28
VII.	INV	ALIDI	ΓY UNDER 35 U.S.C. § 101	34
VIII.			BINATION OF TOKYO STOCK EXCHANGE ("TSE"), SUBLER	35
	A.			
	B.	U.S.	PATENT 5,347,452 TO BAY	35
	C.	U.S.	PATENT 5,646,992 TO SUBLER	35
	D.	CLAII	м 1	35
		1.	Preamble (1.P)	36
		2.	"displaying a chart on a graphical user interface"  (1.A)	42
		3.	"displaying indicators representing historical trading data" (1.B)	
		4.	"providing a plurality of locations" (1.C)	50
		5.	"placing an order icon for a particular quantity" (1.D)	55
		6.	"generating an order to buy or sell the particular quantity" (1.E)	67



		7. "sending the order to an electronic trading system"	
		(1.F)	69
	E.	CLAIMS 2 AND 15	71
	F.	CLAIMS 3 AND 16	72
	G.	CLAIMS 4 AND 17	73
	H.	CLAIMS 5 AND 18	75
	I.	CLAIMS 6 AND 19	76
	J.	CLAIMS 7 AND 20	77
	K.	CLAIMS 8 AND 21	79
	L.	CLAIM 9	81
	M.	CLAIMS 10 AND 11	83
	N.	CLAIMS 12 AND 22	84
	O.	CLAIM 13	85
	P.	CLAIM 14.	86
	Q.	CLAIMS 23 AND 24	87
v	CON	ICLUSION	90

### I, Kendyl A. Román, declare as follows:

- 1. I have been engaged by Sterne, Kessler, Goldstein & Fox P.L.L.C. on behalf of Petitioners, IBG LLC, Interactive Brokers LLC, TradeStation Group, Inc., and TradeStation Securities, Inc., for the above-captioned Covered Business Method (CBM) review proceeding. I understand that this proceeding involves United States Patent 7,412,416, entitled "User interface for an electronic trading system," by Richard W. Friesen and Peter C. Hart, filed May 3, 2006, and issued August 12, 2008 (the "'416 Patent"). I understand that the '416 Patent claims priority to application No. 09/289,550 (now United States Patent 7,212,999), filed April 9, 1999. For the purposes of CBM review, I assume the earliest possible priority date of the '416 Patent is the April 9, 1999 filing date to which the '416 Patent claims priority. I understand that the '416 Patent is currently assigned to Trading Technologies International, Inc. ("TT").
- 2. I have reviewed and am familiar with the specification of the '416 Patent. I understand that the '416 Patent has been provided as Ex. 1001. I will cite to the specification using the following format ('416 Patent, 1:1-10). This example citation points to the '416 Patent specification at column 1, lines 1-10.
- 3. I have reviewed and am familiar with the file history of the '416 Patent. I understand that the file history has been provided as Ex. 1002.



- 4. I have also reviewed and am familiar with the following prior art used in the Petition for Covered Business Method Review of the '416 Patent:
  - A certified translation of "Futures/Option Purchasing System Trading Terminal Operation Guide" ("TSE") and the original figures in the Japanese-language original. The translation is Exhibit 1016, and the original is Exhibit 1015.
  - U.S. Patent No. 5,347,452 to Bay, Jr. ("Bay"), Exhibit 1042.
  - U.S. Patent No. 5,646,992 to Subler et al. ("Subler"), Exhibit 1020.

A complete listing of additional materials considered and relied upon in preparation of my declaration is provided as Ex. 1014. I have relied on these materials to varying degrees. Citations to these materials that appear below are meant to be exemplary but not exhaustive.

- 5. The '416 Patent describes a graphical user interface for electronic trading systems. ('416 Patent, Title, 1:15-17.) I am familiar with the subject matter described in the '416 Patent as of the earliest possible priority date of the '416 Patent (April 9, 1999).
- 6. I have been asked to provide my technical review, analysis, insights and opinions regarding the '416 Patent and the above-noted references that form



# DOCKET

# Explore Litigation Insights



Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

# **Real-Time Litigation Alerts**



Keep your litigation team up-to-date with **real-time** alerts and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

## **Advanced Docket Research**



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

## **Analytics At Your Fingertips**



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

#### API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

#### **LAW FIRMS**

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

#### **FINANCIAL INSTITUTIONS**

Litigation and bankruptcy checks for companies and debtors.

### **E-DISCOVERY AND LEGAL VENDORS**

Sync your system to PACER to automate legal marketing.

