TRADING TECHNOLOGIES, INC.'S MD TRADER®
U.S. PATENT NO. 7,904,374

CLAIM 1	TT'S MD TRADER® WINDOW	TRADESTA... MATRIX W...
1. A method for facilitating trade order entry, the method comprising:	Trading Technologies, Inc.'s ("TT") MD Trader® window ("MD Trader window") facilitates trade order entry by connecting to and displaying market information from electronic exchanges, such that users may place trade orders for a commodity. *See* Figure 1; Ex. 1, X_TRADER® Version 7.12.X User Manual; Ex. 2,. X_TRADER® Version 6.11.0 User Manual; Ex. 3, X_TRADER® Version 5.2.2 User Manual.	TradeStation's Matrix ("Matrix") facilitates t... by connecting to and d... information from elect... such that users may pla... for a commodity. *See*
receiving, by a computing device, market data for a commodity, the market data comprising a current highest bid price and a current lowest ask price available for the commodity;	The MD Trader window receives market data for a commodity from an electronic exchange, the market data comprises a current highest bid price (e.g., 129195) and a current lowest ask price (e.g., 129200) available for the commodity. *See* Figure 1; Ex. 1, X_TRADER® Version 7.12.X User Manual, p. 376 ("To make it easier to identify the mid-point of the inside market, MD Trader places a bold line across the width of its grid. The mid-point line appears midway between the best bid and the best offer in the market."); *see also* Ex. 2, p. 305; Ex. 3, pp. 104-107.	TradeStation's Matrix market data for a comm... market data comprises bid price (e.g., 25.26 a... Figure 1A) and a curre... price (e.g., 25.28 as sh... available for the comm...

identifying, by the computing device, a plurality of sequential price levels for the commodity based on the market data, where the plurality of sequential price levels includes the current highest bid price and the current lowest ask price;	The MD Trader window identifies a plurality of sequential price levels (*e.g.*, price levels in "Price" column) for the commodity based on the market data. The plurality of sequential price levels includes the current highest bid price (e.g., 129195 as shown in Figure 1) and the current lowest ask price (e.g., 129200 as shown in Figure 1). *See* Figure 1; Ex. 1, X_TRADER® Version 7.12.X User Manual, p. 330; Ex. 2, p. 296, 299; Ex. 3, pp. 106-107.	TradeStation's Matrix identifies a plurality of levels (*e.g.*, price level column) for the comm the market data. The p sequential price levels current highest bid pri shown in Figure 1) and lowest ask price (e.g., in Figure 1).
displaying, by the computing device, a plurality of graphical locations aligned along an axis, where each graphical location is configured to be selected by a single action of a user input device to send a trade order to the electronic exchange, where a price of the trade order is based on the selected graphical location;	The MD Trader window displays a plurality of graphical locations (*e.g.*, cells in the blue "Bids" column and red "Asks" column in Figure 1) aligned along an axis. Each graphical location (cell) is configured to be selected by a single action (*e.g.*, single click (Up Click or Down Click) or double click) of a user input device (*e.g.*, mouse) to send a trade order to the electronic exchange. The price of the trade order is based on the selected graphical location (cell). *See* Figure 1; Ex. 1, X_TRADER® Version 7.12.X User Manual, p. 338 ("Click the ladder next to the price at which you want to place an order."); *see also* Ex. 2, p. 302; Ex. 3, pp. 112-113.	TradeStation's Matrix a plurality of graphical cells in the blue "Bid S red "Ask Size" column aligned along an axis. location (cell) is config selected by a single act click (Up Click or Dov double click) of a user (*e.g.*, mouse) to send a the electronic exchang the trade order is based graphical location (cell ("With just a single cli the Bid or Ask column immediately place an o
mapping, by the computing device, the	The MD Trader window maps the	TradeStation's Matrix

plurality of sequential price levels to the plurality of graphical locations, where each graphical location corresponds to one of the plurality of sequential price levels, where each price level corresponds to at least one of the plurality of graphical locations, and where mapping of the plurality of sequential price levels does not change at a time when at least one of the current highest bid price and the current lowest ask price changes;	plurality of sequential price levels (*e.g.*, price levels in the "Price" column) to the plurality of graphical locations (*e.g.*, cells in the blue "Bids" column and red "Asks" column in Figure 1). Each cell in the Bids column and Asks column corresponds to one of the price levels. Each price level corresponds to at least one of the cells in the Bids column and Asks column. *See* Figure 1; Ex. 1, X_TRADER® Version 7.12.X User Manual, p. 330; Ex. 2, p. 296, 299; Ex. 3, pp. 106-107. In the MD Trader window, mapping between the price levels in the "Price" column and the locations in the Bids/Asks columns does not change when the current highest bid price or lowest ask price changes. For instance, in Figure 2, the lowest ask price changes from 129200 to 129205. *See* Figure 2, Time 1 / Time 2 comparison. But the mapping between the price levels and the locations in the Bids/Asks columns does not change.	the plurality of sequent (*e.g.*, price levels in the column) to the plurality locations (*e.g.*, cells in Size" column and red " column in Figure 1). E Bid Size column and A corresponds to one of t Each price level corres one of the cells in the E and Ask Size column. In TradeStation's Matr mapping between the p "Price" column and the Bid Size/Ask Size colu change when the curre price or lowest ask pric example, in Figure 2 th price changes from 25. 25.25 in Time 2, but th between the price level locations in the Bid Siz columns does not chan
and setting a price and sending the trade order to the electronic exchange in response to receiving by the computing device commands based on user actions consisting of: (1) placing a cursor associated with the user input device	The MD Trader window sets a price and sends the trade order to the electronic exchange upon the receipt of commands based on user actions (*e.g.*, single click). For example, the MD Trader window sets the price of an	Matrix sets a price and order to the electronic the receipt of comman actions (*e.g.*, single cli Down Click) or double mouse). For example,

TRADING TECHNOLOGIES, INC.'S MD TRADER®
U.S. PATENT NO. 7,904,374

over a desired graphical location of the plurality of graphical locations and (2) selecting the desired graphical location through a single action of the user input device.	order and sends the order to the electronic exchange when a user places a cursor over a desired graphical location in the Bids column or Asks column and selects the desired graphical location through a single click of a mouse. *See* Figure 1; Ex. 1, X_TRADER® Version 7.12.X User Manual, p. 338 ("Click the ladder next to the price at which you want to place an order."); p. 377 ("MD Trader lets you buy or sell products using one click of a mouse."); *see also* Ex. 2, p. 302, 308; Ex. 3, pp. 111-113.	window sets the price o sends the order to the e exchange when a user over a desired graphica Bid Size column or As and selects the desired location through a sing double click of a mous *See* Ex. 4 ("With just a any row in the Bid or A you're able to immedia order.").

CLAIM 8	TT'S MD TRADER® WINDOW	TRADESTATION'S M... WINDOW
8. The method of claim 1, further comprising: changing the mapping of the plurality of sequential price levels to the plurality of graphical locations in response to receiving by the computing device a re-centering command.	MD Trader window changes the mapping of the plurality of sequential price levels (*e.g.*, in the "Price" column) to the plurality of graphical locations (*e.g.*, the cells in the Bids and Asks columns) in response to receiving a re-centering command. For instance, MD Trader centers the inside market upon receipt of a re-centering command by the user, such as by pressing the spacebar on a keyboard or double-clicking in the Price column. *See* Figure 1; Ex. 1, X_TRADER® Version 7.12.X User Manual, p. 344 ("To center the market: Press the Spacebar."); p. 362 ("Double-click the Price column to recenter the MD Trader grid."); see also Ex. 2, p. 303; Ex. 3, p. 111.	TradeStation's Matrix wir... changes the mapping of th... plurality of sequential pri... (*e.g.*, in the "Price" colum... plurality of graphical loca... (*e.g.*, the cells in the Bid S... Ask Size columns) in resp... receiving a re-centering c... For example, the user can... middle mouse button in th... column, right click on the... window, then left click "C... At," followed by left click... "Last," "Bid," "Mid," or "... configure the re-centering... such that the mapping of t... plurality of sequential pri... to the plurality of graphic... locations occurs in respon... receipt of a re-centering c... based on time (*e.g.*, 1 seco... seconds) or based on the r... rows the last price must m... up/down (*e.g.*, 1 row – 10... *See* Figure 3B; Figure 5.

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