

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	JDA TECHNOLOGIES US, INC.	05/24/2011
RECEIVING PARTY DATA		
Name:	JDA SOFTWARE GROUP, INC.	
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City:	SCOTTSDALE	
State/Country:	ARIZONA	
Postal Code:	85260	
PROPERTY NUMBERS Total: 1		
	Property Type	Number
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ATTORNEY DOCKET NUMBER:	1180.1290DC	
NAME OF SUBMITTER:	STEVEN J. LAUREANTI	
SIGNATURE:	/Steven J. Laureanti/	
DATE SIGNED:	12/22/2016	
Total Attachments: 17		
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PATENT ASSIGNMENT

WHEREAS, JDA TECHNOLOGIES US, INC. (hereafter "Assignor"), a Nevada corporation, having an address of 11701 Luna Road, Dallas, Texas 75234, is the owner of the patents and patent applications, including without limitation those set forth on Exhibit A attached hereto and the inventions described and claimed therein (hereafter the "Patent Property"); and

WHEREAS, JDA SOFTWARE GROUP, INC. (hereafter "Assignee"), a Delaware corporation, having an address of 14400 North 87th Street, Scottsdale, Arizona 85260, did acquire all right, title and interest in and to the Patent Property in the United States of America as the result of an agreement and plan of Merger on November 4, 2009.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor does hereby sell, assign, transfer and set over to Assignee, all right, title and interest in and to the Patent Property in the United States of America, as well as all provisionals, continuations, divisions, and continuations-in-part of said Patent Property, and all reissues and extensions thereof, the same to be held and enjoyed by Assignee for its own use and benefit, and for the use and benefit of its successors, assigns, or legal representatives, to the end of the term or terms for which such Patent Property may be granted or reissued, as fully and entirely as the same would have been held and enjoyed by Assignor if this assignment had not been made.

Assignor further agrees to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such right, title and interest in Assignee.

Assignor also assigns unto Assignee all claims for damages by reason of infringement in the United States of America prior to the assignment date of the Patent Property, with the right to sue for and collect the same for its own use and benefit, and for the use and benefit of its successors, assigns and other legal representatives.

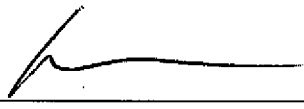
Assignor also will communicate to Assignee any facts known to it respecting any improvements; and, at the expense of Assignee, will testify in any legal proceedings, sign all lawful papers, execute all provisional, divisional, continuation, continuation-in-part, reissue and substitute applications, make lawful oaths and declarations, and generally do everything possible to vest such right, title, and interest in Assignee and to aid Assignee to obtain and enforce proper protection for said Patent Property.

IN WITNESS WHEREOF, this Patent Assignment has been duly executed on the date and in the capacity shown below:

JDA TECHNOLOGIES US, INC.

JDA SOFTWARE GROUP, INC.

By: 
G. Michael Bridge

By: 
Hamish N. Brewer

Its Director, Vice President,
General Counsel, and Secretary

Its Director, President and CEO

Date: May 24, 2011

Date: May 24, 2011

EXHIBIT A**U.S. Patent Applications**

<u>Application No.</u>	<u>Filing Date</u>	<u>Title</u>
10002433	10/23/2001	Order acceleration through user document storage and reuse
10315282	12/09/2002	Generating an optimized pricing plan
10428991	05/01/2003	Displaying values specified in a number of offers for a number of variables with respect to price
10611276	06/30/2003	Data integration system with programmatic source and target interfaces
10611560	06/30/2003	Data integration system with programmatic sources and target interfaces
10611779	06/30/2003	Data integration system with programmatic sources and target interfaces
10672537	09/26/2003	Distributing consumer demand upstream in a supply chain
10739979	12/17/2003	System, method, and software for multi-party constrained optimization
10836448	04/29/2004	Determining an inventory target for a node of supply chain
10845985	05/14/2004	Incorporating a repair vendor into repair planning for a supply chain
10846104	05/14/2004	Incorporating a repair vendor into repair planning for a supply chain
10846320	05/14/2004	Planning a supply of items to a first location associated with a supply chain from one or more second locations associated with the supply chain
10847422	05/17/2004	Master data management system for centrally managing core reference data associated with an enterprise
11105109	04/13/2005	Providing visualization of market offers using a multi-dimensional display including geometrically shaped icons
11109346	04/19/2005	Application-driven scheduling system and method
11158371	06/20/2005	Program-based supply chain management
11185169	07/20/2005	Intelligent fulfillment agents
11218876	09/02/2005	System and method for network visualization and plan review

11371960	03/08/2006	Configurable state model for supply chain management
11371985	03/08/2006	Custom application builder for supply chain management
11384640	03/20/2006	Generating an optimized price schedule for a product
11474317	06/23/2006	System, computer-implemented method, and software for vessel scheduling for product distribution
11545308	10/10/2006	Generating an order plan for a supply chain network
11604500	11/27/2006	Generation and execution of custom requests for quote
11634056	12/05/2006	System and method for multi-enterprise supply chain optimization
11697816	04/09/2007	Facilitating the negotiation of standards for inter-enterprise collaboration between trading partners
11697966	04/09/2007	Master data management system for centrally managing core reference data associated with an enterprise
11773901	07/05/2007	System and method for performing a business process in a multi-enterprise, collaborating network
11779126	07/17/2007	Value chain management
11872940	10/16/2007	Pre-qualifying sellers during the matching phase of an electronic commerce transaction
11875209	10/19/2007	Generating an optimized price schedule for a product
11876089	10/22/2007	Calculating price elasticity
11876120	10/22/2007	System and method for generating market pricing information for non-fungible items
11876483	10/22/2007	Filtered peer-to-peer business communication in a distributed computer environment
11876984	10/23/2007	Generating a sales volume forecast
11877252	10/23/2007	Reproducible selection of members in a hierarchy
11877825	10/24/2007	Providing market feedback associated with electronic commerce transactions to sellers
11877857	10/24/2007	Data management system providing a data thesaurus for mapping between multiple data schemas or between multiple domains within a data schema
11927209	10/29/2007	Enterprise solution framework incorporating a master data management system for centrally managing core reference data associated with an enterprise

11927269	10/29/2007	Master data management system for centrally managing core reference data associated with an enterprise
11927312	10/29/2007	Master data management system for centrally managing core reference data associated with an enterprise
11941493	11/16/2007	Customizable state machine and state aggregation technique for processing collaborative and transactional business objects
12021088	01/28/2008	Sub-problem optimization of supply chain planning problems
12021103	01/28/2008	Time-based decomposition for optimization of master planning problems
12043240	03/06/2008	Sentient optimization for continuous supply chain management
12055100	03/25/2008	System and method for providing an intelligent configuration rationalization solution
12056555	03/27/2008	Generic data staging and loading using enhanced metadata and associated method
12102247	04/14/2008	Business-to-business internet infrastructure
12108947	04/24/2008	System and method for allocating manufactured products to sellers using profitable order promising
12402099	03/11/2009	System and method for negotiating according to improved matching criteria
12427897	04/22/2009	Dynamically routing salvage shipments and associated method
12565348	09/23/2009	System and method for a demand driven lean production control system
12565415	09/23/2009	System and method for a demand driven lean production control system
12569813	09/29/2009	System and method to determine root cause constraints and resolution options to solve order promising exceptions
12607043	10/27/2009	Fast planning heuristic for batch and interactive planning
12610548	11/02/2009	System and method of parallelizing order-by-order planning
12612114	11/04/2009	System and method of scenario versioning
12619805	11/17/2009	System and method for root cause analysis and early warning of inventory problems
12684856	01/08/2010	Optimized deployment of parts in a distribution network

12689345	01/19/2010	System and method for providing buffer inventory profile in a discrete time supply chain planner using a nested bucketization structure
12758303	04/12/2010	Optimizing inventory in accordance with a constrained network
12780573	05/14/2010	Method and system for multi-enterprise optimization using flexible trade contracts
12780620	05/14/2010	Method and system for multi-enterprise optimization using flexible trade contracts
12947323	11/16/2010	Electronic marketplace providing service parts inventory planning and management
13021280	02/04/2011	Generalizing an optimized supplier allocation plan
08314073	09/28/1994	Software system utilizing a filtered priority queue and method of operation
08527161	09/12/1995	Method and apparatus for concurrency in an object oriented database using lock inheritance based on class objects
08491153	06/16/1995	Extensible model network representation system for process planning
08745255	11/08/1996	Dynamically selectable language display system for object oriented database management system
08491121	06/16/1995	Model-independent and interactive report generation system and method of operation
08526555	09/12/1995	A method and system for comparing attributes in an object-oriented management system
08339481	11/10/1994	Object oriented database management system
08491168	06/16/1995	Strategy driven planning system and method of operation
09057036	04/08/1998	Extensible model network representation system for process planning
08918227	08/25/1997	System and process for inter-domain interaction across an inter-domain connectivity plane
09059223	04/13/1998	Model-independent and interactive report generation system and method of operation
08800717	02/17/1997	System for optimizing a network plan and method of operation
08697261	08/21/1996	System and method for extended enterprise planning across a supply chain
08805683	02/25/1997	Factory network having planning coordination systems for coordinating separate factory planning systems and a method of operation.

08917151	08/25/1997	System and process for inter-domain planning analysis and optimization using model agents as partial replicas of remote domains
09026752	02/20/1998	Computer implemented planning system and process providing mechanism for grouping and prioritizing consumer objects based on multiple criteria
08947544	10/11/1997	A framework for negotiation and tracking of sales of goods
08806222	02/25/1997	Software system utilizing a filtered priority queue and method of operation
09092348	06/05/1998	System and process allowing collaboration within and between enterprises for optimal decision making
08802434	02/18/1997	System and method for allocating manufactured products to sellers
08747164	11/08/1996	Search engine with remote access to database management systems
08491167	06/16/1995	System and method for managing available to promise product (ATP)
08918222	08/25/1997	System and process having a universal adapter framework and providing a global user interface and global messaging bus
09154373	09/16/1998	Computer-implemented product development planning method
09322430	05/28/1999	Computer implemented system and method for high level controlled searching through a problem space
09359175	07/22/1999	Computer-implemented value management tool for an asset intensive manufacturer
09156342	09/18/1998	System and method for event notification through a firewall
09156722	09/18/1998	Computer workspace providing event management based on a permissibility framework
09292644	04/15/1999	System and method for optimizing the allocation of a resource
09408336	09/28/1999	Binary tree with override nodes for representing a time-varying function in an enterprise model
09411069	10/04/1999	System and process for inter-domain planning analysis and optimization using model agents as partial replicas of remote domains
09631367	08/02/2000	System and process allowing collaboration within and between enterprises for optimal decision making

09156265	09/18/1998	System and method for remotely accessing data
09409069	09/30/1999	Multi-dimensional data management system
09282912	03/31/1999	Three-dimensional production schedule display for computer-implemented production management system
09292528	04/15/1999	System and method for optimizing the allocation of a resource
09371821	08/11/1999	Data structure and operations for time-varying variable in an enterprise model
08951714	10/16/1997	Modeling of object-oriented database structures, translation to relational database structures, and dynamic searches thereon
09154661	09/18/1998	Object-oriented workflow for multi-enterprise collaboration
09156333	09/18/1998	Synchronizing one or more workflows using one or more synchronization-join activities that include synchronization logic
09156434	09/18/1998	Exemplar workflow used in the design and deployment of a workflow for multi-enterprise collaboration
09241361	01/29/1999	System and method for generating dependant data
09325937	06/04/1999	Computer implemented scheduling system and process using abstract local search technique
09397473	09/17/1999	System and method for displaying logistics information associated with a supply chain
09305580	05/05/1999	Graph-based schedule builder for tightly constrained scheduling problems
09520669	03/07/2000	System and method for collaborative batch aggregation and scheduling
09895528	06/28/2001	System and method for campaign planning
09156264	09/18/1998	Communication across one or more enterprise boundaries regarding the occurrence of a workflow event
09535905	03/24/2000	System and method for providing cross-dimensional computation and data access in an on-line analytical processing (OLAP) environment
09374461	08/13/1999	System and method for visually representing a supply chain
09686446	10/10/2000	Rules-based notification system
09653107	08/31/2000	Multidimensional database system with intermediate lockable intersections

09745980	12/22/2000	System and method for selective database indexing
09742851	12/20/2000	System and method for retrieving information according to improved matching criteria
10393793	03/20/2003	Collaboratively solving an optimization problem using first and second optimization software each having at least partial information concerning the optimization problem
10037695	10/19/2001	Dynamic load balancing using semantic traffic monitoring
10008733	12/05/2001	Consolidation of multiple source content schemas into a single target content schema
09550407	04/14/2000	Method and apparatus for building business objects and business software applications using dynamic object definition
09362776	07/28/1999	Method for planning key component purchases to optimize revenue
10704080	11/06/2003	Collaborative batch aggregation and scheduling in a manufacturing environment
09652520	08/31/2000	Configurable space-time performance trade-off in multidimensional data base systems
09773685	01/31/2001	System and method for developing software applications using an extended XML-based framework
09686442	10/10/2000	Customizable user window
10414892	04/15/2003	Generating a sampling plan for testing generated content
09944908	08/31/2001	Conflict detection and resolution in association with data allocation
09686731	10/10/2000	Workflow encapsulation in stateless environments
09415507	10/08/1999	Method and system for optimizing request-promise workflows
10008898	12/05/2001	Computer-implemented PDF document manager
10072399	02/05/2002	Sorted-paged retrieval of hierarchical data from relational databases
09800169	03/05/2001	Messaging system for computers
09679464	10/04/2000	System and method for service transaction brokering among distributed marketplaces
09397818	09/17/1999	Binary trees for detecting inventory problems in an enterprise model

09397423	09/17/1999	System and method for displaying planning information associated with a supply chain
09686470	10/11/2000	Distributed session services
09580327	05/26/2000	System and method for retrieving data from a database using a data management system
09398171	09/17/1999	System and method for managing ATP data in a distributed supply chain planning environment
09953462	09/14/2001	Providing decision support based on past participant performance within an electronic marketplace environment
10086761	02/28/2002	Automatically generating graphical user interface elements at a client system according to a current configuration model
09962663	09/24/2001	Routing shipments according to criticality
09842297	04/25/2001	Guided buying decision support in an electronic marketplace environment
09858269	05/15/2001	Facilitating electronic commerce transactions using buyer profiles
10086757	02/28/2002	Using connectors to automatically update graphical user interface elements at a client system according to an updated state of a configuration
09825083	04/02/2001	System and method for allocating data in a hierarchical organization of data
09998459	11/29/2001	Mapping between part numbers that are based on different part numbering schemes
09551899	04/19/2000	Method and apparatus for supporting multiple alternative graphical user interfaces in computer-moderated electronic commerce
09800168	03/05/2001	Computer security system
11024299	12/28/2004	Collaborative batch aggregation and scheduling in a manufacturing environment
09835003	04/13/2001	High availability planning and scheduling architecture
09829476	04/09/2001	Estimating based sales volume using a low-pass filter approach
09844847	04/27/2001	Optimization using a multi-dimensional data model
10028480	12/19/2001	Graphical design and automatic generation of supply chain collaboration services capable of understanding supply chain semantics

09156334	09/18/1998	Method and system for managing collaboration within and between enterprises
09333894	06/14/1999	Configuring products within default sections determined according to optimization functions
10274761	10/21/2002	Stack trace generated code compared with database to find error resolution information
09834836	04/13/2001	Synchronization of planning information in a high availability planning and scheduling architecture
09976791	10/12/2001	Sourcing of bills of materials
09999524	10/23/2001	Document storage and classification
09998363	11/29/2001	Distributed automated software graphical user interface (GUI) testing
09755751	01/05/2001	System and method for remotely monitoring and managing applications across multiple domains
09834802	04/12/2001	Local and remote client-server interface transparency in distributed software systems
09949378	09/07/2001	Intelligent order promising
10164516	06/06/2002	Software deployment system and method
09504247	02/15/2000	System and method for allocating manufactured products to sellers
09686447	10/10/2000	System and method for handling a unit of work
09832576	04/11/2001	System and method for lean inventory management
09675780	09/28/2000	System and method for transforming custom content generation tags associated with web pages
10121241	04/11/2002	Computer-implemented automatic classification of product description information
09594652	06/15/2000	Product substitution search method
09771207	01/26/2001	System and method of demand planning for intermediate and by-products
09884393	06/18/2001	Distributed processing of search results in an electronic commerce system
10175562	06/17/2002	Matching and cleansing of part data
09684075	10/08/2000	System for planning a new product portfolio

09684076	10/08/2000	System for scheduling product planning
10001506	10/23/2001	Third party document storage and reuse
09895894	06/29/2001	Protecting content from unauthorized reproduction
09925149	08/08/2001	Generating an order plan for a supply chain network
11319929	12/27/2005	Estimating base sales volume
10033103	10/25/2001	Redistribution of parts in a distribution network
10755437	01/12/2004	Master data management system for centrally managing cached data representing core enterprise reference data maintained as locked in true state read only access until completion of manipulated process
10163782	06/06/2002	System and method for configuring software using a business modeling tool
09930673	08/14/2001	Network application program interface facilitating communication in a distributed network environment
10032945	09/27/2001	Method, system and article of manufacturing for dynamic database redirection using semantic taxonomy information
09895487	06/29/2001	Demand breakout for a supply chain
09972383	10/04/2001	Fulfillment management system for managing ATP data in a distributed supply chain environment
10139102	05/02/2002	Forecasting a last time buy quantity for a service part using a low-pass filter approach
09415052	10/08/1999	System and method for performing a business process in a multi-enterprise, collaborating network
09398170	09/17/1999	System and method for multi-enterprise supply chain optimization
09884007	06/18/2001	Content enhancement in an electronic marketplace
10940851	09/14/2004	Optimization using a multi-dimensional data model
10223925	08/19/2002	Push planning for unserviceable parts to facilitate repair planning in a repair network
09592775	06/13/2000	Electronic marketplace communication system
09745374	12/22/2000	System and method for migrating data in an electronic commerce system

10840928	05/07/2004	Data management system providing a data thesaurus for mapping between multiple data schemas or between multiple domains within a data schema
10103342	03/19/2002	Generating a sales volume forecast
10035712	11/08/2001	Reproducible selection of members in a hierarchy
09892300	06/26/2001	Providing market feedback associated with electronic commerce transactions to sellers
10032971	10/25/2001	Optimized deployment of parts in a distribution network
10090342	03/01/2002	Generating an optimized supplier allocation plan
10279182	10/23/2002	Calculating price elasticity
09895489	06/29/2001	Protecting content from unauthorized reproduction
09941960	08/28/2001	Value chain management
09858322	05/15/2001	Pre-qualifying sellers during the matching phase of an electronic commerce transaction
09534915	03/23/2000	System and method for managing event publication and subscription
09992283	11/05/2001	Generating a risk assessment regarding a software implementation project
09841320	04/23/2001	Extreme capacity management in an electronic marketplace environment
09548466	04/13/2000	Method and system for multi-enterprise optimization using flexible trade contracts
09195332	11/18/1998	Computer-implemented product valuation tool
10119990	04/10/2002	Intelligent fulfillment agents
09745979	12/22/2000	System and method for generating market pricing information for non-fungible items
10308333	12/02/2002	Operationalizing a goal
10059645	01/28/2002	Filtered peer-to-peer business communication in a distributed computer environment
09940764	08/27/2001	Generation and execution of custom requests for quote
10032903	10/19/2001	Generating, updating, and managing multi-taxonomy environments

10103383	03/19/2002	Third party certification of content in electronic commerce transactions
10153844	05/21/2002	Distributed quote management
09859266	05/16/2001	Facilitating electronic commerce transactions using a shared product data repository
09820370	03/11/2001	System and method for matching buyers and sellers in a marketplace
09750617	12/20/2000	System and method for negotiating according to improved matching criteria
10836041	04/29/2004	Determining a policy parameter for an entity of a supply chain
09957831	09/21/2001	Baseline cost savings analysis
11875548	10/19/2007	Computer-implemented product valuation tool
11099859	04/06/2005	System and method for identifying a product
09945296	08/31/2001	System and method for dynamic pricing in an unbalanced market
11696297	04/04/2007	Redistribution of parts in a distribution network
10120571	04/10/2002	System and method for providing distributed inventory management
11120588	05/03/2005	Workflow modeling using acyclic directed graph data structure
11875115	10/19/2007	Redistribution of parts in a distribution network
10823056	04/13/2004	Demand breakout for a supply chain
09745978	12/22/2000	System and method for facilitating electronic commerce transactions
11767699	06/25/2007	Optimized deployment of parts in a distribution network
09970256	10/03/2001	System and computer implemented method for facilitating order entry
10223845	08/19/2002	On-demand repair planning
09978926	10/16/2001	Providing decision support through visualization of participant past performance in an electronic commerce environment
09945297	08/31/2001	Locally generating price quotes using one or more pricing tools received from a seller
09680603	10/08/2000	System and method for displaying graphs

10103384	03/19/2002	Demand planning using exchange balances
11834152	08/06/2007	Content enhancement for analyzing data in a database
09970052	10/03/2001	Displaying market data
11928646	10/30/2007	Content enhancement for analyzing data in a database
11524153	09/20/2006	Computer-implemented product valuation tool
10378802	03/03/2003	Sourcing under quantity pricing rules
10004725	12/04/2001	Generating a supply chain plan
11876210	10/22/2007	Optimized deployment of parts in a distribution network
12031975	02/15/2008	Optimized deployment of parts in a supply chain network
11875403	10/19/2007	Demand breakout for a supply chain
09686711	10/10/2000	System and method for providing electronic financial transaction services
09970371	10/02/2001	Providing visualization of market offers using patterns of geometric display elements
10691320	10/22/2003	Pull planning for unserviceable parts in connection with on-demand repair planning
12414085	03/30/2009	Optimizing inventory in accordance with a constrained network
12414113	03/30/2009	Optimizing inventory in accordance with a constrained network
11691957	03/27/2007	Method and system for multi-enterprise optimization using flexible trade contracts
11691973	03/27/2007	Method and system for multi-enterprise optimization using flexible trade contracts
10894248	07/19/2004	Optimizing inventory in accordance with a constrained network
10847037	05/17/2004	Master data management system for centrally managing core reference data associated with an enterprise
11760229	06/08/2007	Optimization using a multi-dimensional data model
11174931	07/05/2005	Binary trees for detecting inventory problems in an enterprise model
11751348	05/21/2007	Extreme capacity management in an electronic marketplace environment

11875270	10/19/2007	Binary trees for detecting inventory problems in an enterprise model
12631825	12/05/2009	Binary trees for detecting inventory problems in an enterprise model
12631828	12/05/2009	Binary trees for detecting inventory problems in an enterprise model
12403834	03/13/2009	Determining a policy parameter for an entity of a supply chain
10847009	05/17/2004	Enterprise solution framework incorporating a master data management system for centrally managing core reference data associated with an enterprise
11876364	10/22/2007	Method and system for multi-enterprise optimization using flexible trade contracts
10841003	05/07/2004	System providing for inventory optimization in association with a centrally managed master repository for core reference data associated with an enterprise
11877087	10/23/2007	Intelligent fulfillment agents
09895525	06/28/2001	Association of data with a product classification schema
09976750	10/12/2001	Displaying strikes between bids and asks in a market over time using polygons
10836002	04/29/2004	Estimating demand for a supply chain according to order lead time
10836135	04/29/2004	Optimizing an inventory of a supply chain
12507464	07/22/2009	Displaying market data
12186904	08/06/2008	Pull planning for unserviceable parts in connection with on-demand repair planning
09791481	02/22/2001	Electronic marketplace providing service parts inventory planning and management
12406410	03/18/2009	Redistribution of parts in a distribution network
11875159	10/19/2007	Generating an order plan for a supply chain network
11876941	10/23/2007	Generating an optimized supplier allocation plan
12503319	07/15/2009	Demand breakout for a supply chain
12115016	05/05/2008	Generating an optimized price schedule for a product
10836042	04/29/2004	Determining order lead time for a supply chain using a probability distribution of order lead time

12507669	07/22/2009	Displaying market data
12507179	07/22/2009	Displaying market data
09970118	10/03/2001	Computer generation and display of a table of data incorporating one or more color patterns
09608792	06/30/2000	Warranty transaction system and method