

PROCUREMENT NEGOTIATION METHOD

CROSS REFERENCES TO RELATED APPLICATIONS

5 This application claims no benefits from any earlier filed United States or foreign patent applications.

BACKGROUND OF THE INVENTION

1. Technical Field

10 This invention relates generally to computerized methods useful in sales negotiations and more particularly to computerized methods useful in determining the fairness of an offer.

2. Background

15 The profitability of a company is directly dependant upon expenses incurred for standard, non-customized, goods and services. A significant portion of expenses for standard items is often negotiable to some extent. Examples of such negotiable expenses includes the cost of raw materials for use in product manufacturing, the cost of office supplies, the cost of equipment and parts, the cost of various types of services, and the cost of utilities. For a given standard item, with the term item including goods and
20 services, an individual or corporate buyer typically shops to compare the sales terms of different vendors. Comparison shopping is often a time-consuming venture. However, in practice, a buyer who spends a high amount of time in comparison shopping does not necessarily procure his items under sales contract terms that are relatively favorable, when
25 compared to sales contract terms obtained by other buyers in the market for the same item. Besides the objective factors affecting pricing such as quantity sold, availability, method of delivery, warranties, and economic fluctuations, many subjective factors affect the success of a buyer. Such subjective factors includes the buyer's negotiating skills, the purchasing
30 history between the buyer's company and the vendor, personal relationships, and familiarity. Even within the same company, separate

buyers for the same item negotiating separately from each other often procure the same item at a different price per unit.

Efforts have been made to use the internet's World Wide Web network system for eliminating some of the variables in purchasing. For instance, a buyer or seller can often compare their pricing for an item by comparison to sale prices offered for the same item advertised on a vendor's web page. On-line auction sites such as the PRICELINE.COM service between buyers and sellers provide new opportunities for direct negotiation through a bidding system. Even with these new tools available, the purchase price disparity between individual buyers for standard items is often significant.

It is an object of the present invention to provide a new business method that would serve to reduce the buying disparity between buyers for standard items. It is a further object of the present invention to provide a method whereby a potential buyer can evaluate the fairness of a purchase offer, as compared to purchases made for that item by other buyers in the market. It is a still further object for such method to be useful to a vendor in determining the fairness of his selling price of the item. These objects and others are met by the present invention.

BRIEF SUMMARY OF THE INVENTION

The present invention is a computerized method comprising the steps of:

providing a database program adapted for storing multiple sets of data;

building a purchase history database for at least one item by inputting a plurality of sets of sales contract terms controlling a plurality of previous purchases of the item by a group of previous buyers into the database program, each of the plurality of sets of sales contract terms controlling one of the plurality of purchases made by one member of the

group of previous buyers, each of the plurality of sets of sales contract terms including a price paid and a quantity;

providing a logic program adapted for interfacing with the database program and analyzing the purchase history database;

5 calculating a fairness indicator for the item by analyzing the purchase history database using the logic program; and

determining the fairness of the offer by comparing the offer to the fairness indicator, the offer including a sale price.

10 BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a diagram of the system architecture.

FIG. 2 is a flow diagram showing the steps of the present method and the interface between previous buyers with the system, and the interface between users and the system.

15 FIG. 3 is an example of a delineated purchase record used for inputting new data into the purchase history database.

FIG. 4 is a web screen transmitted at the user site for initiation of the method.

20 FIG. 5 is a web screen transmitted at the user site showing an example of fairness indicators calculated for an item.

FIG. 6 is a web screen transmitted at the user site showing discarded data sets for a class-directed fairness comparison.

DETAILED DESCRIPTION

25 The present invention is a computerized method that provides a buyer with a way to meaningfully compare his offer for an item to a database of sales contract terms controlling actual previous purchases of the same item. This method is distinct from previous purchasing methods and tools in that it provides a mechanism whereby a buyer (or seller) can
30 compare a purchase offer to sets of sales contract terms gathered from

actual purchases of the item, instead of the traditional comparison of sale prices offered by vendors.

5 It is important to first clarify the definitions of purchase terms used herein to describe the invention. The term "offer" is used herein to refer to a set of purchase terms. The offer may be an offer to buy or an offer to sell. It does not matter whether the offer has been extended to the other party or, if extended, whether the offer has been accepted by the other party. Therefore, the present method may be used to determine the fairness of an offer before, during, or after a purchase is actually made. The term "sales
10 contract terms" is used herein to refer to terms that have been actually offered and accepted, with all obligations under the contract preferably being previously performed. The term "item" refers to a standard good or service. Also, in a situation where a company has different buying agents independently responsible for negotiating the purchase of the same item,
15 those agents are considered to be separate buyers in the present invention.

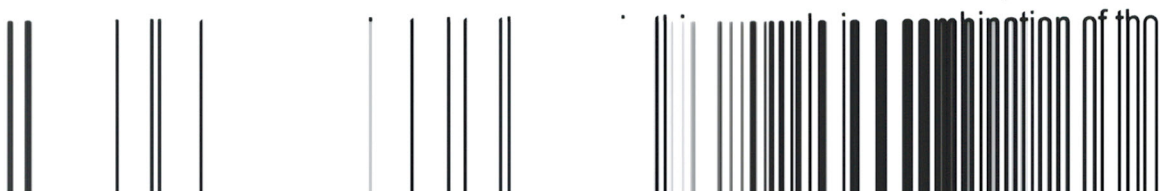
The method of the present invention requires a computer system having a database program adapted for storing multiple sets of data and a logic program adapted for interfacing with the database program and analyzing the data stored therein. A suitable database program includes
20 relational tables where each table has a name, columns of data fields and rows containing data. A suitable logic program manages and controls access to the data by users. A useful logic program is a program capable of associating data from the database, filtering unwanted information and preparing data for presentation to the user by the user interface. The
25 computer system is preferably an internet network client/server system where the database and logic program are located on a server site and the logic program is adapted to communicate over the network to at least one client site. FIG. 1 shows a preferred three tier architecture wherein the user interface 10 manages presentation of the information, the application logic

database in steps 24, 26, 28, and 30. FIG. 3 illustrates an example of a text file where the data is delimited by bars. Database managers will recognize that such a delineated text file can be easily formatted for inputting into the database program upon which the purchase history database system is built.

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With reference again to FIG. 2, a user interested in negotiating the sale/purchase of an item implements the system by submitting a query for the item of interest into the logic program of the system 32. FIG. 4 shows an exemplary network user screen for logging onto the system. With
10 reference again to FIG. 2, the logic program then interfaces with the purchase history database to retrieve the current sets of sales contract terms stored for the item 34. The logic program then calculates a fairness indicator for the queried item by analyzing the purchase history database 36. The fairness indicator is then communicated 38 to the user in a context
15 sufficient so that the user can comparatively determine the fairness of his offer for the item. Examples of a suitable fairness indicator include a single value such as the average price paid per unit, a highest price paid value, a lowest price paid value, and a simple or complex graphical display or formula.

20 With still further reference to FIG. 2, the user determines the fairness of an offer presented for analysis by comparing the offer to the fairness indicator 40. Like the sales contract terms, the offer must identify the item, a price, and a quantity. After the fairness of the offer is determined, the user may decide to modify his offer 42 or extend the offer in a procurement
25 negotiation 44.

FIG. 5 is a copy of a user screen provided in a theoretical example. In this example, the user's query is for an item having a vendor part number of 40757. In this example, six sets of sales contract terms are retrieved from the purchase history database. It can be seen that the fairness



these culled, or hidden, sets of sales contract terms are not used in calculating the fairness indicator. Other such class specific comparisons may be, for example, geographically limited or date limited. An insightful "procurement quotient" may be obtained through the present method by
5 comparing the offer against a fairness indicator calculated as a function of the sets of sales contract terms falling within a particular class, with company size being the preferred comparison class.

In the drawings, examples, and specification, there have been disclosed typical preferred embodiments of the invention and, although
10 specific terms are employed, they are used in a generic and descriptive sense only and not for purposes of limitation, the scope of the invention being set forth in the following claims.

Claims

1. A method for using a computer system to determine the fairness of an offer for an item, said method comprising:

5 providing a database program adapted for storing multiple sets of data;

building a purchase history database for at least one item by inputting a plurality of sets of sales contract terms controlling a plurality of previous purchases of the item by a group of previous buyers into the database program, each of the plurality of sets of sales contract terms
10 controlling one of the plurality of purchases made by one member of the group of previous buyers, each of the plurality of sets of sales contract terms including an item identifier, a price paid, and a quantity bought;

providing a logic program adapted for interfacing with the database program and analyzing the purchase history database;

15 calculating a fairness indicator for the item by analyzing the purchase history database using the logic program; and

determining the fairness of an offer by comparing the offer to the fairness indicator, the offer including an item identifier, a price and a quantity.

20

2. The method of claim 1 wherein said step of building a purchase history database is a repetitive step wherein additional sets of sales contract terms controlling previous purchases of the item are periodically added into the purchase history database.

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3. The method of claim 2 further including a step of data filtering by verifying the accuracy of each additional set of sales contract terms prior to adding the additional set of sales contract terms into the purchase history database.

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11. The method of claim 1 wherein said step of determining the fairness of the offer is conducted prior to extending the offer in a sales negotiation.

12. The method of claim 1 wherein the offer is an offer to buy the item.

5

13. The method of claim 1 wherein the fairness indicator is calculated as a function of the sets of sales contract terms negotiated by previous buyers representing similar size companies.

10 14. The method of claim 1 wherein the computer system is a network system wherein the purchase history database and the logic program are located on a host site connected to at least one user site, the logic program being adapted for communication with the user site.

15 15. A business method for providing a user with a useful indicator of the fairness of a offer for an item, comprising:

operating a computer system including a purchase history database, a logic program, and a user interface, wherein the database comprises a plurality of sets of sales contract terms controlling a plurality of previous
20 purchases of an item by a group of previous buyers, wherein the logic program is adapted for calculating a fairness indicator correlating to the plurality of sets of sales contract terms by analyzing the plurality of sets of sales contract terms, and wherein the user interface is adapted for communicating the fairness indicator to a user in a context sufficient so that
25 the user can comparatively determine the fairness of an offer for the item.

16. The method of claim 15 wherein said operating includes repetitively adding additional sets of sales contract terms controlling previous purchases of the item into the purchase history database.

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17. The method of claim 15 further wherein each of the plurality of sets of sales contract terms is provided by way of the previous buyer correlating thereto.

5 18. A computerized business method for determining the fairness of a purchase of an item relative to previous purchases of the item, comprising: comparing an offer for an item to a fairness indicator determined by statistically analyzing a plurality of sets of sales contract terms controlling a plurality of previous purchases of the item by a group of previous buyers,
10 each of the sets of sales contract terms controlling a previous purchase.

19. The method of claim 18 further including adding additional sets of sales contract terms controlling previous purchases of the item to the plurality of sets of sales contract terms prior to determining the fairness
15 indicator.

20. The method of claim 18 further wherein each of the plurality of sets of sales contract terms is provided by way of the previous buyer correlating thereto.

20

ABSTRACT OF THE DISCLOSURE

Disclosed herein is a computerized business method for determining the fairness of a purchase of an item relative to previous purchases of the item by other buyers. The method comprises comparing an offer for an item to a
5 fairness indicator determined through analyses of a plurality of sets of sales contract terms controlling a plurality of previous purchases of the item by a group of previous buyers, with each of the sets of sales contract terms controlling a previous purchase.

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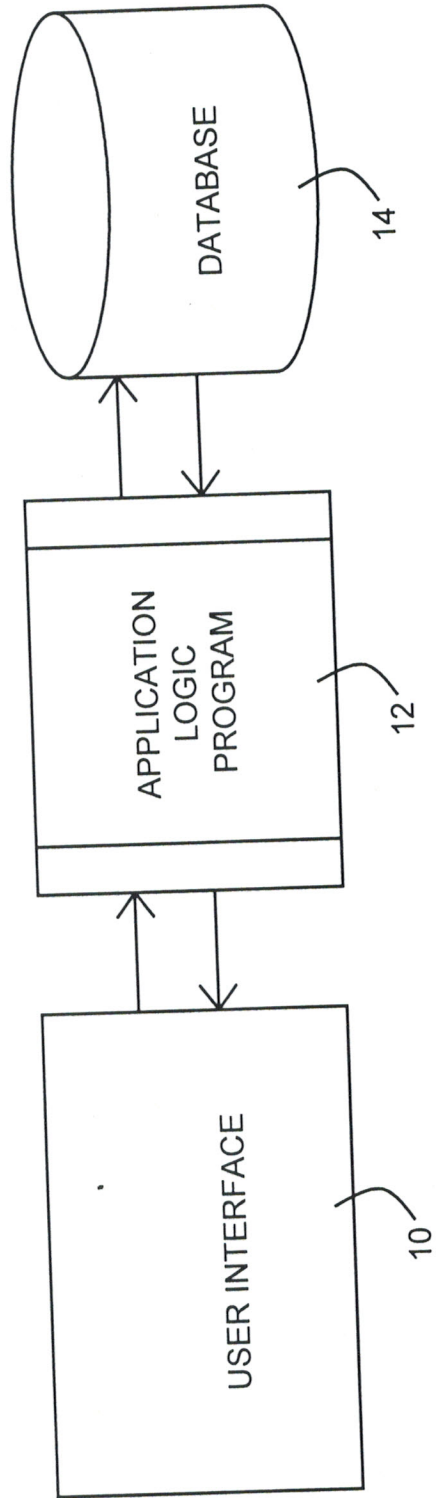


FIG. 1

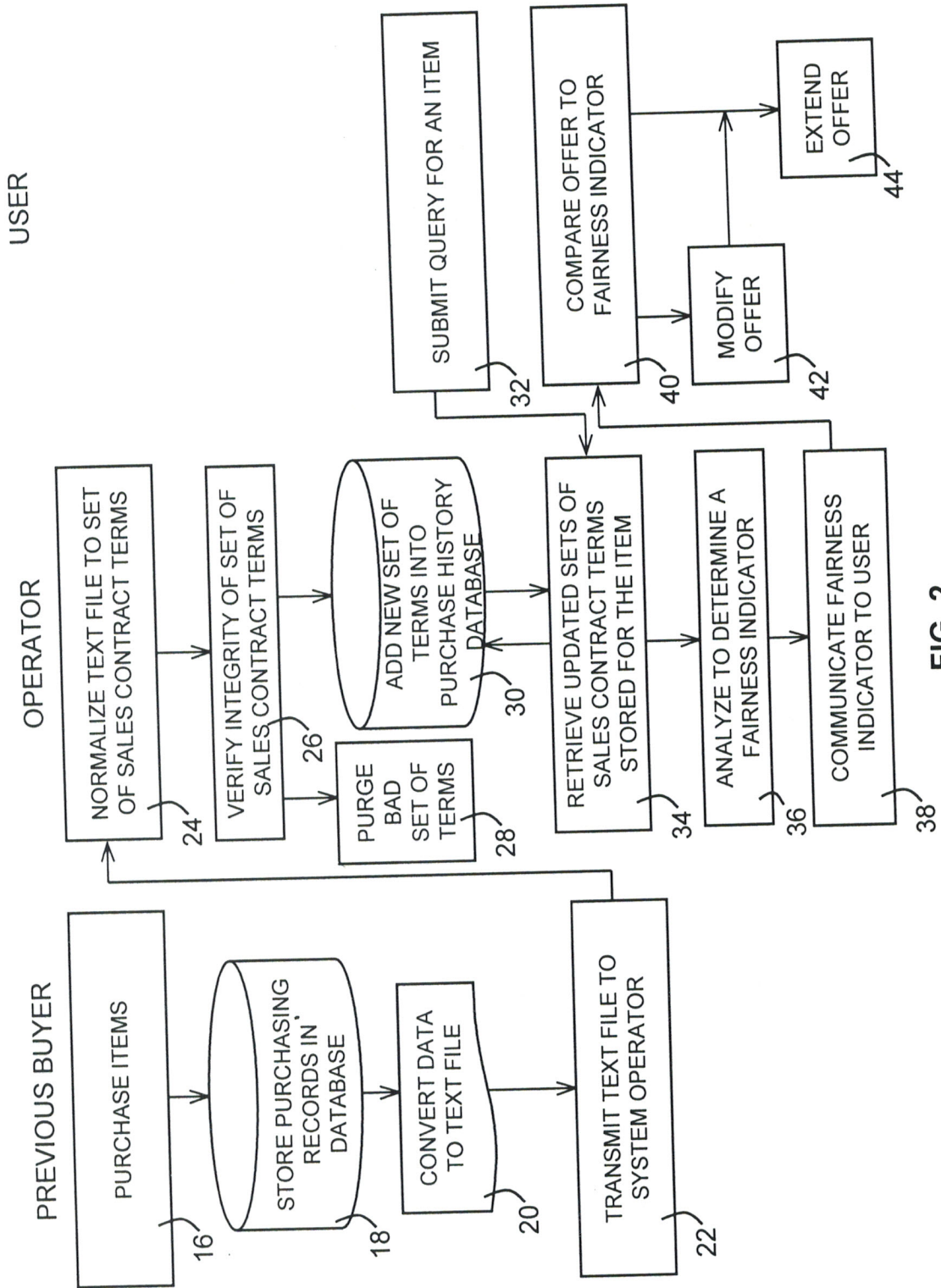


FIG. 2

PROCUREMENT NEGOTIATION METHOD

Barry T. Deaderick, Jr. and Kent L. Ervin

Docket No. DEA08011

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BUYERSITE INHOUSE INHOUSENAME UOM LASTPARTCOST MFG MFGPTNUMBER VDR VDRPRTNUMBER QTY ORDERDATE
SALT LAKE CITY A2243008004 FAIRING CENTURY EA 228.35 FREIGHTLINER A22-43008-004 FREIGHTLINER A22-43008-004 102 1/1/01
SALT LAKE CITY *66912*1B ADJUSTMENT SCREW WATER PUMP EA 23.08 FREIGHTLINER OF UTAH *66912*1B 1/1/1/99
SALT LAKE CITY 7520 TORQUE ARM 7/8 EA 22.41 UTILITY TRAILER SALES OF UTAH INC. 7520 1/1/1/99
SALT LAKE CITY 01-24196-015 BELT A/C M-11 EA 27.41 FREIGHTLINER OF UTAH 01-24196-015 1/1/1/99
SALT LAKE CITY 02-12306-000 PAD CLUTCH PEDAL EA 10.89 FREIGHTLINER OF UTAH 02-12306-000 1/1/1/99
SALT LAKE CITY 417123002 EXHAUST TUBE CENTURY EA 63.32 FREIGHTLINER OF UTAH 04-17123-002 1/1/1/99
SALT LAKE CITY 516371000 ROD RADIATOR CENTURY EA 35.05 FREIGHTLINER 05-16371-000 FREIGHTLINER 05-16371-000 1/1/1/99
SALT LAKE CITY 05-17063-002 LINE HEATER EA 52.43 FREIGHTLINER 05-17063-002 FREIGHTLINER OF UTAH 05-17063-002 1/1/1/99
SALT LAKE CITY 05-17064-002 LINE HEATER EA 52.43 FREIGHTLINER 05-17064-002 FREIGHTLINER OF UTAH 05-17064-002 1/1/1/99
SALT LAKE CITY 6100735 RAIL NOSE WABASH UPPER EA 83.99 WABASH OF UTAH 2240 6100735 1/1/1/99
SALT LAKE CITY 00117800 SOLENOID FUEL CARRIER EA 90.06 CARRIER TRANSICOLD OF UTAH 10-01178-00 1/1/1/99

FIG. 3

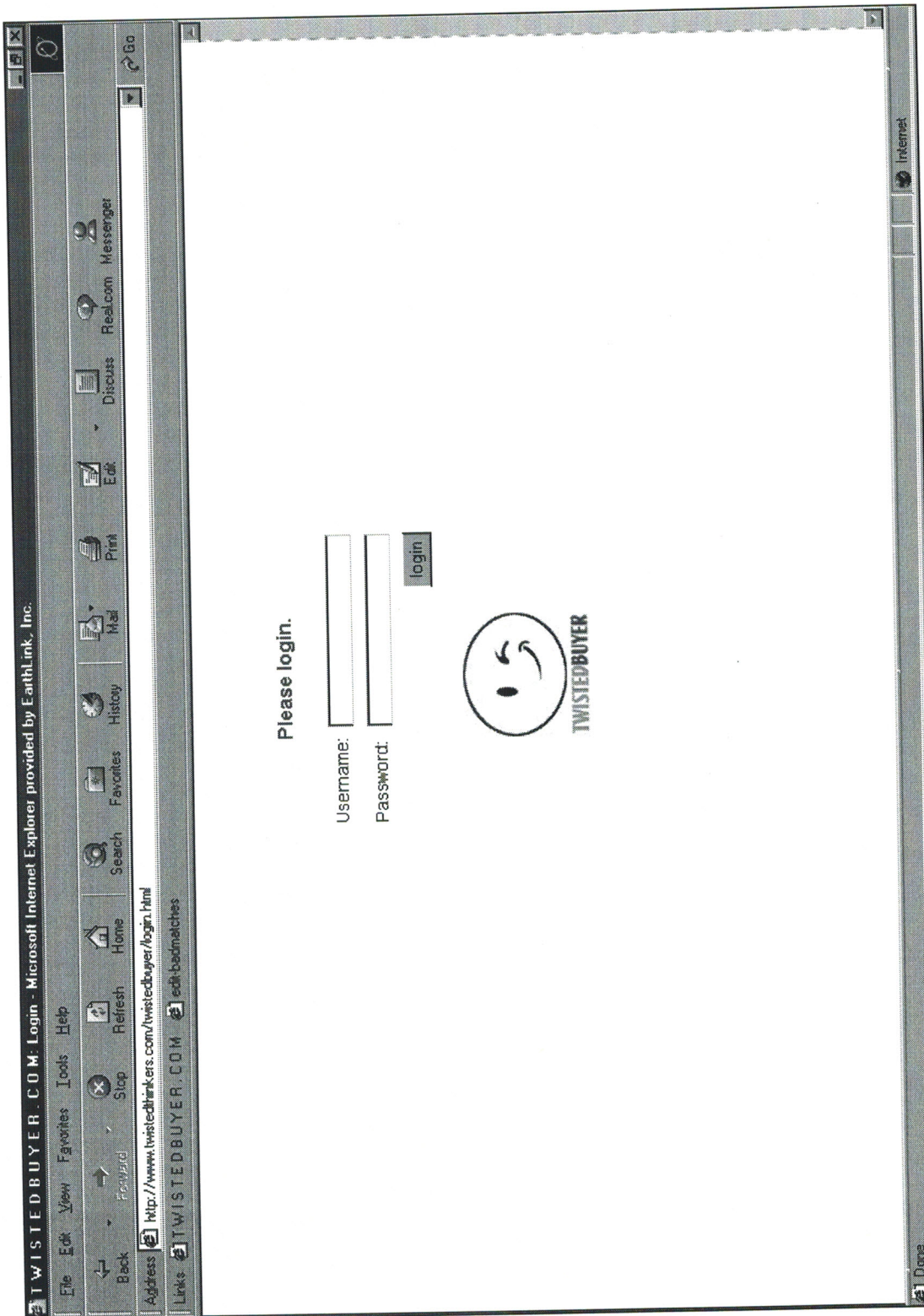


FIG. 4

TWISTEDBUYER

Business Impact
 Twistedbuyer completely transforms the purchasing process, giving buyers the absolute lowest price attainable for any part in the database.

Check an entire purchase order
 Under development Browse

Check an individual part number
 40757

Matches: Exact only C. All
 Search: Quick Complete

DATA THAT SLASHES PROCUREMENT COSTS
25-40%

Results 6 Highest \$20.98 Lowest \$13.38 Savings: 36% TWISTEDBUYER

Sort list by clicking column headings

Internal Desc.	Manufacturer	MFG Part #	Vendor	Vendor Part #	Cost/UOM	Qty	Ignore?
RH TAIL LITE BOX	STRICK	40757	NORTHEAST GREAT-DANE FAX 908-359-9528	40757	13.38/EA	9	<input type="checkbox"/>
RH TAIL LITE BOX	N/A	N/A	OHIO TRANSPORT	40757	17.15/EA	14	<input type="checkbox"/>
RH TAIL LITE BOX	N/A	N/A	SKINNER DIESEL SERVICES	40757	18.33/EA	6	<input checked="" type="checkbox"/>
RH TAIL LITE BOX	N/A	N/A	SOUTHWEST INTERNATIONAL	40757	18.56/EA	16	<input type="checkbox"/>
RH TAIL LITE BOX	N/A	N/A	COMMERCIAL TRUCK	40757	19.85/EA	1	<input type="checkbox"/>

FIG. 5

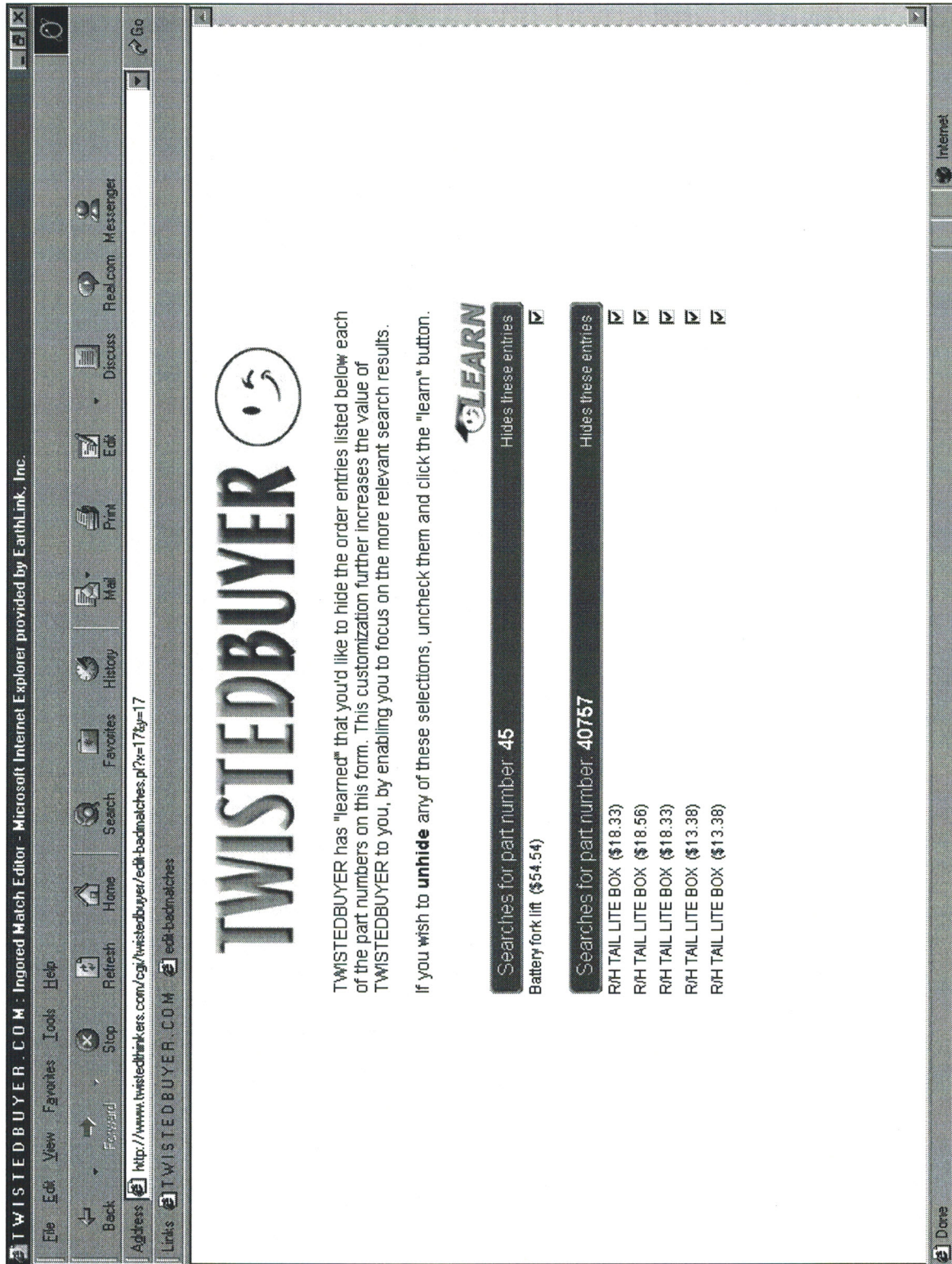


FIG. 6