# PCT

(30) Priority Data:

# WORLD INTELLECTUAL PROPERTY ORGANIZATION International Bureau



# INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 7:

G06F

(11) International Publication Number: WO 00/43850

(43) International Publication Date: 27 July 2000 (27.07.00)

(21) International Application Number: PCT/US00/01401
 (22) International Filing Date: 20 January 2000 (20.01.00)

09/234,348 20 January 1999 (20.01.99) US

(71)(72) Applicant and Inventor: CASSIDY, Patrick [CA/US]; 103 Parkrise Court, Apex, NC 27502 (US).

(72) Inventors: EVANS, James; 104 Tapestry Terrace, Cary, NC 27511 (US). VROOME, Kevin; 425 Summit Lake Drive, Apex, NC 27502 (US). HILL, Byer; 3304 Glen Royal Road, Raleigh, NC 27612 (US). HUNTER, Mark; 3304 Glen Royal Road, Raleigh, NC 27612 (US). PAPA, John; 3304 Glen Royal Road, Raleigh, NC 27612 (US).

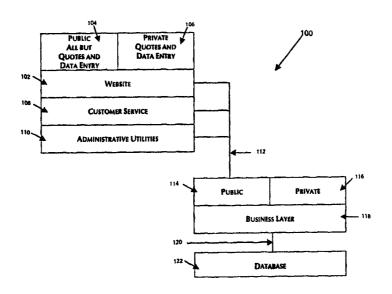
(74) Agent: HULTQUIST, Steven, J.; Intellectual Property/Technology Law, P.O. Box 14329, Research Triangle Park, NC 27709 (US).

(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

#### **Published**

Without international search report and to be republished upon receipt of that report.

(54) Title: INTERNET-BASED ON-LINE COMPARISON SHOPPING SYSTEM AND METHOD OF INTERACTIVE PURCHASE AND SALE OF PRODUCTS



#### (57) Abstract

A searchable database comprising a multiplicity of tables including an attributes table and a values table for a multiplicity of target search items constructed and arranged so that selection of values for one or more target search item attributes yields an attribute-value construct specifying a particular one of said target search items and precluding an indeterminate search result. Such database may be employed in an online comparison shopping system comprising a database containing product information of multiple vendors, manufacturers and/or products and a user interface generating a virtual shopping cart, and constructed and arranged to enable a user to selectively aggregate an order in said virtual shopping cart, comprising products represented in said database, and means for electronically disaggregating said order to generate vendor-specific orders to respective vendors.

# FOR THE PURPOSES OF INFORMATION ONLY

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

AL	Albania	ES	Spain	LS	Lesotho	SI	Slovenia
AM	Armenia	FI	Finland	LT	Lithuania	SK	Slovakia
ΑT	Austria	FR	France	LU	Luxembourg	SN	Senegal
AU	Australia	GA	Gabon	LV	Latvia	SZ	Swaziland
AZ	Azerbaijan	GB	United Kingdom	MC	Monaco	TD	Chad
BA	Bosnia and Herzegovina	GE	Georgia	MD	Republic of Moldova	TG	Togo
BB	Barbados	GH	Ghana	MG	Madagascar	TJ	Tajikistan
BE	Belgium	GN	Guinea	MK	The former Yugoslav	TM	Turkmenistan
BF	Burkina Faso	GR	Greece		Republic of Macedonia	TR	Turkey
BG	Bulgaria	HU	Hungary	ML	Mali	TT	Trinidad and Tobago
BJ	Benin	IE	Ireland	MN	Mongolia	UA	Ukraine
BR	Brazil	IL	Israel	MR	Mauritania	UG	Uganda
BY	Belarus	IS	Iceland	MW	Malawi	US	United States of America
CA	Canada	IT	Italy	MX	Mexico	UZ	Uzbekistan
CF	Central African Republic	JP	Japan	NE	Niger	VN	Viet Nam
CG	Congo	KE	Kenya	NL	Netherlands	YU	Yugoslavia
CH	Switzerland	KG	Kyrgyzstan	NO	Norway	ZW	Zimbabwe
CI	Côte d'Ivoire	KP	Democratic People's	NZ	New Zealand		
CM	Cameroon		Republic of Korea	PL	Poland		
CN	China	KR	Republic of Korea	PT	Portugal		
CU	Cuba	KZ	Kazakstan	RO	Romania		
CZ	Czech Republic	LC	Saint Lucia	RU	Russian Federation		
DE	Germany	LI	Liechtenstein	SD	Sudan		
DK	Denmark	LK	Sri Lanka	SE	Sweden		
EE	Estonia	LR	Liberia	SG	Singapore		

# INTERNET-BASED ON-LINE COMPARISON SHOPPING SYSTEM AND METHOD OF INTERACTIVE PURCHASE AND SALE OF PRODUCTS

#### DESCRIPTION

#### Field of the Invention

The present invention relates to a computer network-based on-line comparison shopping system and method of interactive purchase and sale of products, as well as component subsystems, modules and aspects of such system, and constituent approaches and methodological aspects associated with such method of interactive purchase and sale of products.

# **Description of the Related Art**

With the proliferation of networked computer systems, including the World Wide Web (Internet), there has been a corresponding evolution of and interest in electronic commerce.

Electronic commerce (or e-commerce, as it is sometimes called) involves on-line accessing of information about purveyed goods and services, and the associated capability to electronically effectuate a transaction involving selected goods and/or services (collectively referred to herein as "products"). Although this medium of electronic transactions is still in its infancy, the development of encryption and other security features has propelled this form of commerce from a small-scale emergence to an ever-increasing level of prominence in industrial transactions as well as consumer shopping and on-line purchases.

The art therefore has developed a variety of forms of transactional sites for on-line purchase and sale transactions, and these continue to evolve. Aside from obvious security requirements, there is a need for purveyed products and services to be quickly and efficiently assessed by the prospective purchaser for decision-making purposes, and for the transaction to be similarly quickly and efficiently effectuated once a decision has been made. Further, there is a need for

information for the making of a purchase decision based on comparison of the purveyed products, as to their features, such as overall price, unit price, volume discounts, quality, and/or source. Furthermore, there is a need for enabling consumers to view such information in a readily assimilated format, such as a grid or matrix format that may be proprietary to the shopping site. Additionally, there is a need of a prospective purchaser for access to his or her prior purchase history, to facilitate repeat purchases or simplification of the decisional processes involved in a current purchase transaction.

It accordingly is an object of the present invention to provide a computer network-based on-line comparison shopping system and method of interactive purchase and sale of products, that meet the aforementioned needs and objectives.

Relative to the system and methodology of the present invention, art relevant to the invention includes the following.

U.S. Patent 5,842,178 issued November 24, 1998 to Joseph Giovannoli describes a computerized quotation system and method in which buyers formulate requests for quotation and transmit them to a computerized network which broadcasts the request for quotation to prospective sellers based on filter conditions set by the buyer and/or seller and/or computer network operator. The filter-compatible sellers' responses are communicated to the prospective buyer either over the communications network or via other communication means.

U.S. Patent 5,692,132 issued November 25, 1997 to Edward J. Hogan describes a commercial transaction system for interaction by a user of a personal computer with Internet-based merchant computers to conduct cashless transactions, in which the amount of the transaction is deducted from a balance and the balance can be reset.

U.S. Patent 5,757,917, issued May 26, 1998 to Marshall T. Rose, et al. discloses a network-based commercial transaction system for communication between qualified user-sellers and user-buyers, utilizing an authorization code and encryption to achieve secure transactions.

U.S. Patent 5,835,712, issued Nov. 10, 1998, to Fred DuFresne, discloses a system and method using a template, accessible to both client and server, for constructing Web source text. The source text includes HTML tag extensions for implementing dynamic Web environment. The tag extensions are nested and grouped to form scripts to perform specific tasks, such as state construction and on-line data arrangement. Each tag extension or script is expanded and replaced with data value to be embedded within a traditional HTML tag. A processor is employed to process templates and execute tag extensions therein, and produces pages in pure HTML form for displaying by any Web browser.

U.S. Patent 5,715,314, issued Feb. 3, 1998, to Andrew C. Payne, discloses a network-based sales system which includes at least one buyer computer for operation by a user desiring to buy a product, at least one merchant computer, and at least one payment computer. The buyer computer, the merchant computer, and the payment computer are interconnected by a computer network. The buyer computer is programmed to receive a user request for purchasing a product, and to cause a payment message to be sent to the payment computer that comprises a product identifier identifying the product. The payment computer is programmed to receive the payment message, to cause an access message to be created that comprises the product identifier and an access message authenticator based on a cryptographic key, and to cause the access message to be sent to the merchant computer. The merchant computer is programmed to receive the access message, to verify the access message authenticator to ensure that the access message

authenticator was created using the cryptographic key, and to cause the product to be sent to the user desiring to buy the product.

U.S. Patent 5,825,881, issued Oct. 20, 1998, to Bryan Colvin, Sr. teaches a system for conducting commerce over a large public network such as the Internet which facilitates communications between a merchant, a customer, and a bank or credit card processor.

Commercial on-line shopping sites having comparison shopping capability include the following Web sites: www.acses.com; www.bottomdollar.com; www.buyingguide.com; www.comparenet.com; www.consumerworld.org; www.jango.com; www.junglee.com; and www.shopfind.com.

It is another object of the present invention to provide a computer network-based on-line comparison shopping system and method of interactive purchase and sale of products, that provides comparison shopping capability via a dynamic database permitting access by a prospective purchaser to the products and/or services of a variety of vendors and products, by selecting a variety of attributes for custom shopping.

It is yet another object of the present invention to provide a searchable database and on-line shopping system comprising same, in which a search of the database yields a uniformly productively result (a definite selected result), in contrast to the state of the art database systems, such as those conventionally used for word searching, which can result in a "dead end" result (e.g., a search that has no matches, or a system request for clarification).

It is a still further object of the invention to provide a computer network-based on-line comparison shopping system and method of interactive purchase and sale of products, that

permits a prospective purchaser to construct custom order templates, optionally based on or incorporating information from prior purchase transactions, in a quick and easily effected manner.

Other objects and advantages of the invention will be more fully apparent from the ensuing disclosure and appended claims.

## **SUMMARY OF THE INVENTION**

The present invention relates generally to a computer network-based on-line comparison shopping system and method of interactive purchase and sale of products.

In one aspect, the invention relates to a searchable database comprising a multiplicity of tables including an attributes table and a values table for a multiplicity of target search items constructed and arranged so that selection of values for one or more target search item attributes yields an attribute-value construct specifying a particular one of said target search items and precluding an indeterminate search result.

Another aspect of the invention relates to an online comparison shopping system comprising: a searchable database containing product selection information for products from different sources; and a user interface operatively coupled to said database for user manipulation thereof to select product(s) based on product selection information and constructed and arranged to communicate ordering information to source(s) of selected product(s).

A further aspect of the invention relates to an online comparison shopping system comprising a database containing product information of multiple vendors, manufacturers and/or products and

a user interface generating a virtual shopping cart, and constructed and arranged to enable a user to selectively aggregate an order in said virtual shopping cart, comprising products represented in said database, and means for electronically disaggregating said order to generate vendor-specific orders to respective vendors.

Yet another aspect of the invention relates to a computer network-based on-line comparison shopping system, comprising an operational World Wide Web site having the description, content, look, feel, function, structure, architecture, operation, sensory features, aesthetic characteristics and substance of the World Wide Web site "Dental-Purchasing.com."

A further aspect of the invention relates to a method of conducting electronic commerce involving online comparison shopping comprising providing a database containing product information of multiple vendors, manufacturers and/or products, and a user interface generating a virtual shopping cart, and manipulating said user interface to selectively aggregate an order in said virtual shopping cart, comprising products represented in said database, and electronically disaggregating said order to generate vendor-specific orders to respective vendors.

In another method aspect, the invention relates to a method of constructing and populating a database with a series of standardized product descriptors which can be employed by a user to compare fungibly equivalent products from different sources to select product(s) therefrom, comprising identifying a set of attributes and establishing same in said database for said fungibly equivalent products, and establishing in said database a multiplicity of selectable values for each of said attributes wherein each of said values is independently selectable to define a unique attribute-value chain for a fungible product group.

An additional aspect of the invention relates to a comparative purchase process comprising: querying a database populated with a series of standardized product descriptors that can be employed by a user to compare fungibly equivalent products from different sources to select product(s) therefrom, wherein said database contains a set of attributes for said fungibly equivalent products and a multiplicity of selectable values for each of said attributes wherein each of said values is independently selectable to define a unique attribute-value chain for a fungible product group, wherein said query yields a attribute-value chain for a group of fungibly equivalent products; and generating a comparative selection grid comprising product information for said group of fungibly equivalent products thereby enabling the user to select a specific product from said comparative selection grid.

Another method aspect of the invention relates to a method of qualifying product data for inclusion in a database comprising: identifying a series of standardized product descriptors which characterize fungibly equivalent products from different sources; identifying a set of attributes for said fungibly equivalent products; establishing a set of selectable values for each of said attributes wherein each of said values is independently selectable to define a unique attribute-value chain for a group of fungibly equivalent products; and verifying the accuracy of attribute-value chain information as a condition for entry in the database.

Another method aspect of the invention relates to a method of interactive purchase and sale of products, comprising the steps of providing an operational World Wide Web site having the description, content, look, feel, function, structure, architecture, operation, sensory features, aesthetic characteristics and substance of the World Wide Web site "Dental-Purchasing.com," selecting products by comparison shopping to determine the products meeting a predetermined selection criterion, and placing an order at said World Wide Web site for subsequent shipment.

7

Yet another aspect of the invention relates to a computer network-based on-line comparison shopping system, comprising an operational World Wide Web site having the description, content, look, feel, function, structure, architecture, operation, sensory features, aesthetic characteristics and substance of the World Wide Web site "Dental-Purchasing.com."

The invention in another aspect relates to a method of interactive purchase and sale of products, comprising the steps of providing an operational World Wide Web site having the description, content, look, feel, function, structure, architecture, operation, sensory features, aesthetic characteristics and substance of the World Wide Web site "Dental-Purchasing.com," selecting products by comparison shopping to determine the products meeting a predetermined selection criterion, and placing an order at said World Wide Web site for subsequent shipment.

Additional aspects, features and embodiments of the invention will be more fully apparent from the ensuing disclosure and appended claims.

#### **BRIEF DESCRIPTION OF THE DRAWINGS**

Figures 1-54 are representations of screens constituting various views of a graphical user interface and reports generated by a computer program for a computer network-based on-line comparison shopping system that may be used to conduct a method of interactive purchase and sale of products, in accordance with one embodiment of the invention.

Figure 55 is a schematic representation of an on-line purchase and sale system for conducting transactions in accordance with an illustrative embodiment of the invention.

Figures 56-58 together form a schematic representation of the content of a dynamic database constructed to carry out an on-line purchase and sale transaction in accordance with the method of the invention, in one embodiment thereof.

Figures 59-70 show various screens constituting graphical user interface output of a Web site software computer program according to another aspect of the invention, deriving from a Customer Service Utility module of such software program.

Figure 71 is a schematic representation of a relational product entry procedure for existing and/or new vendors, to input product information and to ensure its quality.

Figure 72 is a relational depiction of a category creation procedure for products, as carried out to establish a database structure and populate it in such a way that products can be easily, logically and positively (no empty search or dead-end results) identified system users.

# <u>DETAILED DESCRIPTION OF THE INVENTION, AND PREFERRED</u> <u>EMBODIMENTS THEREOF</u>

While the ensuing description is directed primarily to a Web-based system, it will be recognized by those of skill in the art that the invention may be utilized by and embodied in other networks or data processing systems.

The present invention provides a computer network-based on-line comparison shopping system and method of interactive purchase and sale of products, that in one embodiment features a dynamic database of goods and/or services by attributes that facilitate shopping for the purveyed products, and which generally enables the prospective purchaser to definitively (no empty search or dead-end results) access comparative information about the goods and/or services of interest,

and permits the decisional processes and implementation of an order for the desired products to be quickly, securely and effectively achieved.

The present invention, in one aspect, utilizes a shopping cart that is selectively aggregatable and disaggregatable, in assembly of an order and subsequent order processing. By this feature, the system of the present invention achieves a capability not realized by online shopping systems of the prior art.

The system of the applicants' invention for online shopping, embodies product information of multiple vendors, manufacturers and products, thereby enabling the user to selectively aggregate an order in the virtual shopping cart across the spectrum of such vendors, manufacturers and products. Once the order has been assembled, the order is electronically disaggregated by the software to produce vendor-specific orders which are transmitted to each individual vendor whose products have been selected.

Although the invention will be illustratively described hereinafter with reference to an exemplary system for on-line shopping and purchase/sale of dental products, it will be appreciated that the invention is not thus limited, but may be applied to any goods and/or services. Accordingly, the invention as described hereinafter is depicted by way of example only, and is not to be limitingly construed, as regards the nature and scope of the present invention.

The description, content, look and feel, function, structure, architecture, operation, sensory features, aesthetic characteristics and substance of the World Wide Web site "Dental-Purchasing.com" are hereby incorporated herein in their entireties.

10

The following embodiment relates to a World Wide Web Internet site and associated computer software and hardware for the comparison and purchase of dental supplies from multiple vendors. To facilitate comparison, all products are categorized by means of a dynamically generated database, as follows. Each product is assigned a series of descriptive attributes and a value for each attribute, as set out in Table 1 below.

In this manner, an attribute-value chain is created.

Table 1
Attribute-Value Chain

Attribute	Value
Category	Anesthetic products
Anesthetic subcategory	Local anesthetic
Local anesthetic type	Lidocaine 2%
Local anesthetic vasoconstrictor	Epinephrine 1:50,000
Local anesthetic packaging	1 box of 50 1.8ml carpules

Each choice of value then can be used to determine the next applicable attribute. Each attribute can then have a potentially limitless number of values. Thus, although there is a 1:1 correspondence shown illustratively in Table 1, where each attribute is shown with a single corresponding value, it will be appreciated that many selected values may be applied to a single attribute. For example, the attribute "Category" may include not only "Anesthetic products" but also "Burs," "Liners," "Cosmetic dentistry," "Disposables," "Infection control," "Instruments," "X-ray products," etc.

11

Together, the attributes and the values form attribute-value chains that identify generic products in the database. Once a chain is formed (like the one in Table 1) a generic description based on the values of the chain is appended to the chain, e.g.,

### Lidocaine 2% local anesthetic with epinephrine 1:50,000, 1 box of 50 (1.8ml) carpules

This addition of the successive attributes and values finalizes the generic specification of a single product (denoted here as "Generic Product" or sometimes herinafter as a "DPO Product," the prefix DPO denoting a generic character of the product involved).

All of this information may, for example, be stored in a series of 4 database tables (see Figures 56-58, including an Attribute table, a Value table, a DPO Detail table (which stores the chains or attribute/value pairs), and a DPO Product table (which stores descriptions). Other meaningful information that is stored may include the date and time the product data was entered, the data entry operator who entered the product data, and a status of the product data (Active/Inactive).

At this time, Manufacturers, and Brands (if applicable) are also attached to the products. Next, this generic product data is associated with specific vendors to create a Vendor Product. Finally, quantity and pricing information is added, to produce an informational matrix, such as the matrix set out in Table 2 below.

Table 2
Search Results Grid

Vendor	Product	Manufacturer	Brand	1	5	10	20
	Code						
Carolina	CD365-5310	Novocol	Octocaine	\$12.25		\$11.75	
Dental							
Supply							
RJM	0171-05279	Novocol	Octocaine	\$12.25		\$11.45	\$10.95

Discount							
Dental					-		
RJM	0171-05281	Septodont	Lignospan	\$12.65		\$12.25	\$11.75
Discount			Forte				
Dental							
Sullivan	365-5310	Novocol	Octocaine	\$13.49	\$12.99		\$12.49
Schein							

All of this information is preferably stored in another 5 tables (see Figures 56-58), including, for example, a Vendor Product table, a Vendor table, a Brand table, a Manufacturer table, and a Price table. Additionally, the Vendor's contact information is stored in a Contact Information table, along with the contact information (telephone and fax numbers, email addresses) of the vendor, for facilitating contact of the vendor by users of the on-line system. Other meaningful data that may be stored in the system includes date and time the product information was entered, the name of the individual who entered the product information, the status of products and vendors, the location of a picture of the product (if any), a detailed product description (if any), the location of vendor's Internet home page (if any), and the vendor's commission percentage, as paid by the vendor to the on-line system operator based on the sales of the vendor's wares at the on-line Web site in operation of the on-line system.

All of the above-described tables and relationships provide the user with an on-line shopping experience, in which the prospective buyer can search the database of product-related information in a variety of ways to find a specific item of information, and in which the prospective buyer can compare, on a proprietary search results grid, the pricing for a same basic product among several different vendors, manufacturers, and brands, including transactional terms such as quantity discounts. The word "proprietary" as used herein in reference to the

search results grid refers to the fact that the database proprietor can readily conFigure the search results grid in a distinctive manner that is unique to a given Web site or application of such system.

The search mechanisms that may be embodied in and/or facilitated by the software and hardware on-line shopping system include search capabilities by:

- Category searching searching by attributes and values, utilizing suitable controls such as for example ActiveX, Java, and/or HTML controls
- Vendor searching utilizing the same controls, but limiting searches and search results to the product line of a single vendor
- Brand searching using the same controls, but limiting searches to a single brand
- Manufacturer searching using the same controls, but limiting searches to a single manufacturer
- Code searching searching in which the prospective purchaser enters the vendor's product code and obtains a comparison grid of information for the corresponding product
- Index searching searching through an alphabetical listing of the first and second level attributes to aid in finding subcategories whose parent category may not be completely evident
- Order History searching searching providing information that allows users to obtain information about items and quantities they previously ordered.

The user experience using an illustrative embodiment of the invention is now described.

When an individual user accesses the on-line shopping Web site, the user is given the option of taking a tour of the site or registering. The registration sequence involves request for response to the following queries:

Name (First, MI, Last)

Email Address

Password (user's choice)

Where'd you hear about us?

All of the foregoing information is stored, and the user is immediately emailed with an account name (LogonID) and password. Account names are formed as first initial, middle initial (if entered), last initial, and followed by a number (e.g., John Q. Customer may be assigned the account name JQC2). These suffixed numbers are sequential.

The user can then use this information to log into the on-line shopping Web site and search for products. A record is added to the LogonRecords table each time a user attempts to log into the site, and this table stores successes, failures, and the user's Internet address. The user is allocated a "virtual shopping cart." As products are found by the user, they can be added to the user's shopping cart. Shopping carts are stored in the system database in a shopping cart table. Users can add items to their cart over a period of time before placing an order. A user can leave the site, return to it at a later date, and the items will still be in their cart. This feature is termed a "persistent shopping cart" and eliminates the need for the user to keep a "shopping list" off-line.

As mentioned herinabove, the shopping cart employed in the instant invention, is of an aggregatable/disaggregatable character, meaning that the order for products is assembled by a user across the full spectrum of the database, and thus includes a multiplicity of vendors, manufacturers, products, etc. This important aspect of the applicants invention permits the

15

system proprietor to assemble at a single Web site or other cyberspace location, an extensive collection of products from a variety of manufacturers and suppliers.

This broad spectrum capability of the applicants' invention therefore permits a user to assemble an order which may involve very different and numerous products deriving from numerous independent sources, based on attribute-value chains which enable comparison shopping and selection according to the user's unique needs and requirements (by the user's selection of appropriate values for each of the selected attributes).

The system may be configured to require the user to provide a selection value for each attribute of the attribute-value chain, so that the product selection is fully specified. Alternatively, the system may be configured such that the attributes may be selected in type and number, so as to accommodate such unique needs and requirements. For example, the user may construct a very short attribute-value chain for a correspondingly less specific shopping interaction, or conversely, the user may construct a very elaborate attribute-value chain, for a correspondingly more specific (e.g., highly targeted) shopping interaction.

In operation of the system, a shopping cart can be saved as a template. Templates involve two tables, a header table that identifies the owner of the template and a description of the template, and a line table which contains the individual items stored in all templates and a reference to the header table. This feature allows a user to create lists of frequently ordered items thereby making the process of repetitive ordering very simple.

When an order is placed, the user is asked to supply additional information, including for example the user's billing address, shipping address, credit card information, credentials, etc. A total of 11 tables are used to track all of this information, in addition to the information already

gathered. These tables provide the ability to classify users as a certain type of consumer. The shopping cart then is disaggregated and the orders for the goods and/or services are transmitted electronically to the corresponding individual vendors. A copy of the order is stored in the user's order history. Order history involves 2 more tables, a header and a line table, just as with templates. The order history tracks products, quantity, price paid, date, and information regarding the order's status.

The shopping cart in operation of the system is therefore aggregated by the user through selections from grids generated by attribute-value chain searches, and then is disaggregated (electronically separated) by the system for electronic routing to the individual vendors. The individual vendors of the selected products, upon receiving the electronic order from the system for such products, then process the orders for fulfillment and shipment or delivery of products to the system user.

The online comparison shopping system of the invention therefore operates as a virtual mall for the purveyed products. A direct transactional link is established between the product supplier and the purchaser, thereby facilitating and enabling electronic commerce involving such products. The vendor therefore has an advertising and promotional forum, and hyperlinks may be embedded in the system to the vendors' home pages or other Web sites. The system proprietor, in providing the shopping forum for the vendor's products, thereby provides an outlet service to the vendor, which may be compensated by a mutually agreed compensation schedule or commission rate.

The computer program of the on-line shopping system may further comprise an administrative capability, including functional components such as a data entry module, a customer service module, and an administrative utility.

Three tables may be involved for data entry in the data entry module, to allow products to be entered, then approved, before being published to the main database of the system. Two tables products (TentativeProduct) rejected are used to track current and products (TentativeProductReject.) These tables track a Querystring (a complex representation of a Vendor Product), the name of the person who entered the product, when the product information was entered, and who rejected the product in the case of a rejection. When a product is approved, it is added to the other tables and removed from these data entry tables. A third table is used to track the rates that are paid to remote data entry staff.

Four tables are used for customer service, to track calls and staff permissions. The call tracking system tracks incoming calls as well as outgoing follow-up calls.

Six tables are used by the administrative utility for accounting/bookkeeping functions.

The structure, function and operation of an illustrative Web site computer program will now be described with reference to an illustrative sequence of graphical user interface screens that are presented to a user accessing and operating the program to conduct an on-line shopping transaction, followed by description of the shopping transaction with reference to a shematic flowsheet showing the constituent steps of such transaction, and description of a database structure that may be employed to carry out the functions and achieve the objectives of the invention.

Figures 1-54 are representations of screens constituting various views of a graphical user interface and reports generated by a computer program for a computer network-based on-line

comparison shopping system that may be used to conduct a method of interactive purchase and sale of products, in accordance with one embodiment of the invention.

In one aspect, the graphical user interface contains various text pages which are linked to other pages via a hypertex link. The links may be displayed by a browser as colored and underlined text, as a virtual button, virtual tab or other means known in the art.

The various pages of the graphical user interface allows a user to view a text document displayed on a display device connected to the user's computer and to access, retrieve and view other data objects that are linked to hypertext words or phrases in the hypertext document. The user may "click on," or select, certain words or phrases in the text that specify a link to other documents, or data objects. In this way, the user is able to navigate among data objects. The data objects may be local to the user's computer system or remotely located over a network or over the World Wide Web.

## **User Interface Module**

The system has a user interface module that is preferably programmed in a language operational in an Internet or intranet environment. For example, the applicants have programmed the user interface module in using ActiveX controls and Java languages.

Figure 1 shows an exemplary "main page" of the user interface module, including a first screen constituting a portion of a graphical user interface generated by a computer program for a computer network-based on-line comparison shopping system that may be used to conduct a method of interactive purchase and sale of products, in accordance with one embodiment of the invention. As shown by the screen, the software generating same is browser compatible, using

an Internet browser such as Microsoft Internet Explorer or Netscape Navigator, for manipulation of the interface screens and functions thereof.

The first screen 10 includes mouse-activatable function bars, including "About us," providing information about the source organization providing the software for the Web site, "How to become a supplier," providing information to prospective vendors about the criteria and procedure for representation at the Web site, and "Contact us," providing correspondence and communication information, for user contacting of the source organization. Such first screen also contains a cental region containing the text, "Click Here to Shop Now," the mouse actuation of which region moves the user to a second screen.

Thus, from the main page, the user can access other portions of the user interface module. For example, in a preferred mode, the user can access components such as the shopping, supply, service, company information, contact information or vendor information request form components of the user interface module.

The user can select the "shopping" option, which permits the user to log into the shopping portion of the user interface module. For example, selection of the shopping option can link the user to a "log in" page which contains links to a registration page for unregistered users, shopping as a guest, or logging in for registered users. The log in page can also link the user to a "forgotten passwords" page, where the user can enter his or her ordinary e-mail address to prompt the system to send the user an e-mail with the forgotten password.

Figure 3 show an exemplary "main shopping page" for the shopping portion of the user interface module. This main shopping page preferably contains a means, such as a menu bar, for linking to other portions of the graphical user interface module, such as a homepage, a shopping page,

an order history page, a templates page, a shopping cart, an edit account page, and/or a view help page.

The user can preferably select a link on the shopping main page to access to a "shopping page" which includes, for example, options permitting the user to search the database for products. Such searches may, for example, be by brand, by category, by manufacturer, by product code, by product index and/or by vendor.

Preferably at any point during the searching/shopping operation, the user can access the "shopping cart" page via a hypertext link. The shopping cart page preferably includes a variety of options for viewing and editing the shopping cart. For example, the shopping cart page preferably permits the user to recalculate quantities of items being purchased, i.e., to increase or decrease the number of any specific product being purchased. The shopping cart page may also have hypertext links that permit the user to place an order, create a template and/or empty the cart.

The user interface module also preferably contains an "edit account" page and/or menu which may be located on various pages within the user interface module, and which may, for example, contain options for editing primary contact information, billing contact information, shipping address information, credit card information, changing password, and changing control technology. As previously mentioned, the user interface module may be programmed in a variety of programming languages. The inventors have, for example, programmed the user interface module in both Java and ActiveX. The "edit account" page and/or menu preferably contains an option permitting the user to switch from the Java platform to the ActiveX platform and vice versa.

Figure 5 shows a menu of the shopping main page having the "shop" and "shopping cart" menus extended.

The shop menu contains options permitting the user to shop based on various types of searching. For example, Figure 5 shows a page which is selected when the user selects the option for a category search. The various searching mechanisms take the user through a decision tree (the "attribute value chain"), prompting the user to sequentially select values from a series of attribute categories. When the user has specified a value for each of the attributes in the attribute-value chain, the system provides the user with a means, such as a proprietary comparison grid, for comparing like products.

Figure 5 shows the beginning of the category search, i.e., at the first level of the attribute value chain, whereby the user is prompted to select a product category. When the user selects a category at the first level, the program then proceeds to prompt the user to select a value for the next attribute level of the attribute value chain. For example, Figure 6 shows a screen print out of a category search in which the user has proceeded to the fourth level. When the user has specified a value for each of the attribute categories in the attribute value chain, the system provides the user with a comparison grid of products, for example, screen prints showing portions of comparison grids resulting from category searches are displayed in Figures 7 and 8.

Unlike the databases of the prior art (e.g., word, phrase or boolean searches), the present database permits a variable and unlimited number of attributes to be assigned to each product. In other words, the length of each attribute value chain varies depending on the number of attributes necessary to fully distinguish the product from other products. The number of attributes is limited only by the practical need to enable the user to complete the search process within a reasonable time. The number of attributes within the same database can vary with each item, thus, for example, where the system is used to sell a product line, such as dental supplies,

some products, such as facial tissues may have a relatively short attribute-value chain having 4 or 5 attributes, while other products, such as drills, may have a long attribute-value chain, having a greater number of attributes.

Categorization and sub-categorization of each product in the system by means of the data entry module results in decision trees of the system of the present invention having the advantage that they guide the user through the search such that no search can fail to result in at least one product.

As previously noted, when the user has specified a value for each of the attribute categories in the attribute value chain, the system provides the user with a comparison grid of products. The columns of the grid preferably include information such as vendor, product code, manufacturer, brand and price. The system preferably has means for permitting the user to sort the grid by any of its columns. For example, the grid page can be programmed such that the user can select the title of any of the columns to sort the grid by that column. For example, the grid displayed in Figure 9 has been sorted based on the vendor column. Alternatively, for example, the user could sort on the price column to quickly ascertain which are the lowest and highest prices.

The user interface module preferably permits vendor, manufacturer or brand searches each using a search control page which is analogous to the category search page. These pages can permit the user to easily search for products carried by a specific vendor, manufactured by a specific manufacturer or which include a specific brand.

Figure 10 shows a vendor search at the first level of decision. This particular printed screen illustrates that for example, for the vendor "Action Team Medical," four categories are available at the first level of the attribute value chain. Vendor searches utilize only the vendor portion of the database while preserving the uniform results capability of the system.

Figure 11 shows a manufacturer search at the first level of decision for the manufacturer Kodak, illustrating showing the possible values at the first level of the attribute value chain, including anesthetic products and x-ray products.

In performing any of the foregoing searches, the attribute-value chain automatically takes the user through all attributes of the attribute value chain having only one possible. Thus, for example, when performing a brand search, the user preferably selects a particular brand from the brand list and the program then fills in each of the selection category criteria for that brand from the first level up to the first level at which the user has at least two choices. Figure 12 shows a brand search for Ultra Speed DF-57 where the system has selected the categories and subcategories up through the seventh level at which the user is prompted to choose between paper and vinyl.

The user can preferably access a product code search page, for example by selecting a hyperlink which links the shopping main page to the product code search page. This product code search page preferably permits the user to select a vendor from a list of vendors and to enter that vendor's product code. Searching by vendor product code preferably produces a comparison grid having the selected item highlighted followed by a list of comparable products from other vendors. An example of such a selection grid is shown in Figure 13.

The user interface module preferably permits the user to access a product index, which lists the categories and sub-categories used in the system and provides links to a search screen which permits the user to select the variable values of the attribute value chain in order to isolate the product in which the user is interested. This provides an efficient method for the user to locate various sub-categories. For example Figure 14 shows a product index for products having category/subcategory names beginning with G. The user can select the desired product from the product list to access a category search for that product, as shown in Figure 15.

The user interface module preferably includes an order history page, accessible via hyperlink from various pages of the module. The order history page displays a series of the user's previous orders and also includes any savings quotes which have been generated for the user. Savings quotes are discussed in more detail below.

The user can select an order in which the user is interested, and the system will display that order. Alternatively, the user can specify period of time in which the user is interested (e.g., by specifying a start day and an end day), to produce a list including all products that have been ordered by the user within the specified time period. An exemplary history page is shown in Figure 16. Figure 17 shows a sample order history within a specified date range.

Figure 18 shows a sample of the template page. The user interface module preferably permits users to create templates specifying any grouping of products in which the user is interested. For example, where the system is used for dental supplies, a user may wish to create a template containing all disposable ordinarily ordered by that user, for example on a monthly or quarterly basis. The user can then access the template to efficiently order disposables as needed.

The system thus permits creation of customized user templates ("custom templates") as well as providing a means for creating and displaying a list of standard templates. A list of custom templates may be displayed, for example, in a custom template frame, as shown in Figure 18, while standard templates are preferably displayed in a separate frame, such as the standard template frame shown in Figure 18. Standard templates are preferably present for all users and may, for example, include templates displaying the user's orders from the last 30, 60, 90, or 180 days, and/or the user's orders for the previous year, as shown in Figure 18. The template preferably permits the user to load the template into the user's shopping cart, to edit the template, for example by changing quantities of items ordered and/or by entirely removing items from the template. An exemplary template editing page is shown in Figure 20.

The user interface module also preferably permits the user to delete entire templates. However, it is preferred that the system permits the user to delete only custom templates and not standard templates.

Figure 19a shows a top portion of a page of the user interface module where a user has selected the load template option from the template page. Figure 19b shows a lower portion of a page of the user interface module where the user has selected the load template option.

The user interface module preferably contains a persistent shopping cart-type functionality, as well as a means for permitting a user to access and modify the shopping cart functionality of the Internet "shopping cart" systems, such as the "shopping cart" function of www.amazon.com, generally permit a user to select items for purchase, which are then electronically stored for submission to the vendor. For example, the system preferably includes a shopping cart menu which permits the operator to view or edit the shopping cart, to recalculate the shopping cart, to place an order, to save the shopping cart as a template, and/or to empty the shopping cart. One important feature of the applicants shopping cart program is that the program preferably stores shopping cart entries into a database which is not located on the user's computer. This permits the user to sign off without losing the products of the shopping cart and signing back on later to add further products to, and/or remove products from, the shopping cart. As used herein, the term "persistent" in reference to the shopping cart means that the shopping cart is selectively retainable by the system, after a given transaction or interaction has been concluded. Such persistency permits the user to terminate the shopping interaction prior to ordering and to maintain the shopping cart in the state it existed at the time of termination, for subsequent resumption of the shopping interaction. Since the shopping cart persists in the database records of the system, the shopping cart can be accessed by a user on a different workstation and/or at a different location, without loss of the shopping cart contents from the

WO 00/43850 PCT/US00/01401

prior interaction. This is on novel feature of the applicants' invention, which distinguishes it from prior art systems which store the contents of the shopping cart on the user's computer, so that it is not accessible from a different computer.

Figure 21 shows a preferred shopping cart page having various items selected. The shopping cart grid will automatically recalculate the price term in the grid as a user changes the quantity information. Thus, for example, Figure 22 shows a circumstance which the user has changed the quantity of the third item of Figure 21 to zero. The system has changed the total price for that item to zero and the total price for the contents of the shopping cart has been correspondingly reduced by \$13.25.

The system preferably permits the user to recalculate the grid by selecting a "recalculate" option which will remove the zeroed items from the grid. Figure 23 shows a screen print of the shopping cart of Figure 22 after the "recalculate" option has been selected.

The system also permits the user to place an order based on the contents of the shopping cart.

The ordering is discussed in more detail below.

The shopping cart page also permits the user to easily empty the shopping cart by selecting an appropriate hypertext link.

The shopping cart page also preferably permits the user to "zero" all quantities in the shopping cart by selecting an appropriate option, such as the "zero qty" option shown in Figure 23. This functional is particularly useful, for example, when a user has loaded a shopping cart from a template or order history and wishes to select only a few items for reorder.

Figure 23a shows a variation of the shopping cart interface of the type illustrated in Figure 23. The shopping cart of Figure 23a shows the History column as including the link "Purchase"

WO 00/43850 PCT/US00/01401

History" in each row. By selecting "Purchase History" in a given row, a pop-up window is generated showing the user's order history for the corresponding product. The order history is shown at various time intervals (30 days, 90 days, 180 days, last year), as well as cumulatively ("All Orders"), with respect to quantity and total cost; the order history is also set out with respect to each order, showing its order number, date/time, quantity, unit price, and total cost.

The system also preferably includes a means for permitting the system operator to create quotes for users. Thus, for example, a potential user can mail a copy of an invoice to the operator of the system who can then use the system to create a quote comparing the prices paid by the potential user and the prices the user could have obtained by using the system. The savings quote entry page preferably contains a grid such as is shown in Figure 24. The system also preferably contains a means for printing the quote and/or e-mailing the quote to user. The e-mail sent by the system preferably contains an attachment file which details the quote, as illustrated in Figure 25. The system also preferably stores a copy of that quote in the users order history, which is accessible by the user, for example as shown for example in Figure 26.

Thus, for example, once the user selects the "save-as template" option, a "save template" screen, such as the screen displayed in Figure 27, is displayed, which permits the template to be assigned a name and then saved. The template can then be accessed by the user, for example, via a custom template list, as shown in Figure 28.

The system also preferably permits the user to edit various account information, such as primary contact information, billing contact information, shipping information, credit card information, and also preferably permits the user to change his or her password.

Figure 29 shows an exemplary primary contact maintenance screen.

Figure 30 shows an exemplary billing contact maintenance screen.

Figure 31 shows an exemplary shipping address maintenance screen. The shipping address maintenance screen preferably permits the user to enter multiple shipping addresses as well as the ability to toggle between those addresses, for example, by selecting the "previous" or "next" options as shown in Figure 310.

Figure 32 shows an exemplary credit card information maintenance page.

Figure 33 shows an exemplary password maintenance page.

Figure 34 shows an exemplary "change control software" page which permits the user to change the platform software in which the system is run. Thus, for example, the user can switch between the system as programmed in ActiveX and the system as programmed in Java.

The system also preferably comprises a "help" function. Selection of the help option preferably brings up a context-sensitive help page which provides the user with information, such as helpful hints concerning the feature from which the help page is accessed. An exemplary help page is shown in Figure 35.

The system contains a means for using the shopping cart, as described more fully above, to place an order. The shopping cart page preferably has a means, such as a "place order" button, to access a purchase order screen. The purchase order screen preferably contains fields the user to change the shipping address, as shown in Figure 36a. The user can preferably select one of the addresses, which are preferably maintained from a shipping maintenance page as discussed above.

Figure 36b shows the second part of a purchase order page, showing a grid identifying the products from the shopping cart, as well as their prices. The grid also preferably includes a substitution option which permits the user to specify whether or not the user is willing to accept substituted products where the product as specifically ordered is not available. An exemplary substitution option is shown in Figure 36b. The page preferably defaults to a "no to all" status and preferably has a "yes to all" function which permits the user to instantly select "yes" in all substitution fields.

The purchase order page also preferably has an "order" function which actually sends the order, as well as a "search again" function which permits the user to reenter the searching phase of the process and a "cancel order" function which cancels the order.

The order function preferably causes the system to display an order confirmation page which preferably displays the details of the order, as well as providing the user with an order confirmation number, as shown in Figure 37. The order function is also preferably programmed to cause the system to send an e-mail to the user detailing the order and the order confirmation number. An exemplary e-mail is displayed in Figure 38.

The user interface module also preferably contains a "shop as a guest" function which permits a non-registered user to explore the system but does not allow the actual placement of orders and omits pertinent information that would permit the non-registered user to use the system to find the cheapest prices and then order directly from the vendor. The "shop as a guest" function is designed to demonstrate the qualities of the site to potential users.

The user interface module also contains a "become a member" page which permits prospective users to enter information necessary for creating an account, for example, as shown in Figure 39. The system is also preferably programmed to prompt a user for information which was omitted

from the original member form. This prompting preferably occurs when the user attempts to make his or her first order, and preferably includes all information which is normally found in the "edit account" function.

The system also preferably contains a "how to become a supplier" option, which is preferably located on the main page and permits an unregistered vendor to access a vendor registration form. Once the vendor registers, the system permits the vendor to use the site to determine how it operates but preferably does not permit the vendor to place orders. The system also has a means for sending an e-mail containing the vendor registration information to the operator's sales and marketing department to permit further follow-up.

#### **Data Entry Module**

The Web site also contains a data entry module. The data entry module allows for categorization of products (or services) by a series of selected or created attributes and values. Attributes for products (or services) include properties such as color, size, packaging, dosage, material, etc. Values are specifications for attributes such as blue, large, package of 10, twenty-five milligrams, stainless steel, etc. Figure 41 shows the main page of the data entry module. The data entry module preferably prompts the user to select from a series of pre-existing attributes and values in order to develop a structure of subcategorization that fully embodies the product, and which results in a generic (ex: no manufacturer or brand) description for the product. At any point, the user can select to enter a new value option for a given attribute in order to create a new generic product.

The user may initially select a product structure either by selecting existing structures (existing attributes and/or values) or creating a new structure (new attributes and/or values) or selecting all structure from a product that already exists.

WO 00/43850 PCT/US00/01401

To select a structure from a generic product that already exists the specifications for a product can be entered based on the set of attributes and values of an existing product in the database. The data entry module is preferably programmed to permit the user to link to a vendor information pop-up window where the user can enter information relating to the product's vendor, such as the vendor name as well as the vendor code, as shown in Figure 43. Once the user has entered the vendor name and vendor code, the data entry module preferably displays a screen containing all attributes of the specified item, such as the screen shown in Figure 44. Then manufacturer, brand, and vendor can be added to complete the process as described subsequently.

If all the attributes and values of a new product match a product which is in the database, the system preferably prompts the operator that the product is already in the database and asks the operator whether he or she would like to add another product having the same description to the database.

Next, the operator is preferably asked to either enter or verify the description for the product. If the product is an existing product, the user is preferably asked to verify the description for the product, as shown in Figure 45.

Next the user is preferably prompted by the data entry module to enter a manufacturer. The data entry module is preferably programmed to permit the user to specify an existing manufacturer, to add a new manufacturer or to indicate that the product has no manufacturer or that the manufacturer is undetermined, as shown in Figure 46.

The data entry module then may prompt the operator to enter the brand of the product and has the option to select an existing brand, to enter a new brand, or to indicate that the product has no brand, or that the brand is undetermined, as shown in Figure 47.

Finally, the user is asked to specify the vendor for the product, the vendor's product code, as well as the pricing and quantity information.

Next, the program may display a screen containing all the information which as been entered and prompt the user to verify the information, as shown in Figure 49.

Once all necessary information relating to the product has been added, the product is preferably added to the tentative product table to await verification. The product stays in the tentative product table until it has been approved. Once the product is approved, it is then admitted into the main database. The tentative product approval process preferably operates such that a single user cannot approve products which that user has entered. This mechanism improves the accuracy of the process by ensuring that more than one person has the opportunity to review each group of information prior to entry into the main database. Figure 50 shows a picture of a product and the tentative product table.

### Creating New Structure or New Attribute Value Chains

The pop-up menu for adding a new value to the database is shown in Figure 51. After adding a new value, the user has the option of selecting an existing attribute from the next category. to determining which attribute will follow in the chain. The user can also enter a new attribute at any point to create a branch in the attribute value chain or can indicate that the attribute value chain has ended. A preferred pop-up for entering a new value is illustrated in Figure 52. This data entry system can be utilized to categorize and correlate virtually any products or services the underlying structure and functionality being modular and replicable.

#### The Administration Utility

The system preferably contains an administration utility which interfaces with the database and

with the other utilities. The administration utility preferably has the following basic features: an

account maintenance feature, a reports maintenance feature, a vendor maintenance feature, a

vendor product maintenance feature and a voice maintenance feature.

The account maintenance feature permits the system operator to edit user accounts and contact

information.

The reports maintenance feature preferably contains a variety data entry reports which show

which operator entered, or how many products an operator entered over a specified time period.

The vendor maintenance aspect permits the operator to add new vendors to the system, as well

as the addition of information concerning the contacts and commission information for the

particular vendor. Vendors can preferably be deleted or disabled and their product availability

can be tagged as orderable, non-orderable, and visible or non-visible to the users. A disabled

vendor preferably remains in the database but invisible to the user.

The vendor product maintenance section permits the updating of vendor pricing and quantity

information.

The invoice maintenance form permits the creation of invoices that will be sent to the vendors.

Preferred information includes vendor information, invoice number, from date and to date.

Figure 53 shows a sample data entry report.

Figure 54 shows a sample invoice.

34

Figure 55 is a schematic representation of an on-line purchase and sale system 100 for conducting transactions in accordance with an illustrative embodiment of the invention.

The system 100 includes a Web site 102 having a public interface 104 that includes all operative functional characteristics except the quotes function and the data entry function. The quotes function and data entry function are contained in the private interface 106 associated with the Web site 102.

The Web site 102 is functionally linked by the software architecture to a customer service module 108 as well as to an administrative module 110.

The Web site 102, customer service module 108 and administrative module 110 together are linked by software code linkage (shown representationally by line 112 in Figure 55) to the business module 118 by public interface 114. The public interface 114 interrelates with the private interface 116 (interface 116 being constituted by the underlying software code that interacts directly with the database 122) and the business module 118 is in turn functionally linked by software code linkage (shown representationally in Figure 55 by line 120) to the database 122.

Figures 56-58 together constitute a schematic representation of the content of a dynamic database constructed to carry out an on-line purchase and sale transaction in accordance with the method of the invention, in one embodiment thereof.

In the database structure shown in Figures 56-58, the presence of an empty diamond ( $\square$ ) denotes the source of the information in the field, while the presence of a filled circle ( $\bullet$ ) denotes the connection of the field value in the table with another table. The designation "(FK)" identifies a

foreign key status of the information in the specific table, meaning that the specific field involved is referencing a primary index of another table.

It will therefore be seen that the database structure in Figures 56-58 is constructed of a number of tables. In the drawings of Figures 56-58, the tables are identified by a table name above the solid line box denoting the table and its contents. The contents of the respective tables are arranged in consecutive fields as shown.

As shown in Figure 56, the database includes an Order Header table that includes an OrderHeader ID field providing an indentifier for the order, and fields "Created On" to provide the date of the order, "Sales Tax" to identify the applicable state sales tax for the order transaction, "Shipping" to identify the shipping charges for the order transaction, "Total Amount" to identify the cost of the order, "LogonID (FK)" to specify the individual and/or group placing the order, "Quote Only" to designate the quotation character of the shopping basket contents in a non-purchase interaction, "All Commissions Paid" to denote the commission payment status of the transaction, "All Email Sent" to verify that electronic communications with the ordering party have been completed, and "Ship\_ContactInfoID" to provide a number of the shipping documents accompanying the ordered of goods when shipped to the purchaser.

The database includes a Credit Card Type table containing fields for "CreditCard Type ID" to provide an identifier for the purchaser, and "Description" to specify the particulars of the credit account.

The database also includes a Consumer Type table containing fields for "Consumer TypeID" to identify the type of purchaser (e.g., individual practitioner, dental group, dental teaching hospital, etc.), and "Description" and "Dentist" fields providing the particulars for the purchaser.

The "CreditCard Type" table is operatively linked to the "CreditCardInfo" table which includes fields for "CreditCard InfoID" to provide an identifier for the purchaser, "CreditCardTypeID (FK)" to specify the brand of credit account (e.g., MasterCard, VISA, American Express card, etc.), "Number" to provide the account number for the purchaser's credit account, and "Expiration Date" to provide the final date of the active account.

The "Consumer Type" table and the "CreditCardInfo" table are each interlinked with a "Consumer" table containing a "LogonID (FK)" providing the purchaser's identification, "ContactInfoID (FK)" to specify the contact person at the purchaser's organization, "CreditCardInfoID (FK)" to provide an identifier for the credit account of the purchaser, "Bill\_ContactInfoID (FK)" to provide the name of the contact person of the purchaser organization for billing purposes, "Ship\_ContactInfoID" to correspondingly specify the name of the contact person in the purchaser organization for shipping purposes in respect of the ordered goods and/or services, and "DentistInfoID (FK)" providing the identifier information for the purchaser's dental professionals.

The "Consumer LogonID (FK)" register is in turn interconnected with the "DentistInfoID" register, containing "Practice\_ContactInfoID (FK)" denoting the purchaser's organization's contact individual for information about the purchaser organization's practice, "StateLicense" providing the license/registration information for the practitioners in the purchaser's organization, "DEA" and "SSN" fields containing information about the specific practitioners affiliated with the purchaser's organization.

A "Vendor" table contains a "VendorID" field providing an identifier for the vendor. The fields in such table include "VendorName," providing the full business name of the vendor whose goods and/or services are offered at the Web site, "ContactInfoID (FK)" to provide the contact individual in the vendor's organization, "Bill\_ContactInfoID (FK)" to specify the contact individual in the vendor organization who is responsible for billing issues, "Home Page" to specify the Universal Resource Locator (URL) or other identifier for the Web site of the vendor, that may be hyperlinked to the on-line shopping Web site, "Consumer Products" to identifier any goods and/or services in the consumer products category, "Commission Percentage" to specify the percentage commission applicable to purchase transactions consummated at the Web site that involve such vendor's products, "Active" and "Archived" to indicate the currently active or alternatively inactive status of the vendor, "OrderActive" to denote the status of any outstanding order transactions involving the vendor, and "BrowseActive" to denote the viewable character of the wares offered by the vendor at the on-line shopping Web site.

The database includes a "VendorProduct" table containing fields for "VendorProductID," "ManufacturerID (FK)," "VendorID (FK)," all relating to the identifiers for the parties to the transaction and the original equipment manufacturer (OEM) of the goods involved, "VendorProductCode" giving the identifier for the item or service involved, "DPOProductID (FK)" referring to the product identifier at the on-line shopping Web site, "CreatedOn," "CreatedBy\_LogonID (FK)," "Approved," and "ApprovedBy\_LogonID (FK)," to document the identity of the data entry party, and the approved character of the entry, "PhotoPath" to denote the graphic character of the entered information, "Active" and "Archived" to indicate current or historical character of the entered information, and "Detailed Description" to provide additional information about the product involved.

The "VendorProduct" table is connected to other tables including the "OrderLine" table, which includes various fields, comprising an "OrderLineID" identifier for the order transaction, "VendorProductID (FK)," and "OrderHeaderID (FK)" for identifiers for the product involved, and "Quantity," "PricePerUnit" and "Invoiced" to provide the quantity, unit price and billed character of the order transaction. The fields included in such table also include "EmailSent" to document the confirmed character of the transaction by electronic verification to the parties involved. Finally, the "Substitution" field indicates whether or not the purchaser allows substitutions to be made for the specific goods or services involved.

The "Price" table is at the lower left hand corner of the drawing in Figure 56, and includes "VendorProductID (FK)" and "MinimumQuantity" fields to specify the vendor's product code and applicable minimum quantity that may be required for the sale of certain items offered at the on-line shopping Web site. The "Price" table also includes "Price," "Active" and "Archived" fields, to reflect the pricing, and the current or alternatively historical character of the pricing present in such table.

The "Brand" table contains the "BrandID" field and "ManufacturerID (FK)" field to identify the product brand name and the identifier for the manufacturer of the offered product. The "Brand" table also includes "Description" and "Active" fields to further particularize the brand and the current status of the brand.

To the right of the "Brand" table is the "Manufacturer" table, containing the "ManufacturerID" field identifying the manufacturer of products offered at the Web site, together with the fields "Description" and "Active" providing additional information about the manufacturer as well as the current status of such manufacturer.

To the right of the "Manufacturer" table is the "Attribute" table, containing an "AttributeID" field listing the attributes for which values are set out in the operation of the Web site software, as well as the fields "Description" and "Active" providing additional information about the attributes as well as the current status of such attributes.

Immediately below the "Attribute" table is an "AttributeValue" table, which contains the field "AttributeValueID" as an attribute specifier of the values for each attribute, as well as the fields "Description" and "Active" providing additional information about the attribute values as well as the current status of such attribute values.

To the left of the "AttributeValue" table is the "DPODetail" table, containing the field "DPOProductID (FK)" denoting the identifier for the product code as used at the on-line shopping Web site, the field "OrdinalIndex" providing an indexed field of the product codes, the field "AttributeID (FK)" which provides an identifier for the attributes in the table, and the field "AttributeValueID (FK)" which provides a correlative identifier for the values associated with the attributes in the table.

Next adjacent (in the leftward direction) to the "DPODetail" table is the "DPOProduct" table, containing the field "DPOProductID" denoting the identifier for the product code as used at the on-line shopping Web site, the field "Description" providing a further specification of the product codes, the field "CreatedOn" which provides the date of entry of the data entries in the table, the field "CreatedBy\_LogonID (FK)" to denote the data entry operator providing the input of data in the table, and the field "Active" to denote the current status or historical status of the information in the table.

At the bottom portion of Figure 56 are order template tables, including "OrderTemplateLine" and "OrderTemplateHeader" tables. The "OrderTemplateLine" table includes a field for "OrderTemplateLineID" information as an identifier for the table information, the field "OrderTemplateHeaderID (FK)" as the identifier for information in the header of the template, a "VendorProductID (FK)" field for the vendor product codes of the products displayed for purchase at the Web site, and a "Qty" field relative to the specification of quantity information associated with the products purveyed at the Web site.

The "OrderTemplateHeader" table includes field "OrderTemplateHeaderID" for the identification of the template header for the order, the field "LogonID (FK)" for the identification of the user of the site, and the field "Description" for further information concerning the order template used at the Web site.

In Figure 57, additional tables of the database structure are depicted, and include the LogonRecords" table, including a "CountID" field for tracking the specific frequency of interaction by the user with the Web site, a "LogonID (FK)" field containing the user identifiers comprising the logon identifiers, a "TIme and Date" field containing historical information on the user's prior interactions with the database, a "RemoteHost" field specifying the remote host computer involved in the interaction, a "RemoteIPAdd" field specifying the Internet protocol address for the remote user, and a "Status" field providing the category of the user reflecting prior or potential use of the Web site.

Immediately below the "LogonRecords" table is a "Shopping Cart" table, containing a "LogonID (FK)" field identifying the user of the Web site, a "VendorProductID (FK)" field containing the vendor codes for the purveyed products, and a "Qty" field reflecting the number of the product units in the Shopping Cart.

A "Logon" table is to the right of the "LogonRecords" table, and includes a field for "LogonID" containing the identifiers for the users of the Web site, a field for "Password" assigned for each user of the site, an "Active" field denoting the current or historical character of the user of the site, a "DataEntry" field relating to the information inputted for the shopping purchase and sale transactions, a "OrderProducts" field identifying the order information relating to the specific user, a "ConfirmProducts" field relating to confirmation information relative to the confirmation of orders placed by a user, an "Admin" field for the information relating to interaction with other administrative functions of the database, a "Note" field for information about the user, a "HeardFromCode" denoting the verification of contact by the Web site operator, and a "RegisterDate" field containing the information of the calendar date of registration at the Web site by a user.

The "ContactInfo" table is below the "Logon" table, and contains a "ContactInfoID" field for identifying the individual to be contacted at a user organization relative to transactions by the organization at the Web site. The fields included in such table for such organization include "FormOfAddress (FK)," "FirstName," "MiddleInitial," "LastName," "CompanyName," "BirthDate," "Email," "CountryID (FK)," "StateID (FK)," "City," "Address1," "Address2," "PostalCode," "PhoneAreaCode," "Phone," "PhoneExt," "FaxAreaCode," "Fax," "FaxExt," and "Note" fields, providing the contact information for the organization.

The database further includes a "TentativeProduct" table including fields relevant to potential products to be advertised at the Web site, including "TentativeProductID," "QueryString," "CreatedBy\_LogonID (FK)," and "CreatedOn" fields therefor. Ancillary to such TentativeProduct table, there is provided a "TentativeProductReject" table, which includes various associated fields, of "TentativeProductID," "QueryString," "CreatedBy\_LogonID (FK),"

"CreatedOn," "RejectedOn," and "RejectedBy\_LogonID" for processing new product listing queries and for rejecting same as unacceptable for inclusion in the database.

A "DataEntryRates" table is included in the database, with fields for "LogonID (FK)," "DPOProductRate," and "VendorProductRate." These fields address the rates for data entry that are applicable to inputted information.

A "ShipAddr" table is provided, which includes shipping information for products that are purchased at the Web site, including fields of "ShipAddrID," "LogonID (FK)," and "ContactInfoID (FK)."

A "FormsofAddress" table provides a "FormofAddress" field containing the contact addressing format for the database.

A "Country" table is included in the database, including fields of "CountryID" for respective country codes, and "Description" and "Active" fields for such country listings. A corresponding "State" table includes fields for "StateID," "Description," "Abbreviation," and "CountryID (FK)."

Next, a series of tables address administration of user interactions with the Web site. A "LogonPermissions" table includes fields for "LogonID (FK)," "PermissionID (FK)," and "Customer Service." A "Permissions" table includes fields for "PermissionID," followed by the number fields "One," "Two," "Three," "Four," "Five," and "Six," providing up to six individuals with ordering ability in the user organization.

A "Category" table includes "CategoryID" and "Description" fields relative to categories of users of the Web site.

Customer service functions are provided by the "CallTracking" table, relative to monitoring and responding to user contacts. The "CallTracking" table includes a multiplicity of fields: "CallTrackingID," "Consumer\_LogonID (FK)," "Date," "CategoryID (FK)," "FollowUpRequired," "FollowUpDate," "FollowUpPerson," "FollowUpCompleted," "Notes," "Company," "Phone," "Fax," "Email," "Name," "FollowUp\_CallTrackingID," "timestamp," "Consumer\_LogonID," "TookCall\_LogonID (FK)," and "LogonID (FK)."

An "UpdatePrices" table in the database accommodates revisions of pricing and minimum quantity criteria of the offered products, and includes the fields of "VendorProductCode," "MinimumQuantity," and "Price."

Referring now to Figure 58, various order processing functional tables are included in the database, including a "ReptTransactionList" table (containing fields of "OrderHeaderID," "CreatedOn," "VendorID," "VendorName," "VendorProductCode," "Quantity," "PricePerUnit," "Invoiced," and "QuoteOnly"); a "RptInvoiceHeader" table (containing fields of "InvoiceNum," "InvoiceDate," "VendorID," "Inv\_ContactInfoID," "TotalCommDue," "AmtReceived," "BalanceDue," and "PercentComm"); a "RptInvoiceLine" table (containing the fields of "InvoiceLineID," "InvoiceNum," "OrderHeaderID," "VendorProductCode," "Quantity," "UnitPrice," "SubTotal," "CommDue," and "OrderDate"); an "InvoiceHeader" table (containing "InvoiceNum," "InvoiceDate," "VendorID," "Inv\_ContactInfoID," the fields "TotalCommDue," "AmtReceived," "Balance Due," and "PercentComm"); an "InvoiceLine" (containing table fields of "InvoiceLineID," "InvoiceNum," "OrderHeaderID," "VendorProductCode," "Quantity," "UnitPrice," "SubTotal," "CommDue," and "OrderDate");

and an "InvoiceContactInfo" table (containing fields of "InvoiceContactInfoID," "InvoiceNum," "FormofAddress," "First Name," "Middle Initial," "LastName," "CompanyName," "BirthDate," "Email," "CountryID," "StateID," "City," "Address1," "Address2," "PostalCode," "PhoneAreaCode," "Phone," "PhoneExt," "FaxAreaCode," "Fax," "FaxExt," and "Note").

In operation, the database operates to provide the funtionality previously described in connection with the graphical user interface screens and reports of Figures 1-54.

Figures 59-72 show various screens constituting graphical user interface output of a Web site software computer program according to another aspect of the invention, deriving from a Customer Service Utility module of such software program.

## **Customer Service Module**

The look, feel, function, content and operation of the Customer Service Utility module will be readily apparent from the screens depicted in Figures 59-72.

The customer service utility preferably has a main menu page. Figure 59 shows an exemplary main menu page which permits the operator to open the "customer call tracking" function, the "required calls" function, and the "manager" functions, as well as permitting the operator to exit the program.

The customer service utility preferably has a customer call tracking function. The customer call tracking function can be divided into areas such as administration, billing function and shipping function.

The administrative function preferably includes administrative information such as the user's log-on identification and password, name, form of address, birthday, e-mail address, company, telephone, facsimile, address, city, state, postal code, country, as well as fields for entering information such as when the last time the user was contacted and for entering any miscellaneous notes. The administrative function preferably references a database and the database is preferably searchable on various fields within the administrative function, such as log-on identification, name, e-mail address, company, telephone, facsimile, or postal code, in order to facilitate various customer service searches. A preferred customer call-tracking screen is displayed in Figure 60.

The customer call tracking function also preferably has a billing function. The billing function preferably contains fields such as the customer name, form of address, birth date, e-mail address, company, telephone, facsimile, address, city, state, postal code, country, and a field for various notes. A preferred customer call-tracking screen, which interfaces with the customer service database, is illustrated in Figure 61.

The customer service utility also preferably includes a shipping function, which permits the customer service operator to view information from the customer service database, including fields such as name, form of address, birth date, e-mail address, company, telephone, facsimile, city, state, postal code, country, as well as a field for entering various notes. Furthermore, the customer call tracking shipping function preferably contains a means for switching between various shipping addresses used by single customers. For example, any particular customer may have multiple shipping addresses, and the customer call tracking shipping function preferably permits the customer service operator to toggle between such addresses as necessary.

Each of the customer call tracking functions, such as administrative billing and shipping functions are preferably accessible from a single customer call tracking generalized screen, as

shown in Figure 62. The access to the various administrative billing and shipping areas can be via a virtual tab system, whereby the user can select various tabs located across the top of the customer call tracking window in order to access the various customer call tracking functions. Furthermore, the customer call tracking function preferably contains a means for permitting the user to access screens for entering new calls, for viewing old calls, for entering or editing credit card information, and for entering or editing dentist information.

Figure 63 shows a call detail screen which is accessible from any of the customer call tracking function screens, and which permits the customer service operator to enter a call description, as well as permitting the customer service operator to enter reminder information for following up on the customer contact. The follow-up information is stored in the database where it can be accessed from various screens in the system, such as the call list screen in order to track the record of customer contacts. Once the customer service operator enters the call description, the record can then be saved by accessing a save function, such as by pressing the virtual save button as shown in Figure 63. The call details screen also preferably has fields for information such as the operator who took the call, the log-in identification of such operator, the date of the call, the name of the customer being called, the company of the customer being called, the telephone number of the customer being called. The call details customer tracking function may also be provided with a means for instructing the computer to dial the customer's telephone number.

Figure 64 shows an exemplary call list for a specific user which is accessible from any of the customer call tracking windows, preferably by pressing a virtual button, such as the view calls button of Figure 62. The call list preferably contains information such as the name, the contact date, whether follow-up has been performed, and which customer service operator received the

call. The customer call tracking screen also preferably enables the customer service operator to access the customer's credit card information, such as by pressing a virtual button, such as the "credit card info" virtual button as shown in Figure 65. Figure 65 also shows an exemplary credit card information pop-up window according to the present invention which contains information such as card type, card number and expiration date.

The customer call tracking screen also preferably permits the user to access any special information concerning the customer which is specific to the customer's field, for example, the users have implemented a system according to the present invention for the sale of dental equipment, and accordingly, the customer call tracking screen in such circumstances preferably includes a screen for displaying dentist information from the database, including fields such as State License number, D.E.A. number, and Social Security number, as shown in Figure 66.

The system also preferably includes a means for permitting the customer service operator and/or the customer service manager to access the information contained in the database in order to provide a list of required calls for the customer service department or for any particular customer service representative. Such a call list can serve as a task list for a particular customer service representative or a quality control list for a customer service manager, in order to determine what calls are being made and what calls need to be made. An exemplary required calls listing a series of all required calls or a number of customer service representatives is illustrated in Figure 67.

The customer service utility also preferably includes a customer service management function.

The customer service management function is preferably accessible from the customer service utility main menu. The customer service administrative management function preferably permits the customer service manager to manage log-in permissions for various customer service

personnel, including a means for determining which information the customer service personnel can read and which information the customer service personnel can edit.

Various fields, which are preferably controllable by the customer service manager using the customer service manager function, include contact information, calls, credit card information and manager access. For example, any particular customer service representative may be permitted to read contact information but not to edit contact information. For another example, any particular user may be permitted to read credit card information, but not to edit credit card information. An exemplary customer service administrator window is illustrated in Figure 69.

The customer service manager function of the customer service utility also preferably includes a means by which the customer service manager can view various planned follow-up calls and edit such calls and/or reassign such calls to various other customer service representatives. An exemplary program window, which permits the customer service manager to manage calls according to the present invention, is illustrated in Figure 70.

Throughout the present specification the applicants have made various references to accessing programs, linking to various programs, linking to various functions, performing various functions, etc. It will be readily understood by one of skill in the art that these various operations are generally performed by a wide variety of software mechanisms including, for example, virtual buttons, virtual tabs, function buttons, and other various means known in the art. Furthermore, it will be appreciated that throughout the drawings, various virtual buttons and/or virtual tabs, and/or fields are displayed. The functions of such virtual buttons, virtual tabs, and/or fields are generally ascertainable by one of skill in the art simply by observing the Figures. Further, the virtual buttons, in particular, contain a variety of standard buttons including close buttons, save buttons, exit buttons, cancel buttons, and others which are generally used and are known in the art.

In another aspect of the present invention, the applicants provide a method for establishing a database structure and populating such a database structure with a series of standardized product descriptors which can be used by a user/customer to identify and compare various products within a particular product category. According to the method, information is collected concerning a product population, and products are compared by individuals knowledgeable in the field, to establish a list of the minimum necessary attributes needed to identify any particular product. Such attributes may vary according to the complexity of the product, and this is one of the major advantages of the present system and database. A category-attribute chain by which the user can by making attribute selections at each level of the category-attribute chain arrive at a final product group. The final product group can then be displayed in a grid or other format which permits the user to compare the prices of like products. Once the category-attribute chain is established, a minimum number of products can be entered within a particular category in order to encompass all product types within that category. These products can then be checked for accuracy, and upon approval, the database can be populated with all products in each category-attribute chain group.

Figure 73 is a schematic representation of a relational product entry procedure for existing and/or new vendors, to input product information and to ensure its quality. As shown, a "Vendor Catalog" is a source of product information that is subjected to data identification scrutiny by the vendor as well as the in-house staff of the Web site operator. The identified data then is passed to an in-house staff of the Web site operator for data preparation, by which is meant the formulation of the data in a form that is amenable to input in the database of the Web site software system.

Data entry and approval is then carried out by collateral teams of individuals (denoted "Team 1," "Team 2," and "Team 3," respectively) to ensure the accuracy of the data entry process. Finally,

the entered data is subjected to quality assurance scrutiny by the quality assurance team of the Web site operator.

Figure 74 is a relational depiction of a category creation procedure for remaining sub-categories, as carried out to establish a database structure and populate it in such a way that products can be easily and logically identified by the majority of Web site users.

In this procedure, various Levels are established for the category definition effort. Level 3 activity is the creation of the structure, viz., the establishment of a category structure and documentation of industry nuances that are specific to the particular goods and/or services being categorized. Level 2 activity is data entry activity, and relates to building a database structure established by Level 3. Level 1 activity is data entry, involving populating the database established by Level 2. Level 0 activity is quality assurance, relating to verification of the subcategories and the vendor information completeness.

These various Level 0-3 activities are shown in Figure 74, for an illustrative example involving about 200 categories. Successive teams are involved in the respective steps, as illustrated.

It will be appreciated that the database may be constructed, arranged, operated and constituted in a wide variety of different forms. In addition, it will be appreciated that the appearance and visual aspect of the screens shown to the user in operation of the Web site software may be correspondingly varied to provide a look and feel character that is widely variable. Further, the content of the database may be correspondingly varied dependent on the nature and types of products and/or services that are purveyed at the Web site.

Although the invention has been described with respect to various illustrative embodiments, features and aspects, it will be appreciated that the utility of the invention is not thus limited, but rather extends to and includes various other modifications, alterations and other embodiments, as will readily suggest themselves to those of ordinary skill in the art based on the disclosure herein. The invention is therefore intended to be broadly construed, as encompassing all such modifications, alterations and other embodiments within the spirit and scope of the ensuing claims.

## **THE CLAIMS**

- 1. A searchable database comprising a multiplicity of tables including an attributes table and a values table for a multiplicity of target search items constructed and arranged so that selection of values for one or more target search item attributes yields an attribute-value construct specifying a particular one of said target search items and precluding an indeterminate search result.
- 2. The searchable database of claim 1 that is user-specifiable for selected attributes of said attributes table.
- 3. The searchable database of claim 1 constructed and arranged for presentation of all attributes of said attributes table, for user selection of values from said values table.
- 4. The searchable database of claim 1 embodied in a tangible medium.
- 5. The searchable database of claim 4 wherein said tangible medium is selected from the group consisting of: optical recordation media, magnetic recordation media, holographic recordation media, electronic recordation media.
- 6. The searchable database of claim 4 wherein said tangible medium is selected from the group consisting of: CD-ROMs, magnetic disks, magnetic tape, magnetic drums, electronic memory, ferroelectric memory, and combinations thereof.

7. The searchable database of claim 1 wherein the target product search items comprise products.

- 8. The searchable database of claim 1 wherein the target product search items comprise services.
- 9. The searchable database of claim 1 wherein the target product search items comprise dentistry products.
- 10. The searchable database of claim 1 wherein the target product search items comprise medical products.
- 11. The searchable database of claim 1, operatively resident in a programmable computer.
- 12. The searchable database of claim 11 wherein said programmable computer is operatively coupled to a computer network.
- 13. The searchable database of claim 11 wherein said computer network comprises the World Wide Web.
- 14. The searchable database of claim 1 wherein said target search items comprise products for a purchase and sale transaction.
- 15. The searchable database of claim 14 wherein the searchable database is operatively coupled to software providing order capability for said purchase and sale transaction.

16. The searchable database of claim 1 operatively connected to a computerized user interface system.

- 17. The searchable database of claim 16 wherein the computerized user interface system comprises a persistent shopping cart.
- 18. The searchable database of claim 16 wherein the computerized interface system comprises an attribute-value chain search capability.
- 19. The searchable database of claim 16 wherein the computerized interface system comprises a selectable display of user history involving said target search items.
- 20. The searchable database of claim 1 wherein the number of attribute-value levels for each target search item varies according to the complexity of each target search item.
- 21. The searchable database of claim 16 wherein the computerized interface system comprises a custom order template.
- 22. An online comparison shopping system comprising:
- (i) a searchable database containing product selection information for products from different sources; and
- (ii) a user interface operatively coupled to said database for user manipulation thereof to select product(s) based on product selection information and constructed and arranged to communicate ordering information to source(s) of selected product(s).

23. The online comparison shopping system of claim 22 wherein the searchable database comprises a multiplicity of tables including an attributes table and a values table for a multiplicity of target search items, and is constructed and arranged so that selection of values for one or more target search item attributes yields an attribute-value construct specifying a particular one of said target search items and precluding an indeterminate search result.

- 24. The online comparison shopping system of claim 22 wherein the searchable database is constructed and arranged for presentation of all attributes of said attributes table, for user selection of values from said values table.
- 25. The online comparison shopping system of claim 22 wherein said searchable database is embodied in a tangible medium.
- 26. The online comparison shopping system of claim 25 wherein said tangible medium is selected from the group consisting of: optical recordation media, magnetic recordation media, holographic recordation media, electronic recordation media.
- 27. The online comparison shopping system of claim 25 wherein said tangible medium is selected from the group consisting of: CD-ROMs, magnetic disks, magnetic tape, magnetic drums, electronic memory, ferroelectric memory, and combinations thereof.
- 28. The online comparison shopping system of claim 23 wherein the target product search items comprise products.
- 29. The online comparison shopping system of claim 23 wherein the target product search items comprise services.

30. The online comparison shopping system of claim 23 wherein the target product search items comprise dentistry products.

- 31. The online comparison shopping system of claim 23 wherein the target product search items comprise medical products.
- 32. The online comparison shopping system of claim 22 whererein the user interface and the searchable database are each operatively resident in a programmable computer.
- 33. The online comparison shopping system of claim 32 wherein said programmable computer is operatively coupled to a computer network.
- 34. The online comparison shopping system of claim 33 wherein said computer network comprises the World Wide Web.
- 35. The online comparison shopping system of claim 23 wherein said target search items comprise products for a purchase and sale transaction.
- 36. The online comparison shopping system of claim 23 wherein the searchable database is operatively coupled to software providing order capability for said purchase and sale transaction.
- 37. The online comparison shopping system of claim 22 wherein the computerized user interface system comprises a persistent shopping cart.

38. The online comparison shopping system of claim 22 wherein the computerized interface system comprises an attribute-value chain search capability.

- 39. The online comparison shopping system of claim 22 wherein the computerized interface system comprises a selectable display of user history involving said target search items.
- 40. The online comparison shopping system of claim 23 wherein the number of attributevalue levels for each target search item varies according to the complexity of each target search item.
- 41. The online comparison shopping system of claim 23 wherein the computerized interface system comprises a custom order template.
- 42. The online comparison shopping system of claim 22 wherein the searchable database comprises at least one of the tables of Figures 56-58.
- 43. The online comparison shopping system of claim 22 wherein the searchable database comprises the structure of Figures 56-57.
- 44. The online comparison shopping system of claim 43 wherein the searchable database further comprises the structure of Figure 38.
- 45. The online comparison shopping system of claim 22 further comprising means for quote generation for a potential transaction identified by a user.

46. The online comparison shopping system of claim 45 wherein the quote is saved in a user history archive.

- 47. The online comparison shopping system of claim 45 wherein the quote is automatically e-mailed to a user.
- 48. The online comparison shopping system of claim 22 wherein the user interface comprises search means having search capabilities selected from the group consisting of category searching, vendor searching, brand searching, manufacturer searching, code searching, index searching, and order history searching.
- 49. An online comparison shopping system comprising a database containing product information of multiple vendors, manufacturers and/or products and a user interface generating a virtual shopping cart, and constructed and arranged to enable a user to selectively aggregate an order in said virtual shopping cart, comprising products represented in said database, and means for electronically disaggregating said order to generate vendor-specific orders to respective vendors.
- 50. The online comparison shopping system of claim 49 further comprising means for electronically transmitting said vendor-specific orders to said respective vendors.
- 51. A computer network-based on-line comparison shopping system, comprising an operational World Wide Web site having the description, content, look, feel, function, structure, architecture, operation, sensory features, aesthetic characteristics and substance of the World Wide Web site "Dental-Purchasing.com."

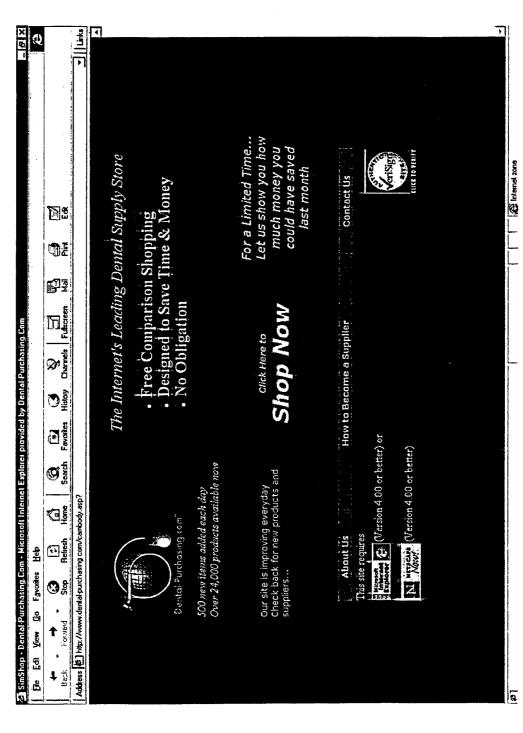
52. A computer network-based on-line comparison shopping system having an architecture of Figure 55.

- 53. A method of conducting electronic commerce involving online comparison shopping comprising providing a database containing product information of multiple vendors, manufacturers and/or products, and a user interface generating a virtual shopping cart, and manipulating said user interface to selectively aggregate an order in said virtual shopping cart, comprising products represented in said database, and electronically disaggregating said order to generate vendor-specific orders to respective vendors.
- 54. The method of claim 53 further comprising electronically transmitting said vendorspecific orders to said respective vendors.
- 55. A method of constructing and populating a database with a series of standardized product descriptors which can be employed by a user to compare fungibly equivalent products from different sources to select product(s) therefrom, comprising identifying a set of attributes and establishing same in said database for said fungibly equivalent products, and establishing in said database a multiplicity of selectable values for each of said attributes wherein each of said values is independently selectable to define a unique attribute-value chain for a fungible product group.
- 56. A comparative purchase process comprising:
- (i) querying a database populated with a series of standardized product descriptors that can be employed by a user to compare fungibly equivalent products from different sources to select product(s) therefrom, wherein said database contains a set of attributes for said fungibly equivalent products and a multiplicity of selectable values for each of said attributes wherein

each of said values is independently selectable to define a unique attribute-value chain for a fungible product group, wherein said query yields a attribute-value chain for a group of fungibly equivalent products; and

- (ii) generating a comparative selection grid comprising product information for said group of fungibly equivalent products thereby enabling the user to select a specific product from said comparative selection grid.
- 57. A method of qualifying product data for inclusion in a database comprising:
- (i) identifying a series of standardized product descriptors which characterize fungibly equivalent products from different sources;
  - (ii) identifying a set of attributes for said fungibly equivalent products;
- (iii) establishing a set of selectable values for each of said attributes wherein each of said values is independently selectable to define a unique attribute-value chain for a group of fungibly equivalent products; and
- (iv) verifying the accuracy of attribute-value chain information as a condition for entry in the database.
- 58. A method of interactive purchase and sale of products, comprising the steps of providing an operational World Wide Web site having the description, content, look, feel, function, structure, architecture, operation, sensory features, aesthetic characteristics and substance of the World Wide Web site "Dental-Purchasing.com," selecting products by comparison shopping to determine the products meeting a predetermined selection criterion, and placing an order at said World Wide Web site for subsequent shipment.

figure01.gif (960x720x256 gif)



Eigure02.gif (960x720x256 gif)

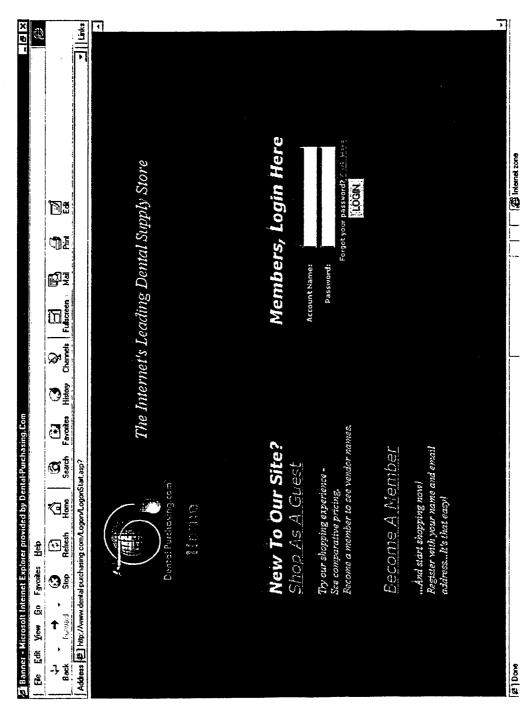


figure03.gif (960x720x256 gif)

Sock Foowed Stop Refresh Hidees E http://www.dental-purchasing.com/frame Shop Order History Templates ShoppingCart Edit Account Help	File Edit Yiew Go Favorites	Heb	.
Please egory le ndor nufacturer ind	Bock Fassind Stop	Serge Constant	
Please Annal Furthering commutation Home Shop Order History Templates Shopping Cart Shop Templates Felix Account Help Brand History Templates Filix Formulation	kdtess  色] hitp://www.dental-purcha	sing com/FrameTop.asp	4     F
Please Antal Purchesing com Home Shop Order History Templates Shopping Cart Templates Shopping Cart Templates Help Brand History Templates Fire	( SEE )		
Category  Home Shop Order History  Templates ShoppingCart Edit Account Help Brand History  Templates  Help Firstory Firstory Firstory Firstory		Please	select how you would like to shop
Snop Order History Templates ShoppingCart Edit Account Help Brand History Templates File	Dontal Purchasing com Hame	Category	Choose a supplier with the value-added service you prefer or the cnethat offers the best price
Vendor Manufacturer Brand History Templates	> Shap Order History	Code	Only know a vendor's product code? We'll look up everything eise
Manufacturer Heip Brand History Templates	Templates	Vendor	Simplified search for products from a particular vendor
Brand History Templates	Edit Account	Manufacturen	Find specific products fast by limiting queries to a particular manufacturer
SS	neip	Brand	Easily find products by commercial name
Templates  Build custom order templates to speed standard ordering		History	Track product buying trends to determine most cost effective order quantities
		Templates	Build custom order templates to speed standard ordering
EQIT ACCOUNT Modify the details of your account with us online		Edit Account	Edif $Accounf$ Modify the details of your account with us online
	2] Search by Manufactures		(A Internet zone

figure04.gif (960x720x256 gif)

Back Forward Stop	Pelest.	Home Search	Favorites	(3 &	
#] http://www.	dental purchasing com/Frame Top asp	eTop asp			
1					
		ld	sase s	slect how you w	Please select how you would like to shop
Dental Purchasing.com Home		Category		Choose a supplier with the vithat offers the best price	Choose a supplier with the value-added service you prefer or the one that offers the best price
V.Shop By Brand		Code	Ü	ily know a vendor's produc	Only know a vendor's product code? We'll look up everything else
By Category		Vendor	U	nplified search for product	Simplified search for products from a particular vendor
by Manuacturer By Product Code		Manufacturer Find specific p	านายา	nd specific products fast b enufacturer	Find specific products fast by limiting queries to a particular manufacturer
By Vendor		Brand	ш	Easily find products by commercial name	neroial name
Order History Templates		History	- 6	Track product buying trends quantities	Track product buying trends to determine most cost effective order quantities
V. ShoppingCart		Templates		ild custom order template:	Build custom order templates to speed standard ordering
Recalculate		Edit Acco	ant »	Edit Account Modify the details of your account with us online	count with us online
Save as Template					
r Edit Account Help					

figure05.gif (960x720x256 gif)

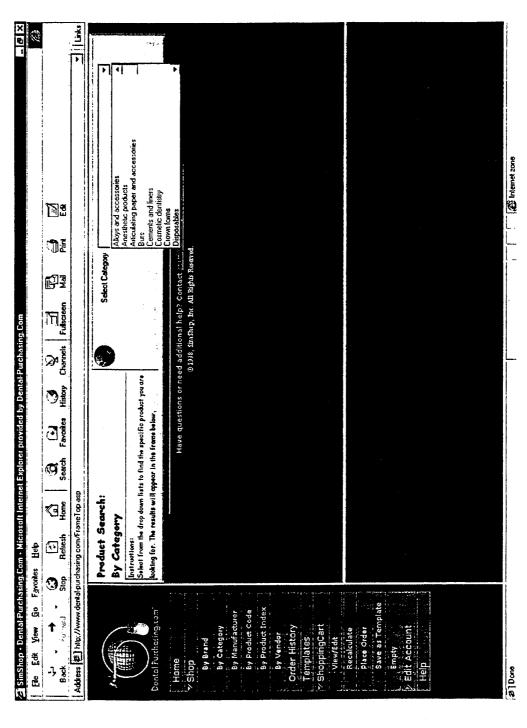


figure06.gif (960x720x256 gif)

🚰 SimShop • Dental-Purchasing. Com • Microsoft Internet Explorer provided by Dental-Purchasing. Com	sing Com - Mic	rosofi Inter	net Explore	er provided	by Dental	Purchasin	g.Com					× 81 -
File Edit View Go Favorites	workes Help											(1)
<b>十</b> る	Sto &	<b>₹</b> ]	<u>a</u> 2	Favorites	Fistory.	& Channels		<b>F</b> 3	<b>]</b> ][	<b>1</b>		
Address 😂 http://www.denial-purchasing.com/FrameTop.asp	purchasing com/	Frame Top as	a									- Like
						1						
Jas	Product Search:	Search:				3	Š	Select Category Burs	My Burs		F	
	By Category	dow				}.	38	Bur subcategory Carbide	y Carbid	٠	F	
	Instructions: Select from the drop down lists to find the specific pending who are	4 drop down	ists to find th	s specific per	and to the	ī		Burty	Pe Frection	But type Friction grip (SL) = surgical length	1	
Dental Purchasing.com	boking for. The results will appear in the frame below.	in cesults will	depear in the	frome below			œ	But shape/use			1	
a second						-			Flat en	Flat end fissure crosscut		
Home				Have quest	tions or ne	ed addition	Have questions or need additional help? Contact 1948	ontact '		Round end fissure crosscut		
dous						© 1998, Sira	@ 1998, SinShep, Inc. All Bights Reserved	Rights Rese	Wed Straigh	Suggit tome dossour Straight lissure		
By Brand									Taper	Taper dome crosscut Taper fissure crosscut		
By Category												
By Manufacturer												
By Vender												
70 H U												
/ ShoopingCart												
Viewf												
Recalculate												
Place Order												
Save as Template												
Mana												
V Edit Account												
Help												
And it is a supplemental formula in the supplemental in the supple												
2010ma									Ĺ	All Informations		

figure07.gif (960x720x256 gif)

File Edit View Go Favorites	Fgyondes Heb			- manager approximate at 1 and										Q
. ↓ ↓ ↓	Befresh	<b>₹</b>	Search Fa	Favorites History		Channels Fulscreen	<b>₹</b>	<b>1</b>	:	) Di				,
Address (2) http://www.dental-purchasing.com/FrameTop.asp	ichasing com/Fra	dse do jau											F	Liks
	Product Search:	rarch:			i		Select	Select Category Burs	SJr.				F	1
	By Category	<u>~</u>					Bur sub	Bur subcategory C	Carbide				1	
								But type Fr	ction gri	15L) = ±u	Firction grip (SL) = surgical length		<b>•</b>	
Contal Purchasing. can							Bus sh	But shape/use Round	puno				1	
ew	Instructions:				T			Bus size 4					P	
× Shop	Select from the drop down lists to find the specific product you are	nop down lis	its to find the sp	ecific product y	20 20		Burcon	Bur components Single bur type	ngle bur	ype			1	
By Brand	coking for the results will appear in the frame below.	Sults will	appear in the Ira	me Delow.	٠,		Ĭ	Manufacturer (ALL)	a a				1	
By Category								Brand (ALL)	ίţ				٦	
By Manufacturer					- 1					. 3	) 		Clear	1
By Product Index By Vendor			Hav	e questions	or need 01	Have questions or need additional help? Contact ្រាះី វិសាសមានក្រាន់ ការការការការការការការការការការការការការក	o? Conta	ontact [1] * [ ]   Rights Reserved.	etster.	531.163				1
Order History				-	G#4 SL	FG#4 SL (surgical length) round carbide tur	gth) ro	und carbit	le bur					
ShoppingCart	Ysndec	2.0	Preducticeda	Manufacturer	HER.	Brand		101	34	16. 59	100	Hestory	Quantity	
View/Edit Recalculate	Arrield Sental	nt al	50.55%	Dentsply Midwest	ى د	*NOT	\$1.05						Ŀ	
Place Order	Angld Septed		ADSSWCSLR4	S.S. White	£	<#OT	\$1.25		=	\$1.25			٩	1
Empty	The French Surply	Na Jus	164-00011	Dentsply Midwest	٠ ج	-NOT SPECIFIED>	\$2.19						For companson only	
ir Account	Zila Crental Eupply	স্তৰ্জ	190-00109	S.S. White	a t	<not SPECIFIED&gt;</not 	\$2.19		#	\$1.95			For comparison anly	i .
	Seille in School	theret.	999-8115	s.s. white	ż	<not SPECIFIED&gt;</not 	\$2.19		#	\$1.99			For comparison anly	
	Eracea Vallez Eseté le Suceté	llez SEL	660004	BluWhite	au .	<not SPECIFIED&gt;</not 	\$2.25						L <sub>E</sub>	
						TONS			L	H	L			

figure08.gif (960x720x256 gif)

Ž	:	-   Links	1				<i>:</i>									·	ves.	2	ison	,	,	
			•	١	P	F	न	F	ন	P	া	F	F	F	1	Qeer.	Latex gloves: non-sterile, powdered, non-chlorinated, smooth, natural color and flavor. not fitted. Box of 100 medium gloves.	Quantity	For comparison only	Le		ㅁ
			-														100 med	History				
		i															Box of	뛲				
			knosten														fitted.	<b>SE</b>				
	<b>D</b> 3		Control.			٠		rinated				not fitted	30 gloves				101, not	52	‡3.95			
	P. C.		Select Category Infection cookel - personal	Gloves	Latex	Glove sterilly Non-sterile	Powdere	Non-chlo	Smooth	Natural	Natural	Medium/	Box of 11	भूत	Brand <all></all>		and flav	g	\$4.49			
			alegoro	ategory	Glove material	steribly	wdering	magon	Glove texture	Glove color Natural	Glove Bavor Natural	e/Riting	ckaging	Manufacturer (ALL)	Brand		color	m			\$5.29	14.95
1			Select	tion subc	Glove	Glove	Glove powdering Powdered	Glove chlorination Non-chlorinated	Glove	5	9	Glove size/fitting Medium/not fitted	Glove packaging Box of 100 gloves	Man			natura		\$4.95	<b>‡</b> 5.49	\$5.79	\$5.95
	Full Com			Personal protection subcategory Gboves				ω.	•			120 a					nooth,	:-	glove upply)	exam	TED>	x am
	Charmels			Perso													ated, si	Brand	Latex exam glove (Zila Dental Supply)	Supergloves exam gloves	<hot specified=""></hot>	Micro One exam gloves
1			-							2000							chlorin		Late:	Supe	   	Mic
	History									product	. <u>.</u>			1.			d, non	turer	ental oly	8	ntco	×
	Favories									e specific	frame be				: .		wdere	Manufacturer	Zila Dental Supply	Mexpo	Fredentco	Microflex
	Q §									to find th	sear in the						erile, po	3ct	398	Moo	100	ģ z
-	~ <b>₹</b> E	dse do j	ii ii							Instructions: Select from the drop down lists to find the specific product you are	looking for. The results will appear in the frame below						non-st	Product Cade	658-00368	PB5600M	FGLEMOOL	CD565-
i	- F	m/Frame	Product Search:	By Category						s: of the drop	The resu						gloves	dor	n Perting	im React. Period	5550	<u>Carolina</u> Dentai Supply
-	€ g	asing co	roduc	Y Cat						Instructions: Select from (	oking for.						Latex	ः <u>Yendor</u>	Zea Perted Supply	palm aeach Pearad	Fradentio	Sarolina Dentai Sup
1	Øģ.	ental-purch	Ì	<b>a</b>			-			્ર - મુજ	<u>ه</u>			W 18	בי ו/מיי					erice;		
	↑ Dated	Address [色] http://www.dental-purchasing.com/FrameTop.asp			N.S	ng.com				· 2·	cturer	Code	Index			irt	, ay	er emplate				
	.2:	A http:/	(			Dontal Furchasing.co	0	, ,	Brand	Catego	Manufa	Product.	Produc	Vendor	r Histo		• w/Edit realculat	ace Ord	npty Accour	The s		
ĺ	- 구 호	dress		VE.		lotus	10 m	Shop	â	., a	. a	ன்.	á.	a ·	ğ	Shoppin	> &	- ຄ ທ	<u> </u>	Help		

figure09.gif (960x720x256 gif)

			o Favorites Heb							
Refresh Home	A g	Fevorites History	y Charmels Fullscreen		<b>D</b> E	1	<b>D</b> 3			
dental purchasing com/FrameTop asp	dse de									T Links
	os oi	e more of the p	to see more of the product table, cack, hold and drag the nonzontal dividing par up.	and end	3 dr.3g	tne nai	nzonta	Cividir	g par up.	
c gloves: r	non-sterile,	powdered, non-c	Latex gloves: non sterile, powdered, non-chlorinated, smooth, natural color and flavor, not fitted. Box of 100 medium gloves.	natural (	color a	nd flavo	or, not i	itted. B	ox of 100 m	edium głoves.
Pandor	Product Code	Manufacturer	Brand	1	(H	31	\$7	30	49 Herbory	y Quantity
Action Team Redical	<u>070141</u>	Action Team Medical	ATM exam gloves				\$4.95			l <sub>e</sub>
اديبيط كامريية ياطونك	ADLGHAM	Regaltex	Health Aid exam gloves	\$6.95		\$6.55	\$6.15	\$5.95		le.
Arreld Dental Supply	AD685- 5192	Johnson & Johnson Medical	Micro-Touch	\$B.95		\$8.53	\$8.25			l <u>e</u>
arnold Dental Supply	AD107- 0695	Malaytex	<not specified▶<="" td=""><td>\$7.25</td><td></td><td>\$6.95</td><td>\$6.75</td><td>\$6.25</td><td></td><td>l<sub>e</sub></td></not>	\$7.25		\$6.95	\$6.75	\$6.25		l <sub>e</sub>
Carelina Pentel Supply	CD100- 2282	Malaytex	Redwood exam gloves	<b>\$5.95</b>				<u> </u>		le.
<u>Carolica</u> Gertal Suopiy	CDS65- 9024	Microflex	Micro One exam gloves	\$5.95	\$4.95					le.
Sector Coppy	CD152- 9026	Dash Medical	<hot specified=""></hot>	\$8.50						le.
Frederitto	11LATMCRS	Hereus Kulzer	<not specified=""></not>	\$9.25						0
Frederics	FGLEMBO1	Fredentco	«NOT SPECIFIED»	\$5.79	\$5.29					0
Frederine	F107-0695	Malaytex	<not specified▶<="" td=""><td>\$7.99</td><td>\$6.99</td><td></td><td></td><td></td><td></td><td>e</td></not>	\$7.99	\$6.99					e
ilezekourea. <u>Pro</u>	27837	<not SPECIFIED≻</not 	Aster exam gloves			\$5.95				le.
Paim Sear. Dentai	PBS600M	Mexpo	Supergloves exam gloves	\$5.49						le.
RJM 6 scourt Overtal	0\$87-00007	Allegiance Healthcare	Pharmaseal	\$7.25		\$6.25	\$5.75			For comparison only
-!							M Internet zone	net zone	-	,

figure10.gif (960x720x256 gif)

S SimShop · Dental-Purchasing.Com · Mi File Edit View Go Favorites Heb	答 SimShop • Dental-Purchasing Com • Microsoft Internet Explorer provided by Dental-Purchasing Com File Edit View Go Favorites Heb
90c + 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	Q ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (
Address (2) http://www.dental-purchasing.com/FrameTop.asp	asing com/Frame Top asp
P. S.	Product Search; Scheck Category   Scheck Category   Search Categor
	n Madical
Bontol furchasing.com   Sal	Instructions: Saket from the drop down lists to find the specific product you are
	boking for. The results will appear in the frame below.
7 Shop	Have questions or need additional help? Contact and Co
by brand By Category	ወ 1998, ፍክንያኒያን, ክር. ላህ የኔታኒክ Roseved.
By Manufacturer	
By Product Code	
By Product Index By Vandar	
Order History	
Templates	
ShoppingCart Viewfedit	
Recalculate	
Place Order	
Save as Template	
Empty Frit Account	
dlaH	
23 Dose	Section 1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (
(a) Done	Internet zone

figure11.gif (960x720x256 gif)

× 6 -	25.7	Links				
And and comment distributions where the control and the	<b>D</b> 3		Anesthetic products XRay products		Have questions or need additional help? Contact ្្រាន់ក្នុង ខេត្តក្រុង ប្រធានាស្វា ស្រុក រដ្ឋានិក្រុង Restruct	(A) I have t
	T) E		1,		vod.	
	Ð.≩		Select Category	۳. د	Sph Rac	my negotier er eight
E G	D E		S		ed additional help? Contact ு இத D78, SmSng, br. Al Ripb Raewed	
hasing (	Charmels Fultracean		<b>9</b>		8, Strain 198, Str	
atal-Purc	Ø8 €		999	g g	6 based 2	
l by Der	<b>⊅</b>			roduct you	stions o	
piovide	avoile:			specific p	tave que	-
st Explorer	Ø å			ts to find the		
oft Intern	<b>₹</b>	neTop asp	cturer	op down lis		
n - Micros Heb	-5	ng com/Fran	Product Search: By Manufacturer: Kodak	Instructions: Solect from the drop down lists to find the specific product you are looking for. The results will appear in the frame below.		
asing Ear gyones	<b>3</b> %	al-purchasir	Produc By Ma Kodak	Instru Select bookin		~1
SimShop • Dental-Purchasing.Com • Microsoft Internet Explorer provided by Dental-Purchasing.Com File Edit View Go Favorice Heb	<b>↓</b> Fotward	Address 色 http://www.dental-purchasing.com/FrameTop.asp		Dontal Purchasing.com	by Brand  By Category  By Manufacturer  By Product Code  By Vandor  The History  Implates  OppingCart  Vawfedit  Recalculate  Pisce Order  Save as Template  Empty  It Account	
21 SimShop File Edit	J &	Address (#		Dantal Purch	Ğ — Ö — Ö — Ü — Ü	and the

figure12.gif (960x720x256 gif)

Address (€) http://www.denialsound												
less 🔁 hip://www.denial-puic	⊕ \$5	<u>~_</u>	<b>©</b> §	Favorites	<b>⋑</b>	Sh Ag	Figure 1	r i	n.	<b>5</b>		
	dental purchasing com/FrameTop asp	dse do Jau									F	Links
		-				6						
/ 公司	Freduct Search!	: aca:					S	Select Category X-Ray products	yor X-Ra	by products	ग	
	By Brand:					)	×	X-Ray subcategory X-Ray film	Ø. X-Ra	ay film	F	
	Ultraspeed DF-57	DF-57						X-Ray use	use Irangoral	ดอไ	F	
Dontal Purchesing.co.n.								XRayt	X-Ray type Periapical	pical	F	
	Instructions:	:						X-Ray spe	A O Pa	X-Ray speed D (A.N.S.I. speed group) = "ultraspeed"	FI	
Tome S	Select from the drop down lists to find the specific product you are booking for. The results will appear in the frame below.	nop down list esuths will ap	s to find the space in the f	specific prod frome below.	bet you are			X.Ray size	ize #2 si	#2 slandard [1 1/4 x 1 5/8]	F	
pue							×	X-Ray packet type				
By Category									Sperior N	×		- 1
By Manufacturer By Product Code By Product Index			I	ava questi	ons or ne	ed additi	Have questions or need additional help? Contact <u>exercises to the All Righs Regived.</u> © 1938, SmShtp, Inc. All Righs Regived.	Sontact 🚉 Il Righis Res	erved.			
By Vendor Order History Templates												-
7 ShappingCart												
Recalculate												
Place Order												
Save as Template Empty												-
dit Account												
elp												
# Done						H			L	(A) Internet zone		

figure13.gif (960x720x256 gif)

(See	2	T Links						Latex gloves: non-sterile, powdered, non-chlorinated, smooth, natural color and flavor, not fitted. Box of 100 large gloves.	Mathy Quantity	O O	0	<u> </u>	0	0	0	l <sub>e</sub>	<u> </u>	
								ox of 10	•									
	:							Itted. B	Q.		\$5.95	\$6.25					_	1
	<b>≅</b>		1. / A	1				or, not	3.5	\$4.95	\$6.15	\$6.75						Ì
1			roduca		1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		nd flav	- 10-		\$6.55	\$6.95						Ì
	T.		lor's p	ledical		Code	7	color a	<b>8</b>					\$4.95		\$6.99		1
	P		a veni	Action Team Medical		Product		natural	luin T		\$6.95	\$7.25	\$5.95	\$5.95	\$8.50	\$7.99	\$9.25	Ì
			Search for a product by a ventior's product	Action	LP1080	Search by Vendor Product Code		nooth,	_								_	-
-			poud a	from ist:	dor's	uch by		ated, sr	Brand	ATM exam gloves	Health Aid exam gloves	CHOT SPECIFIED>	Redwood exam gloves	Micro One exam gloves	<not specified=""></not>	CHOT SPECIFIED>	<not specified=""></not>	
	Charmels		ch for	Select vendor from the following list:	Enter the Vendor's Product Code	Sec		chlorin		ATM e)	Health 9	<not 8<="" td=""><td>Redw</td><td>Micro</td><td>^HOT.</td><td><rot< td=""><td>************</td><td></td></rot<></td></not>	Redw	Micro	^HOT.	<rot< td=""><td>************</td><td></td></rot<>	************	
-	History	İ	Sear	Select the foll	Enter ti Produci	.81 19		d, non-		E _	×	×	×	×	lical	×	ış zin	
-	Favorites		Mellippid (7)	0, 0				owdere	Maniteschires	Action Team Medical	Regaltex	Malaytex	Malaytex	Microflex	Dash Medical	Malaytex	Heraeus Kulzer	
	Search							terile, p	- 57		-tAL	<u>;</u> e	-0. 1	.53.		'R.A	_	
	<b>₹</b>	dse do					*	s: non &	Predist Code	ย่อเลา	ADLGHAL	AD107- 0989	CD1000-	CD565-	CD152- 0711	14GLCRA	11LATLCRS	
-	Refresh	m/Frame						x glove	Vendbe	Mator Tearl	Amold Dentsl Supply	Arrighd Dantal	<u>Carolina</u> Dental Supply	Sarafina Pental Supply	galores Addres served	Fredentss	<u> Eradenzi</u>	
į.	4	chasing co						Lat	<b>0</b> 6 € 3	ictorii istorii	भूट प्राप्त भूट प्राप्त	पुरुष्याद्व राज	Ca. Centa	Ca Derta	Etued Desira	4	Frs	
	<b>⊗</b> gg	lental-purc						.,		over a corpora			ate	. E				
	<b>↓</b> 0 %	Address 😫 http://www.dental-purchasing.com/FrameTop.asp					jory	ct Code	or	ory	art	ate	der Templat	, ii				
4	•	the s			ne	Op By Brand	8y Cate	by Produ	By Product Ind By Vendor	der Hist	) Guidac	View/Edi Recalcul	Save as	Empty t Accol	, c			
1	-J 👸	Address	7.		Home	√Shop					. Sh			ig.	T			

figure14.gif (960x720x256 gif)

Ø.				
	Product İndex ABCDEF <u>G</u> HIJKLANOPORSTUVWXYZ			
wag	Product Index	Product List Gloves		
o Favordes Heb  (G) (C) (A) (A) (A) (A) (A) (A) (A) (A) (A) (A	Prod GHIJKL	Proc Gloves Gold and		
Search Favorites	ABCDEF			
Favories Heb  Stop Refeeth Home	deral purchasing conntrane top asp			
Ede Edd View Go Favories  the Collection of Stope Sto	Trip://www.dertalpuchas	hering cemi	by Category By Manufacturer By Product Code By Vandor rider History emplates hoppingCart View/Edit Recalculate Place Order	e as Templata Ny Coount
Back Led	Address E Into //www	Dontal Purcharing co. Home 7 Shop	By Catego By Manuf By Product By Vandor Order History Y Shopping Ca Viewledt Recalculas	Emply Edit Acc Help

figure15.gif (960x720x256 gif)

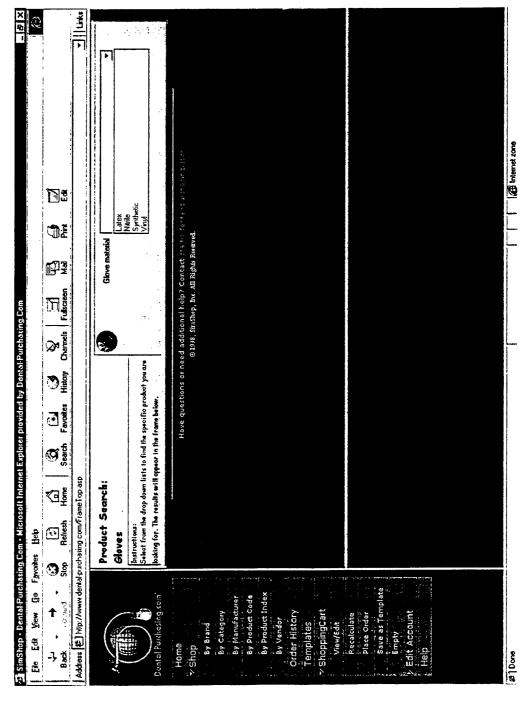


figure16.gif (960x720x256 gif)

×9=	عامقا   <u>[</u> و		In Specified Time Range!
Jentol-Purchasing Com	History Charmels Fullscreen Mai Print Edit	Select Sevings Oucle on 9/13/98 for 15-49.27 Sevings Oucle on 9/13/98 for 15-49.27 Sevings Oucle on 9/13/98 for 13-04.39 Sevings Oucle on 9/14/98 for 11.304.39 Sevings Oucle on 9/14/98 for 11.306 Sevings Oucle on 9/15/98 for 11.306 Sevings Oucle on 9/15/98 for 11.35.17 Sevings Oucle on 9/15/98 for 11.35.17 Sevings Oucle on 9/15/98 for 11.35.17 Sevings Oucle on 10/1/98 for 11.35.17 Sevings Oucle on 10/1/98 for 1895.45 Oucle 120.209 Sevings Oucle on 10/1/98 for 11.05.0 Sevings Oucle on 10/1/98 for 11.05.0	Fill In Start Date and End Date To See List Of All Products Ordered In Specified Time Range!  Start Date End Date  This Product History List of All Products Ordered In Specified Time Range!
SimShop • Dental·Purchasing.Com • Microsoll Internet Explorer provided by Dental·Purchasing.Com   Ge Edit Yew Go Fgroxes Heb	Refresh Hame Search Favorites haring conn/Frame Top asp	Select order from this list:	Fill In Start Date and End Date
SimShop · Dental·Purchasing Co	Back Fourt Stop	Dontal Furthering tear  Home  Schop  Order History  Templates  SchoppingCart  Edit Account  Help	

figure17.gif (960x720x256 gif)

X E	@	Links									
			Ajo	Current	Current	Curent	Curent Price	Surent Price	Surrent Price	Surent First	
			Note H.	Purchase Details	Purchase Details	Purchase Detads	Purchasa Deseile	Purchase Cetade	Purthase Lietada	Per hare Delade	
		PATC's Historical Product List For 01/01/1998 To Today	Brand 1 Description	#0 std (7/8" x 1 3/8") X-Ray film speed D ("ultraspeed") 1 film vinyl packet, box of 100 packets	#13T anatomically shaped green Sycamore wood wedge (Premier), box of 400 wedges.	#2 std (1 1/4" × 1 5/8") X.Ray film speed D ("ultraspeed) 2 film vinyl packet, box of 150 packets	#30D green perforated lower right/Upper left plastic impression tray, box of 12 trays.	#31D green perforated lower lefVupper right plastic impression tray, box of 12 trays.	2N #2 medium (non-impregnated) braided yann retraction cord, tube of 120" cord (material not specified)	Bupivacaine 0.5% local anesthetic with epinephrine 1:200,000, 1 can of 50 (1.8ml) carpules	Par Internet zone
hasing. Com	rels Fullscrean	orical /1998 7	Erand A	Ultraspeed DF-54	Sycamore wedges (Premier)	Ultraspeed DF-57	Spacer Trays (GC America)	Spacer Trays (GC America)	GingiBraid retraction cord	Marcaine	
d by Dental-Purc	History Channels	o1/01	Monufact	Kodak	Premier	Kodak	GC America	GC America	Van R	Kodak	
hasing.Com • Microsoft Internet Explorer provided by Dental Purchasing.Com	Search Favories	PATC	Product Code	AD111-2822	AD378-0937	AD111-4404	AD333-6977	AD333-0175	AD135-7182	AD856-7407	
Microsoft Interne	Heb	con/frame lop asp	Yendor	Arnold Dental Supply	Arnold Dental Supply	Amold Dental Supplie	Arnold Dental Supply	Arnold Cental Supply	<u>Amold</u> <u>Dental</u> <u>Supply</u>	20014 10019 10018	
ing. Com	Favorites He	urchasing of									
SimShop • Dental-Purchasi	File Edit View Go Fav.	Soutal Purchesing com	Shop Order History	> ShappingCart > Edit Account	Help						9

figure18.gif (960x720x256 gif)

2 SimShop • Dental-Purchasing Com • Microsoft Internet Explorer provided by Dental-Purchasing Com	Com • Micros	soft Interne	t Explores	provided	by Dental	Purchasin	g. Com			XIGI-
1.3	1 (1) the	包重	<b>©</b>	Favorites	History	Charmels	្រាទ្ធិ	E S	T.	<u> </u>
Address   [2] http://www.dental-purchasing.com/FrameTop.asp	hasing com/Fra	gse do James								V   Links
(Bar )										
			entral	Cust	pm Tem	Custom Templates	1	8	L piepu	Standerd Templates
Dantol Furchesing tem Home S Shop Order History				Or C's favorite burs test for RT group	group			Orders Orders Orders Orders	Orders From Lost 30 De Orders From Lost 60 De Orders From Lost 90 De Orders From Lost 180 D Orders From Lost 7 eer	Orders From Lost 30 Days Orders From Lost 60 Days Orders From Lost 90 Days Orders From Lost 180 Days Orders From Lost 1 rear
ShoppingCart  Edit Account  Help			* 14. *	To Load rom One	a Templa of the Li	ate Into ists Abov	Your Shop	ping Car the "Loa	rt, Chao ad Temp	*To Load a Template Into Your Shapping Cart, Choose a Template From One of the Lists Above and Hit the "Load Template" Button.
			* * * * * * * *	To Edit a emplates To Delet emplates Standaro	a Templa : List and e a Tem : List and I Templa	ite, chood hit the plate, ch	*To Edit a Template, choose a template from the Custom Templates List and hit the "Edit Template" Button. *To Delate a Template, choose a template from the Custom Templates List and hit the "Delete Template" Button. *Standard Templates Cannot Be Edited OR Deleted.	ate fron olate" Bu nplate fr implate" ed OR D	n the Cu utton. rom the Button. eleted.	stom Custom
				Load	Load Template		Edit Tëmplete	169	Delete	Delete Templete
				Kaup aveH	tions or ne	eed additio	ad additional help? Contact हो। हो। © 1998, Smithey, bix. All Righb Reserved.	ontact 🗥 Righs Rec	Till dente	Have questions or need additional help? Contact (라인트라마라마라마라마라마마마마 © 1998, Sinthep, bit. All Nights Regived.
in the second									1.1.1	American some

figure19a.gif (960x720x256 gif)

×	Q		Links	₹ :	/																_			1	
	*		Ē																						
				90																					
				You can change quamples by replacing the current quantity with a new one To remove a product emitely, change the quantity to zero																					( Internet zone
		<b>D</b> 2		antig with ero		) cart.	cart.	ig cart.	t.	g cart.	geart.	geart.	art.	art.	cart.	g cart.	ng cart.	ng cart.	ing cart. ing cart.	ng cert.	g cart.	cart.	יון בפוני יור.	£ £	<b>—</b>
		Œ.		urrent qua		ըստեցույց ըստեցույց	Shapping	shoppin	oping car	uiddoys ,	shopping shopping	aniddous	opping c opping c	opping c	anddous	shopping shopping	r shoppin	r shoppii	ur shopp ur shobb	r shoppiir	shoppin	shapping shapping	middalis Sping car	pping ca	
		<b>P</b> Z		cing the c 3= the q1		to your to your	to your	7 to your 5 to your	your sha	to your	to your to your	to your	your sh	yeur sh	to your	to your	3 to you	U ta you	AU to yo	U to you	) to your	to yeur	your sha	your sho	
ng Com		Figures L		: by repla rely, chan		35-7182 78-0937	01-5385	333-697	4739 to	111-440	56-0233 56-3210	56-7407	12459 to	12475 to	54-1119	11-2378	9 <b>2</b> 6-848	02510CA 588515CA	-02520C -02520C	02530CA	GGD3CAL	30SMON 547-F36:	5052 to	5009 to	
Purchasi		Charmels		You can change quantities by replacing the current quantit To remove a product emirely, change the quantity to zero		duct AD1 duct AD3	duct AD1	oduct Ab	roduct 1.	oduct AD	duct AD9 duct AD9	duct AD8	oduct 20 oduct 20	aduct 20	duct CD7	duct CD1	oduct CD	Juct 05F	oduct OS	duct OSF	oduct OS	oduct 02 oduct 08	roduct 1	roduct 1	
by Denta		History		n change ore a pro		it of Provi	it of Proci	its of Pro its of Pro	nits of P	ts of Pro	it of Proc it of Proc	it of Pro	its of Pro its of Pro	its of Pro	it of Proc	it of Pro	its of Pro	it of Pro	ts of Pro	it of Pro	its of Pro	its of Pro	nits of P	nits of Pro	
provided		Favorites		You es To rem		fed 1 un	ded i un	ted 4 un	ted 20 u	ted 2 un	ded 1 um ded 1 um	ded 1 un	ted 6 un	ded 4 un	ded 1 un ded 4 un	ded 1 un	ded 2 un	ded 1 un	had 2 und	ded i un	ded 2 un	ded 4 un	n os par ded 30 u	ded 30 u ded 5 un	
el Explore		Search				✓ Successfully added 1 unit of Product AD135-7162 to your shapping cart. ✓ Successfully added 1 unit of Product AD378-0937 to your spacenic part.	Successfully added 1 unit of Product AD101-5385 to your shopping cart.  Successfully added 1 unit of Product AD222-5589 to your shopping cart.	Successfully added 4 units of Product Ap333-6977 to your shopping cart. Successfully added 4 units of Product Ap333-0175 to your shaming part	Successfully added 20 units of Product 14729 to your shopping cart.	Successfully added 2 units of Product AD111-4404 to your shopping cart.	Successfully added 1 unit of Product AD856-0233 to your shopping cart. Successfully added 1 unit of Product AD856-3210 to your shopping cart.	Successfully added 1 unit of Product AD856-7407 to your shopping cart.	successially abused a brills of Product 2012457 to your shapping cart. Successfully added 6 units of Product 2012459 to your shapping cart.	Successfully added 4 units of Product 2012-175 to your shapping cart.	Successfully added 1 unit of Product CD754-1119 to your shopping cart.	Successfully added 1 unit of Product CD111-25/9 to your shopping cart.	Successfully added 2 units of Product CD356-8483 to your shopping cart.	Successfully added 1 unit of Product 05F02510CAU to your shopping cart.	Successfully added 2 units of Product Osfo2520CAU to your shapping cart. Successfully added 2 units of Product OSFO2520CAU to your shapping cart.	Successfully added 1 unit of Product 05F02530CAU to your shapping cart.	Successfully added 2 units of Product DSGCD3CAU to your shapping cart.	Successfully added 4 units of Product 02305MON to your shapping cart.	Successfully added 30 units of Product 15052 to your shapping. Successfully added 30 units of Product 15052 to your shapping cart.	Successfully added 30 units of Product 15009 to your shopping cart.  Successfully added 5 units of Product 382510 to your shonning part.	
soft Intern		<b>4</b>	dse do Jame		Actions:	Succes	Succes	Succes	Succes	Succes	Succes	secons,	Sacces	sacons	Succes	Sacces	Succes	Succes	Sacces	sacons _	Sacces	Succes	Sacces	sacces	
om • Micro	Rep Per	Refresh	sing com/Fr		Ac	21	200	20	10	D.	30	De	S CE	D	DI	20	D	200	98	B	B.	D)	) /2	19 6	
hasing Co	Go Favories Help	<b>3</b> log	miai-purcha						7 2.																
ental·Pur	Yew Go	Forward	p://www.de			වූ ලබා දැන	, viol	· .	Cart																
🚰 SimShop • Dental-Purchasing.Com • Microsoft Internet Explorer provided by Dental-Purchasing Com	<b>5</b>	가 X	Address 😫 http://www.denial.purchasing.com/FrameTop.asp			Vontal rurchasing.com Hame	Shop Order History	Templates	ShoppingCart Edit Account	clap															
7)	E.	<b></b>	Add	4		, , , ,			Д. Д.	735 I															8

gif)
ð
9
S
3
ö
2
$\mathcal{C}$
ô
9
9
(960×720×256
.gif

(2)		- Links	1			-						
						History	<u>Pyrchasa</u> History	Pyrchaeg History	Purchase History	Purchase History	<u> 71:35:Н</u> Эхечэ-о-д	-
						Ext.	\$4.80	\$24.95	\$19.55	\$8.25	\$23.80	
						Quan.	_		Ŀ	E	4	
	D:		휥			Unit Price	\$4.80	\$24.95	\$19.55	\$8.25	\$5.95	
	n Mail Plin		Successfully added 5 units of Product 392524 to your shopping cart,			Description	2N #2 medium (non-impegnated) braided yarn retraction cord, tube of 120° cord (material not specified)	#13T enatomically shaped green Sycamore wood wedge (Premiler), box of 400	Mauve, plain rectangle (13 1/2" × 18") 3 ply paper/1 ply poly patient bib, case of 500 bibs	Fast set alginate, 1 pound can.	#30D green perforated lover right/upper left plastic impression tray, box of 12 trays.	#31D green
	Channels Fulsacen		ıct 382524 to			Brand	GingiBraid retraction cord	Sycamore wedges (Premier)	Tidi Brand Deluxe bib	Jeltrate alginate (Dentsply / Caulk)	Spacer Trays (GC America)	Sparer
	History		units of Produ			Manufact.	Van R	Premier	Banta Healthcare	Dentsply / Caulk	GC America	
	Search Favorites		sfully added 5 i		Current Shopping Cart:	Vendor Côde	AD135-7182	AD378-0937	AD101-5385	AD222-5589	AD333-6977	
	<b>₹</b>	/FrameTop asp	Sacces 🧷		Current	Vendor	Amold Dental Supply	<u>Amold</u> <u>Dental</u> Supply	Arnold Dental Supply	Arnold Dental Supply	Amold Dental Supply	\$mob!
Favortes Heb	Stop Refersh	urchasing com		38		10 10 A. 10 A.						
File Edit Yew Go Favorites Heb		Address (2) http://www.dental.purchasing.com/FrameTop.asp				Dantal Purchasing cami	Shop Order History Templates ShoppingCart	Δ Gle H				

figure20.gil (960x720x256 gif)

<b>(1)</b>		- Links	1	1 S. Carrentes of	r week							Ī
							OK	OK	OK	OK OK	Š.	
						Out of the second	L	L	L	L	L	
			the	on the	plate	one One One One One One One One One One O		L	L	L	<u>+</u>	
	<b>D</b> 3		actly in	or eliek o Button. Temela	rempla	- 14	non- ed yam of 120"	shaped wood sox of	gle (13 aper/1 case of	punod	rated t plastic x of 12	rated
	Œ.		mber dire	extbox c nplate" {	e Enume : the "Lo	cription	2N #2 medium (non- pregnated) braided y, action cord, tube of 1 cord (material not specified)	.3T anatomically shape green Sycamore wood edge (Premier), box o 400 wedges.	lain rectan 8") 3 ply p. setient bib, 500 bibs	ginate, 1 can,	#30D green perforated ## right/upper left plas npression tray, box of 1 trays.	#31D green perforated
	<b>P</b> ¥	4 1	the num	in the te rder Ten	e Delet	P. Description	2N #2 medium (non- impregnated) braided yam retraction cord, tube of 120" cord (material not specified)	#13T anatomically shaped green Sycamore wood wedge (Premier), box of 400 wedges.	Mauve, plain rectangle (13 1/2" x 18") 3 ply paper/1 ply poly patient bib, case of 500 bibs	Fast set alginate, 1 pound Can,	#30D green perforated flower right/upper left plastic impression tray, box of 12 trays.	#31D green perforated
			change	pe a "O" nn. "Save O	mplates P							
ĺ	Charmels		, simply	ither ty re colun Hit the	tof Te		GingiBraid retraction cord	Sycamore wedges (Premier)	Tidi Brand Deluxe bib	Jeltrate alginate (Dentsply Caulk)	Spacer Trays (GC America)	Spacer
	History Cp		*To change a quantity, simply change the number directly in the	The second of the second of the second of the second of the checkbox or click on the checkbox in the Remove column.  To Save all changes, Hit the Wase Order Template" Button.  To Sloke a the Template change in the shall have beginn Template.	button. *To go back to the List of Templates Page, hit the "Load Template Page" Button.		Van R	Premier	Banta Healthcare	Dentsply / Caulk	GC America	3
	Favore .		*To change	remove remove Skbox in Save a	Button. *To go back t Page" Button.		182	7560			2269	
	Search Start		*To	* To * To * To * To * To * To * To * To	Button, *Togo Page" B	W. Code	AD135-7182	AD378-0937	AD101-5385	AD222-5589	AD333-6977	
	<b>₹</b>	Address (老] http://www.dental-purchasing.com/FrameTop.asp				10 11	Amold Dental Supoly	Amold Pental Supply	<u>Amold</u> Dental Sapoly	Amold Pertal Supply	<u>Amelo</u> Danzai Sirpoly	birmig
鲁	Referen	ng com/Fr					7 - 7 0 11					
Favorites	<b>3</b> §	al-purchasi		1	,	e e e e egana						
යි	F-G	www.den		e.S		4						
File Edit Yew	†	) http://		Dontal Purchasing, cam.	Shop Order History Templates	ShoppingCart Edit Account Help						
Fe Ed	-} 첉	ddress &		ontal Pu Home	) Shop Order Histo Templates	/ ShoppingCar / Edit Account Help						

_
•
gif)
Ξ
Q,
_
œ
(960x720x256
$\sim$
×
0
$\sim$
~
~
=
=
44
-
git
_
Ni.
'n.
~
=
≍
ú
_
tigure21.

		<u>₹</u>		EXT. HISTORY		\$11.99	<b>\$13.25</b>	\$13.50	\$29.49	\$96.18	Save As Template	
	F.	a new one		Quan	L	01	L	L	L	Total:	S	
	D.S.	ntsy with a	÷	Unit	\$27.95	\$1.20	\$13.25	\$13.50	\$29.49	Ţ	Create Quote	-purchasir
	D.E	rent qua city to ze			16") X- > ( Paper padets	de bur	esthetic 30,000, arpules	esthetic 00,000, arpules	(16") X- D ( paper packets			affilidenta
	<b>₽</b> ₹	ng the cu		Description	td (15/16" x 1 9/16 Ray film speed D ( iraspeed") 1 film pa ket, box of 100 pac	FG #1/4 round carbide bur	% local an phrine 1:14 (1.8ml) o	% local an phrine 1:1 (1.8ml) (	1 std (15/16" x 1 9/16") X Ray film speed D ( "ultraspeed") 1 film paper sacket, box of 100 packets		s/so	Contact <u>t</u>
g. Com	ភាទ្ធិ	by replaci ety, chang		eg .	#1 std (15/16" x 1 9/16") X- Ray film speed D ( "ultraspeed") 1 film paper packet, box of 100 packets	FG #1/4 n	Udocaine 2% local anesthetic with epinephine 1:100,000, 1 can of 50 (1:8ml) carpules	idocaine 2% local anesthetic with apinephine 1:100,000, 1 can of 50 (1,8ml) carpules	#1 std (15/16" x 1 9/16") X- Ray film speed D ( "ultraspeed") 1 film paper packet, box of 100 packets		Zero Otys	nal help? (
ental-Purchasin	History Channels	You can change quantities by replacing the current quantity with a new one To remove a product entirely, change the quantity to zero.		Brand	Ultraspeed DF-56	<not SPECIFIED&gt;</not 	Lignospan	Lidocaine	Ultraspeed DF-56		Empty Cert	Have questions or need additional help? Contact <u>thaff</u> ind <u>antal pusmastna.tom</u>
er provided by C	Favorites	You can ch To remove	g Cart:	Manufack	Kodak	S.S. White	Septodont	Kodak	Kodak		Place Order	Have question
net Explor	Se do	d.	Shoppir	Vendor Code	AD111-	17839	CD228- 1649	CD856- 8483	127- 3747			
crosaft Inte	₹E\$	derlal purchasing com/Frame Top asp	Current Shopping Cart:	Vendor	Arnold Dental Supply	Arnold Dental Supply	Carolina Dental Supply	Carolina Dental Supply	Palm Beach Dental		Recoloulate	
Com - Mic		nasing com	-01	and the second								
SimShop • Dental Purchasing Com • Microsoft Internet Explorer provided by Dental Purchasing Com   Fas Fife View Go Favories Heh	Testing A	El Hity://www	Contal Purchasing.com	Home / Shop	Order History Templates 7 ShoppingCart	Viaw/Edil Recalculate Place Order	Save as Template Empty	Help				

figure22.gif (960x720x256 gif)

		T Links	n ŝ		Ext. History	\$27.95	\$11.99	¢n.nn REMOVE	\$13.50	\$29.49	\$82.93	Save As Template	
			a new on		Ç.		<u>e</u>	<u></u>	L	_	rotal:	Save	
	<b>1</b> 12		atity with ro.		Unit	\$27.95	\$1.20	\$13.25	\$13.50	\$29.49	ī	Create Quote	
	Fultoreen Mail Print		You can change quantities by replacing the current quantity with a new one. To remove a product entitely, change the quantity to zero.		Description	#1 std (15/16" x 1 9/16") X- Ray film speed D ( "ultraspeed") 1 film paper packet, box of 100 packets	FG #1/4 round carbide bur	Lidocaine 2% local anesthetic with epinephine 1:100,000, 1 can of 50 (1.8ml) carpules	Lidocaine 2% local anesthetic with apinephrine 1:100,000, 1 can of 50 (1.8ml) carpules	#1 std (15/16" x 1 9/16") X- Ray film speed D ( "ultraspeed") I film paper packet, box of 100 packets		Place Order : Empty Cart Zero Otys Ceale	
	(3 & WHistory Charmels		hange quannties s a product entra		. Brand	Ultraspeed DF-56	«NOT SPECIFIED»	Lignaspan	Lidocaine	Ultraspeed DF-56		Empty Cart	
	Favories		You can e To remove	g Cart:	Manufact	Kodak	S.S. White	Septodont	Kodak	Kodak		lace Order?	
	Search	Đ.		Shoppin	Veridor Code	AD111- 7655	17839	CD228- 1649	CD856- 8483	127- 3747			
۵	Refresh Home	om/FrameTopa:		Current Shopping Cart:	Vendor	Amold Dental Supply	Arnold Dental Supply	Carolina Dental Supply	<u>Carolina</u> Dental Supply	Palm Beach Oental		Receipulate	
ravortes Hep	Stop Ref	l-purchasing c					are the booms of the						
File Edit Year Go Fa	र े किय Back े कव	Address は http://www.dentalpurchasing.com/FrameTop.asp		Dental-Purchasing.com	Hame Shop	Order History Templates 7 ShoppingCart	View/Edit Recalculate Place Order	Save as Template Empty	Heip				

figure23.gif (960x720x256 gif)

1127   127	Search Favodes History Charactis Editories Mail Pind Edit	Go Favorites	Rep Per									
Current Shopping Cart:  Current Shopping Cart:  Current Shopping Cart:  Current Shopping Cart:  Current Shopping Cart:  Current Shopping Cart:  Current Shopping Cart:  Current Shopping Cart:  Current Shopping Cart:  Code  ALTOIG Code  ALTOIG Code  ALTOIG Code  ALTOIG Code  Current Shopping Cart:  Carolina  Code  Carolina  Ca	To remove a product entirely, change the quantity to zero.  To remove a product entirely, change the quantity to zero.  To remove a product entirely, change the quantity to zero.  Bendin Mainteett Elibrid	Sog S		:	Favories			:	<b>M</b> 3	İ		į
Current Shopping Cart:   Vendor   Coulons a product enrichy, change the quantity to zero   To remove a product enrichy, change the quantity to zero     Vendor   Code   Monutact   Erich	Current Shopping Cart:  Current Shopping Shop	lental-purcha	sing com/FrameTo	dse d								
Current Shopping Cart:   Carridor   Veridor   Code   Mightifacts   Brain   February   Code   Mightifacts   Brain   February   Code   Mightifacts   Code	Current Shopping Cart:   Canton   Vendor   Code   Manufact   Elizate   Code				You can To remov	change quanthi re a product ent	s by replacing irely, change t	the current qua	antity with ero.	a new on	ų.	
Vendor   Vendor   Code   Cod	Venidor Code         Venidor Code         Monutact         Brond           Armold Code         Anoutract         Brond         *** rad (15715**********************************		Currer	at Shoppir	ng Cart:							
Armold   7655   Kodak   Ultraspeed   **1 std (15/16* x 19/16*) X**   \$27.95   T   \$27.95   Entrain   7655   X   20   20   20   20   20   20   20	Arnold   Application   Appli	12 K. 1	Vendo				Desc	dption .	Units Price		Price Price	History
Armold   17839   S.S. White   SPECIFIED>   FG #1/4 round carbide bur   \$1.20   10   5.00ptly   S.S. White   SPECIFIED>   FG #1/4 round carbide bur   \$1.20   10   5.00ptly   Supply	Arnold   17839   S.S. White   SPECIFIED>   FG #1/4 round carbide bur   \$1.20   10   5.00pt/2		Arrold Cental Supply	<del></del>	Kodak	Ultraspeed DF-56	#1 std (15/16 Ray film "ultraspeed" packet, box	" x 1 9/16") x- speed D ( ) 1 film paper of 100 packets	\$27.95	L	\$27.95	
Carolina   CD856	Carolina   CD856		Arnold Dental Supply		S.S. White	<not SPECIFIED&gt;</not 	FG #1/4 rour	nd carbide bur	\$1.20	<u>e</u>	\$11.99	
127- Kodak Ultraspeed Ray film speed D ( Ray film speed U ( Tables D ( Tables	127- Kodak Ultraspeed Ray film speed b ( Ray film speed b ( DE-56 Pedet, box of 100 packets Total:  Place Order Empty Cart Zero Qty's Certae Quote Total:	Save as Template Empty (+ Account	Carolina Dental Supply		Kodak	Lidocaine	Lidocaine 2% with epinephr 1 can of 50 (1	local anesthetic ine 1:100,000, i.8ml) carpules		<u></u>	\$13.50	
Total:   Place Order   Empty Cart   Zero Qty's   Create Quote	Place Order Empty Cart Zero Qty's Create Quote Have questions or need additional help? Contact Transfer Author, Inc. All Riptu Restrict.		Palm Beach Dental	127- 3747	Kodak	Ultraspeed DF-56	#1 std (15/16 Ray film "ultraspeed" packet, box	" x 1 9/16") x- speed D ( ) 1 film paper of 100 pæckets	\$29.49	L	\$29.49	
Place Order Empty Cart Zero Qty's Create Quote	Place Order Empty Cart Zero Qty's Create Quote Have questions or need additional help? Contact									rotal:	\$82.93	
Place Order Empty Cart. Zero Oty's Create Quote	Place Order Empty Cart. Zero Chy's Coeste Quote Francisco Coeste Court Coeste Court Coeste Court Coeste Court Coeste Court Coeste Coest		the property of the post of			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
	Have questions or need additional help? Contact <u>มาการประการ การการ</u> ® 1978, รัการกะคุ. หะ. All ชิฮุ่ม Restvid.		Recalcu		Pace Order	Empty Car			de Quote		Save As T	emplate

figure23a.gif (1024x768x256 gif)

		Links	.4											all			· produce use	[		1000
				Purchase	Purchase	HISTORY		Purchase History		Purchase	History	Purchase History		<u>Furchase</u> <u>History</u>	Purchase	History			Femplate	A HALL THE SECTION AS
				\$23.98	\$33.56			\$28.47		<b>€30 07</b>	\$35.36	\$32.97		\$24.95		\$24.95	\$818.50		Save As Template	1
				2	4			3		or.	امرا	30		<u>27</u>		2	Total:		- 100 1	
	<b>2</b>			\$11.99	\$8.39			\$9.49		4	07:74	\$1.10		\$4.99		\$4.99			Create Quote	
	.F.		DOX OF OTHER	#3 Gates Glidden drill, 32 mm, box of 6 drills.	Sterile disposable 30 gauge short (1") metal hub	needles, box of 100 needles	6" x 6" rubber dental dam, medium gauge,	assortment of plnk, blue, and burnle, 1 square	yard box (36 pieces of 6" x 6")	FG #245 carbide	bur	FG #558 carbide bur	FG #7901 12	blade needle shaped finishing bur	FG #7408 12	blade egg shaped finishing bur			12234	
	<b>1</b>		A XOO	#3 Gates drill, 32 a	Sterile di 30 gaue (1") me	needles 100 n	6" × 6" denta medium	assort plnk, bi	yard b	FG #24	٩	FG #558	FG #7	blade shaped d	FG #7	blade eg finishi			Zero Qiy's	Contract of the last
	Fulscreen			डा		· · · · ·	والمراود المراود والمراود	mail lineran	Silven 6	diam'n'	Arichia Arichia	A CANADA	. Parkin	A.			. <u>1</u> 2901		1	\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \
	oy Channels		y Dental					\$0.00	\$0.00	\$32.97	\$32.97	\$32.97		Lead .	\$32.97			n spile a sem		
	Favorites History		er provided b											Unitprice	\$1.10			Historial pr		
	Search Fr		rnet Explore	ntal	bide bur		3.3 3.3	0	o	30	30	30		Aggueno	30	- m	s	Contact its	Al Rights Rese	Contempt zone
deb	Refresh Home	sing.com/FrameTop.asp	hase History - Microsoft Internet Explorer provided by Dental	Palm Beach Dental sr: S.S. White NOT SPECIFIED	FG #558 carbide bur		Totals							Furchase History	10/2/98 7:10:00 AM	Close		ons or need additional help? Contact <u>ಕಾಣಿಕ್ಷಣಿತ್ರವಾರುವಾಣವಾಣಗಾ</u>	O 1998, Sim Shop, Inc. All Rights Reserved.	100
View Lio Favorites	Forward Stop	Address 😰 http://www.denkal-purchasing.com/FrameTop.asp	Product Purchase h	Vendor: Manufacturer: Brand:			Time Frame	sye(	Last 90 Days	Last 180 Days	Last Year	All Orders		Froduct Furc				Have questions or		
Fae Edit	-}-¥	Address [2] h	9		Dental Per	Home	> Shop Order	Templ.	Vie	Rec	Sav	Emp Edit A	Help							

figure24.gif (960x720x256 gif)

X Q -		- Links	ग						772.4			tames - des sincerenants annues que es estatementes depares e
					Your Vendor	VendorA	Vendor A	Vendor B			or Printing	Zone
	<b>1</b> 2				Your Unit Price	31.95	11.40	14.95			Embed Text For Printing	( Internet zone
			ເດກີ		Your Ext. Price	\$31.95	\$14	\$1495	3	H/S \$014		
	Mail (1)		Dontal Purchasing.com	Samago Cueta	EXE.	\$27.95	\$11.99	\$13.50	\$29.49	\$82,93 Plus 8/H	Cencel Quote	
sing.Com	t Futbocen		Dental Pu	() () () ()	AST AST AST AST AST AST AST AST AST AST	\$27.95	\$1.20	\$13.50	\$29.49	rotal:	8	
tal-Purch	Charmels				otion	/16" × 1 tay film D ( I') 1 film cet, box ackets	round	2% local tic with hrine 1 can of carpulas	/16" × 1 Ray film I D ( f") 1 film ket, box ackets	•	Email	
led by Der	les History				Description	#1 std (15/16" x 1 9/16") X-Ray film speed D ( "ultraspeed") 1 film paper packet, box of 100 packets	FG #1/4 round carbide bur	Lidoceine 2% local anesthetic vith epinephrine 1:100,000, 1 can of 50 (1.8ml) carpules	#1 std (15/16" x 1 9/16") X-Ray film speed D ( "ultraspeed") 1 film paper packet, box of 100 packets		Send Quote via Email	
daret pravi	Search Favorites				Vendor	AD111-	17839	CD8 <b>S6~</b> 8483	127- 3747		Send .	
nternet Exp	1	dse d			Vendor	Arnold Dental Supply	Arnold Dental Supply	<u>Carolina</u> Dental Supply	Palm Beach Dental		To Account	
richasing.Com • Microsoft Internet Explorer provided by Dental-Purchasing.Com o Favortes Heb	Refresh Home	Address 😫 http://www.dental-purchasing.com/FrameTop.asp				,		5				
hasing.Com·Mi Fgvorites Help	Stop	purchasing										
al-Purchas <u>G</u> o Fg	S Fig	www.dental-			,E 83 4			mplate				
2 SimShop · Dental·Pu File Edit Yiew G	<b>↓</b>	#] http://	(		reherin	Shop Order History Templates ShoppingCar	View/Edit Recalculate Place Order	Save as Ter Empty Edit Account	c			
23 SimS File	-7 <u>%</u>	Address			Dental Pur	Order Temp		T	Help			6

figure25.gif (960x720x256 gif)

Above him  A sole him  A we have placed your order history into our system. Your order is on the right while the lowest prices in our database are listed our return to the main search page of <u>Dental-Purchasing Com</u> and select Order History, you will be able to use this quate as ext order. You will, of course, be able to use this pre-formed shopping cart as is or modify it to match your current needs. We and you save time and money on your dental supply purchasing. Please let us know if there is any other way that we can be of the price of the p	Your order is on the sing Com and select ( -formed shopping capurchasing, Please le purchasing, Please le purc	let us know if	the lowes y, you will loadify it to there is a rour Ext.	t prices in our be able to use on match your country other way.  Your Unit Price	Your Vendor
d your order history into our system. main search page of <u>Dental-Purchass</u> ill, of course, be able to use this pre- ie and money on your dental supply page and money on your dental supply page and money on your dental supply page and money on 19/16" x. 19/16" x. Ray film speed D speed 1 15/16" x 1 9/16") x. Ray film speed D	Your order is on the ing-com and select of formed shopping canonicating. Flease languages from the following selection of the fol	right while order History it as is or mutus know if the control of	y, you will oddity it to there is there is Your Ext.	t prices in our be able to use of match your cure many other way your Unit price	rins quote urrent need that we can vendor
iii, of course, be abe to use this pre- ie and money on your dental supply plants.  Selection of the part of the speed by speed b	ourchasing. Flesse land the state of the sta	t us know if the k	Your Ext. Price	Your Unit	Your Vendor
std (15/16" x 1 9/16") x.Ray film speed D	\$27.94 \$27.94	\$27.95	Carrier C	ALL CONTRACTOR OF THE PARTY OF	Your Vendor Vendor
std (15/16" x 1 9/16") K.Ray film speed D speed") I film paper packet, box of 100 pax		\$27.95	76 18		X Budden
	\$1.20	\$11.99	とう かんかっとく		
FG #1/4 round carbide bur		· i	\$14.00		0.7
e 2% local anastheuc with epinephine 1:100 can of 50 (1.8ml) carpules	3,000, 1 \$13.50	\$13.50	\$14.95	1 26 MA	Vendor 8
l std (15/16" x 1 9/16") X-Ray film speed D speed") 1 film paper packet, box of 100 pa	( \$29.49	\$29.49	00-165		T 11/2 12 2 Jupus 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	Total:	\$82.93 Plos S/H	\$92.39 Plus 8/H		
	2% local anasthetic with epinephine 11100 can of 50 (1.8ml) carpules std (15/16" x 1 9/16") x.Ray film speed D beed") 1 film paper packet, box of 100 pa	Lidocaine 2% local anasthetic with epinephrine 1:100,000, 1 can of 50 (1.8ml) carpules  #1 std (15/16" x 1 9/16") X-Ray film speed D ( "ultraspeed") 1 film paper packet, box of 100 packets    Total:	\$13.50 \$13.50 \$29.49 Total:	\$13.50 \$11.99 \$5 \$13.50 \$13.50 \$1 \$29.49 \$29.49 \$9 Total: \$82.93 \$9	\$13.50 \$11.99 \$13.50 \$13.50 \$29.49 \$29.49 Total: \$92.93

tigure26.gif (960x720x256 gif)

🚰 SimShop • Dental-Purchazing Com • Microsoft Internet Explorer provided by Dental-Purchasing Com	ng.Com •	Microso	ft Interne	Explorer	orovided b	y Dental	Purchasir	ig.Com				× 191 -
File Edit Yiew Go Favo	Favorites He	Heb										<b>(1)</b>
Description of the state of th		Refersh	<b>₹</b>	Search Search	Favorites	History	Sylved Sylved		<b>P</b> 3	<b>1</b>		
Address (2) http://www.dental-purchasing.com/FrameTop.asp	uchasing c	com/Fram	eTop asp									4     sks
						USEPHE	Q şnoia	E Frevious Orders Safrenbiate Jose A New	Templa	e Jor e	MI	
Contal Furchasing com					Sele orde from list:	Select order from this list:	Sevin Sevin	Sevings Ouote on 9/14/98 for \$219.68 Sevings Ouote on 9/14/98 for \$379.70 Sevings Ouote on 10/19/98 for \$379.70 Sevings Ouote on 10/19/98 for \$379.70	n 9/14/98 i n 9/14/98 i n 10/19/98	for \$219.6 for \$379.7 ifor \$379.	0	
Shop Order History							Start	a, Start With Selected Order	Xad Order			
Femplates  ShoppingCart  Edit Account	FIIIF	n Sta	rt Dat	e and E	nd Da	te To	See Lis	st Of All	Produ	cts Or	Fill In Start Date and End Date To See List Of All Products Ordered In Specified Time Rangel	Range!
dal						<u>  </u>	Start Date End Date	ie ie				
						l regel	View	View Product Helox List	ST VOIS	2		
6							L		[-  -		Internet your	

figure27.gif (960x720x256 gif)

		الع الع				r the make any of the		1	10	1	Ħ	
-	Fig.		(32)場ででは	View Shopping Cert		Your current shopping cart is listed below. If you are satisfied with your order, fill in a name for the template and click on the Save Template! button at the top of the form. If you would like to make any changes to the items on this order, click and the View Shopping Cart button at the top of the page.		#1 std (15/16" × 1 9/16") K-Ray film speed D ( "ultraspeed") 1 film paper packet, box of 100 packets	FG #1/4 round carbide bur	Udocaine 2% local anesthetic with epinephrine 1:100,000, 1 can of 50 (1.8ml) carpules	#1 std (15/16" x 1 9/16") x-Ray film speed D ( "ultraspeed") 1 film paper packet, box of 100 packets	
	Fulscieen Mail		Sive Your No. Order Tangle's High		ms 	you are satisfied cutton at the top : OR hit the View		Ultraspeed DF- S6	<not SPECIFIED&gt;</not 	Lidocaine	Ultraspeed DF- 56	
	G & S		Seve Your	Save Order Template	in Frequently ordered items	is listed below. If tave Template! lis is order, click and		Kodak	S.S. White	Kodak	Kodak	
	ch Favories				Ē.	ping cark con the S ems on th	Nones.	AD111- 7655	17839	CD856- 8483	127- 3747	
	Home Search	ame Top asp			****	ur current shop nplate and click anges to the ite ge.		Arnold Dental Supply	<u>Arnold</u> <u>Dental</u> <u>Sugply</u>	Carolina Dental Sumbly	Palm Beach Dental	
r Heb	er ig	Assing com/F				Your templ chang page.						
o Favories	<b>⊗</b> &	dental-purch		·,								
File Edit Yew Go	Pack Forward	Address 性 http://www.dental-purchasing.com/frameTop.asp			Home	Shop Order History Templates ShoppingCart Edit Account	Help					

figure28.gif (960x720x256 gif)

SimShop • Dental-Purchasing Com • Microsoft Internet Explorer provided by Dental-Purchasing Com Fie Edit Vew Go Favorles Heb	A	rame Top asp	Frequently ordered liens Orders From Last 60 Days Orders From Last 90 Days Orders From Last 190 Days Orders From Last 190 Days Orders From Last 190 Days		*To Load a Template Into Your Shopping Cart, Choose a Template From One of the Lists Above and Hit the "Load Template" Button.	*To Edit a Template, choose a template from the Custom Templates List and hit the "Edit Template" Button. *To Delete a Template, choose a template from the Custom Templates List and hit the "Delete Template" Button. *Standard Templates Cannot Be Edited OR Deleted.	Land Templote 2 Statistism 1 Delete Templote 2	Have questions or need additional halp? Contact 12 cdfink-outslid reshalls being 0 1988, Smithip, bei All Rights Received.	Milenet zone
m • Microsoft Interne Heb	Refresh Home	g com/FrameTop asp							
SimShop · Dental·Purchasing Com	Back Forward Stop	Address 🖆 http://www.dental-purchasing.com/FrameTop.asp	Sontal Purchasing com Home Stop Order History	Templates ShoppingCart	> Edit Account Help				\$

figure29.gif (960x720x256 gif)

23 SIMPSTOD - DENGHAMING COM - MICOSON INCOME EXPONENT PROVIDENT BY DENGHAMING COM FIRE EARLY NOW GO Favories Heb	Heb	out interior	e xplore	DIOVIDGO	ny Denta	a-dicentaisi	ng Lom				· Action of the second	X D
A Stop	स्टू इंड	<b>₹</b>	Search	Favorites	History	Charmels	Full creem	D.Z	T.	n.		
Address 色 http://www.dental-purchasing.com/FrameTop.asp	ng com/Fra	me lop asp									• 1	ž,
				Prin	กลเ	y Co	mtac	t Ma	imte	Primary Contact Maintenance		
Dental Porchasing, com	77											
Home Shop	) J	Name: *	*		ž	<u></u>	Mi e First Smar			MI: F 1.4t = 1.4t		
Order History	27	Email: *	*		=	S. O. Hin.	n see Banahap a n				]	
remplates ShoppingCart	uc	Camp	Company Name:	:e:	Sections	000						
ZEdit Account	C	Address: *	* :SS			thall openy. Tension	Terre De					
Billing Contact	λ	Address 2:	ss 2:		L					Generalist de la company de la company de la company de la company de la company de la company de la company d		
Shipping Address Credit Card Info.	JE	City, 8	City, State, Zip: *	*	<u>}</u>			State:	्र   	State: F.C Postal Code: 7511	-	
Change Pussword	ш	Phone: *	*		Area: Diy		Phone: 1.983536	1	Ext.:			
djeH	i٦	Fax:			Areas	L		Ext	يا			
	d					ā	EG.	Sove Cantel	Cante			
			1	tave quest	tions or n	esd additi © 1998, Si	ਤਰੇ additional help? Contact ਤਾਂ ਦਾਤੂ © 1998, Sinship, ਇਹ, All ਇਸੁੱਖਤ Remind.	Contact († 11 Rights Res	,म्युट्ट क्षण्डाच्या सण्यतः	Have questions or need additional help? Contact গ্ৰান্তি বিলয়েগ্ৰাল্যালয় প্ৰয়োগ্ৰালয় প্ৰ © 1978, ইনামিকু, মিন, All Ripta Remyd.	ı	
The second secon												
						_			_	Acres desirable and a		

figure30.gif (960x720x256 gif)

<sup>O</sup> urchasing Com • Microsoft Internet Explorer provided by Dental Purchasing Com <u>5</u> 0   Fgyonles <u>H</u> eb	[3] (3 §	Billing Contact Maintenance	Mi w grate Tember Hi: Fo Laste Fount	To service desprise in a service servi	OLAT apasty Tenede		<u>\$</u>	Area: [3:3] Phone:  -30253b Ext.:	Edit Seve Central	Have questions or need additional help? Contact สารปฏิประชาบุญ การปฏิการปฏิชา 0 1978, ริสาภิกรุว, โคย All Right Rustred.	
ternet Explores prov	<b>G</b>		Name: *	Email: * Company Name:	Address: *	Address 2:	City, State, Zíp: *	phone: * Fax:		Наив	
Com • Microsoft Ir s Heb	Refresh Home			etr T				11118	3		
SimShop · Dental·Purchasing.Com · Mi Fie Edit Vew Go Fgwales Heb	8ack Found Sop Refresh Home Address (# 1 http://www.dentshoutcharing.com/f.ameTop asp		Vantal rundasing.com Home Home	Order History Templates	Zedit Account	Silling Contact	onipping Address Oredit Card Info.	Change Passuord Change Java/AdiveX			

figure31.gif (960x720x256 gif)

2 SimShop · Dental·Purchasing Com · Microsoft Internet Explorer provided by Dental·Purchasing Com	• Micros Jeb	oft Interne	Explorer pr	ovided b	y Dental	Purchasi	ing.Com	-	**				- 16	X E
Back Forwerd Stop R	Refresh Home		Search Favorites History Charmets Fullsceen	Worker	History	Charmels	m j	<b>₽</b> ₹	Œ.	Da.				
Address 街 http://www.dental-purchasing.com/frameTop.asp	com/Fran												Ä	į.
				hip	nia	g Ac	idre	ss M	aimt	Shipping Address Maintenance				
Dental Purchasing com	F													
doug (	<b>]</b> :	Name: *	_		기 호		First, Carson			Mit Strant Franc	i seci			
Order History	96	Email: *			÷	Gram.	per ne Grams Improns							
art	) U	Compa	Company Name:		40 Seminar	<del> </del> <del> </del> <del> </del> <del> </del> <del> </del>								
Fedit Account	၀၁	Address: *	*		11)4 T	nia Tapa wy fenada	B108049							
*** }	б	Address 2:	5 2:											
Shipping Address Credit Card Info.	nio	Clty, St	City, State, Zip: *		(Ja.)			State:	ء آ÷	State: No I Postal Code: CT11	_			
Change Password	dd	Phone: *	*		Ą.	1 1 E	115 phone: 41.02538	986		1				
	цs	Fax:			Area			1						
	<del></del>		New	. —	Edi	Delete		Eavie	Carcasi	Carcoi. Previous	Next			
								-						
			На	ve quest	005 01 0	eed addit © 1998, S	ad additional help? Contact ្រូវ ំ 0 1998 (SinShip, Ex. All Rights Reseved.	Contact :	savid.	Have questions or need additional help? Contact INT Co. Lat gazzer of the Co. O to		!		
[8]										A Internet zone	8			

figure32.gif (960x720x256 gif)

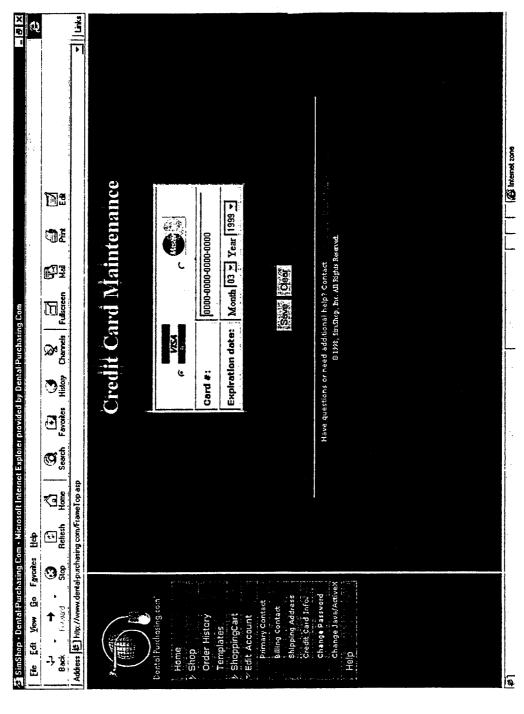


figure33.gif (960x720x256 gif)

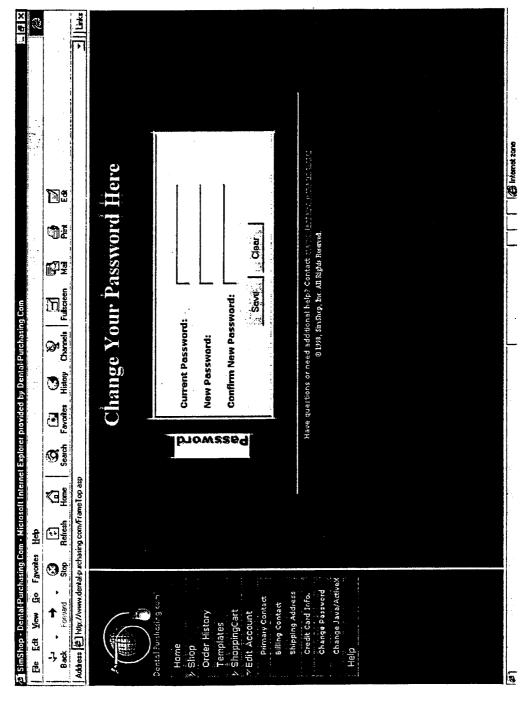


figure34.gif (960x720x256 gif)

Fie Edit Yew Go Fgrondes Help	Favories Help	Heb											(1)
Back Freedend	<b>⊗</b> gg	Refresh	<b>₹</b> 3 <u>§</u>	Sea do	Favorites		Charmels Charmels			<b>D</b> E	<b>2</b> 3		۰
Address 😫 http://www.dental-purchasing.com/FrameTop.asp	dal-purcha	ing com/Fra	metop asp										- Links
( SEE /	This with	s setting I the Act	control iveX ve	s the ty Irsion. T	pe of sec he Activ	arch cor eX vers	ntrol you sion is th	u will sce ne defaul	. Only of t for In	hange it ternet	to Java	This setting controls the type of search control you will see. Only change it to Java if you are having problems with the ActiveX version. The ActiveX version is the default for Internet Explorer Browsers. Netscape users	2ms
	can	can only use Java.	Java.										
Dental Furthasing.com	IMI	PORTAN thine (J'	IT! If y	ou decid m Micro	e to use soft. Th	the Jav e file si	va versid ize is ab	on then w proximat	e highly elv 6 me	recomii eas. ்	end gett	IMPORTANT! If you decide to use the Java version then we highly recommend getting the latest Java Virtual Machine (JVM) from Microsoft. The file size is approximately 6 mess. Decided the Libert 1987.	ıal
Home V Shop						יסט מויפ	current	You are currently using ActiveX technology.	ActiveX	technol	egy.		
Templates					Solect	an item	n below 1	to changa	your te	golouha	Sciect an item below to change your technology setting.		
7 Edit Account								5.00					
Billing Contact	. n. e. e.							75.157	M				
Credit Card Info.													
Change Java/ActiveX Help	×												
	;												
(2)											A internet zone	X 20ne	

figure35.gif (960x720x256 gif)

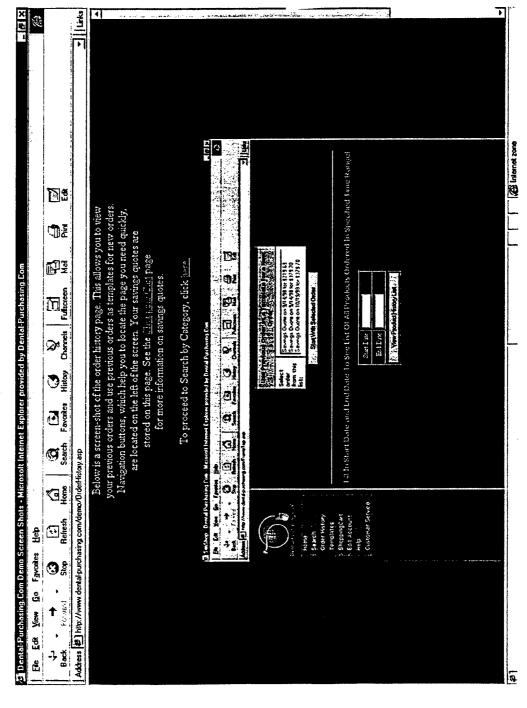


figure36a.gif (960x720x256 gif)

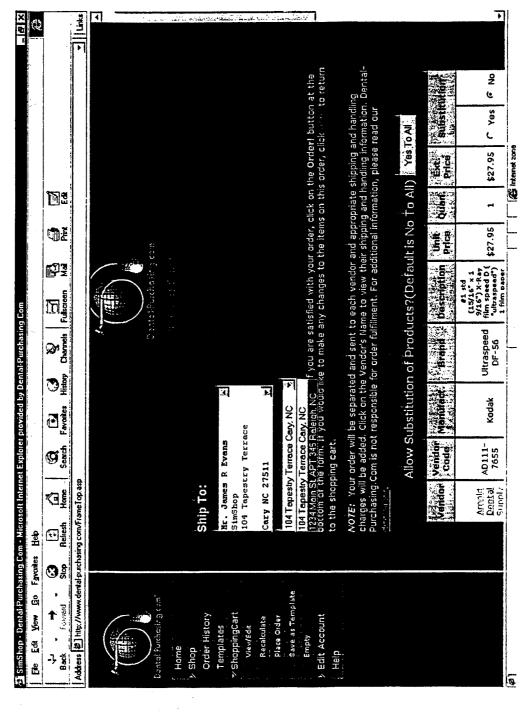


figure36b.gif (960x720x256 gif)

٤		-			-   [		1				
Forward Stop F	Refresh Tome	Search (S)	Favorites History	ory Charmels	Fullscreen Maj	đ.	D:				
Address (色) http://www.dental.purchasing.com/FrameTop.asp	com/FrameTop	asb									• Links
		Allow !	Substitutio	n of Produ	Allow Substitution of Products?(Default is No To All) <mark>i Yes To Al</mark> l	ult is No	To All	Yes T	o All		
Sontal Purchasing com	Vendor	Vendor	Manufacto	Brand	Description	Price	Ouan.	7 00 F	Substrution	rutioni	
	Arrold Dental Supply	d AD1111- ≥ 7655	Kodak	Ultraspeed DF-56	#1 std (15/16" x 1 9/16") x-Ray film speed D ( "ufusspeed") 1 film speer packet, box of 100 packets	\$27.95	-	\$27.95	ر Yes	€	
	Arrold Dental Supply	전 17839	S.S. White	<not SPECIFIED&gt;</not 	FG #1/4 round carbide bur	\$1.20	10	\$11.99	ر yes	<b>₽</b>	
placs order Save as Template Empty It Account	Carolina Dental Supply	DB CD856- M 8483	Kodak	Lidocaine	Udocaine 2% local anesthetic with epinephrine 1:100,000, 1 can of 50 (1,8ml) carpules	\$13.50	-	\$13.50	C Yes	<b>₽</b>	
						ĭ	Total:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
			10	Oder Sea	Search Aguin	Caricel	Order 1				
			Have questions	or need additio	Have questions or need additional help? Contact <u>តេមវិទ្ធិតម ខេត្តបាន ១៩១១។</u> ©1938, SanShop, En: All Righs Resertd.	t <u>रूपी विश्</u> s Reened.	M-confi.	200 620			

figure37.gif (960x720x256 gif)

|--|

figure38.gif (960x720x256 gif)

A Text	× g
Fig. Cal. Vew loss Compose Hep  [	
From order@denial-purchasing.com Date: Tuesday, January 19, 1999 9.56 AM To. Surjed: Test	0
We thought you would like to know that the following order has been shipped to:	1
Mr. James R Evans SimShop 104 Tapestry Terrace Cary, NC 27511	
Your order #359 (Received 1/19/99 9:56:36 AM)	
1 Unit(s) of #1 std (15/16" x 1 9/16") X-Ray film speed D ("ultraspeed") 1 film paper packet, box of 100 packets , TOTAL PRICE: \$27.95	10 F
10 Unit(s) of FG #1/4 round carbide bur , TOTAL PRICE: \$11,99	<del></del>
1 Unit(s) of Lidocaine 2% local anesthetic with epinephrine 1:100,000, 1 can of 50 (1 8ml) carpules . TOTAL PRICE: \$13.50	
Total Cost of Order: \$53.44 (Shipping and handling extra)	
This completes your order If, for any reason, we cannot ship an item, the supplier will contact you directly.	
If you have any questions, please contact us via e-mail ( <u>staff @simshop.com</u> ), FAX(1-919-462-9845) or phone(1-800-517-1997).	
Thank you for shopping at dental-purchasing.com.	ন

figure39.gif (960x720x256 gif)

3 Document Title - Microsoft Internet Explorer provided by Dental-Purchasion Com	er provided by Dental-F	inchasing Com				> 14
File Edit View Go Favoriles Help			a magazina a processo de esta de messa messa de la composição de esta	The second secon	The second secon	Q
Bock to yelloch Stop Reliesh	Home Search	Favorites History Ci	Dannels Fullaceen	Piere Constitution of the constitution of the		
Address   2   http://www.denkahourchasing.com/Registration/reg_GelFrontEnd.asp	gistration/reg_GelFrontEnd	dse				Li ks
	ŗ					ग
	) Peco	me A Mem	Become A Member Il's Lasy!	asy:		
Just enter	Name: Dr. 🔻 Fret	Fret [	Dr.	Let	The state of the s	
ýour name and email address	Email: Note: Your ema	Email:   Note: Your email address is used to send yo will never sell your address to anyone else.	l to send your new yone else.	Email:   Note: Your email address is used to send your new account name securely. We will never sell your address to anyone else.	. We	
						A 6.7. Jan. 19.7
Please Choose a	Password:		sword must be at least	(Password must be at least 5 and 110 more than 14 characters)	ters)	( A - + + + + + + + + + + + + + + + + + +
Password	Confirm password:	assword:				
	TradeShow	M	Magazines	Other		
How Did You Hear	ADA LDA	C Dental Products Report C Dental Economics	ucts Report omics	Surfing The Web	Web	
About Us?		C Dental Practice	Dental Practice And Finance	C Other	utn	
	-					
	Press t	he 'Finish' Butto	Press the 'Finish' Button Below to Submit Info	it Info		
		Finish	Finish Clear			Þ
EL PARTE DE LA PROPERTIE DE LA				14 85   14   15   14   15   15   15   15   1	(A Internet zone	

figure40.gif (960x720x256 gif)

Pie Edit View Go Faroda: High   Canada Faroda: High Davids   Pied   Canada   Pied   Pied   Canada   Pied	🗡 Vendor Request Form • Microsolt Internet Explorer provided by Denlai-Purchasing Com	it internet	xploter pr	ovided by	Dental-P	urchasing	. Соп							Ш
	Edit View Go Favorites	<del>de</del>												-
	Bock to steed Stop	Refresh	<b>₹</b>	æ å	Favordes		Ør se			Œ.	P.Z			
Vention Registration Form  Thank you for you interest in Contain Purchasing Comit Please take a moment to fill out our registration form. Click the burton and well send you an entil with your read of the aver, you will also receive immedate access to Centain you are made with your near the adjuster of the contain will send and the company Name:  Address:  Address:  Address:  Address:  Address:  Address:  Address:  Pex:  Pex:  Pex:  Rea:  Try  Austria and no mon than 14 chareters)  Confirm password:  Try  Austria and no mon than 14 chareters)  Confirm password:  Try  Try  Austria and no mon than 14 chareters)	(包) http://www.dental-purchas	sing com/ve	dos service	s/vendor_i	esponse ast									J Links
Thank you for you interest in Dental-Purchasing.Com! Please take a moment to fill out our registration form. Click the button and well sand you an errait with your new userid right away, you will also receive immediate access to Dental-Purchasing.com, however, you won't be able to see supplier information until you login.  Nome: *				Ven	dor	Reg	istr	ation	For	iui.				
y Name: *  te, Zip: *  Are   Pre:   See:   Lee    2:   Are   Pre:   E.   Lee    4: *  Gassword must be at least 5 and no more than 14 charactere)  Password: *    Wish Dental-Purchásing.com    If you have any questions, please call us at 1-800-517-1997	Thank form receiv inform	k you for Click the Je immedi Jation unt	you inter button a ate acce il you lo <u>c</u>	est in Dr ind we'll ss to De jin.	ental-Pur send you intal-Pur	chasing J an em chasing.	.Com! Pl all with com, ho	ease tak: /our new wever, y	e a mome userid riç ou won't	ant to fill ght away be able t	out our r . You will o see sup	sgistration also pplier		
y Name: *  te, Zip: *  Are: Rece Rece Rece Rece Rece Rece Rece Re		1000								,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Bess: *  Bes	No	*:ew		_	F	Ļ			L	¥				
State, Zip: *  State, Zip: *  Are Rue Rue Rue: Laboration Rue: Rue: Laboratore)  Word: *  Caseword must be at least 5 and no more than 14 characters)  If you have any questions, please call us at 1-800-517-1997	Em	nail: *		<u></u>										
State, Zip: *  State, Zip: *  Art. Bues: Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec.	CO	mpany A	lame: *	<u></u>								1		
State, Zip: *  State, Zip: *  Are: Roas: State   Species   Pd	dress: *		<u>_</u>								1			
State, Zip: *  Art. Russ: Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec.	Adi	dress 2:		<u>_</u>								]		
Mord: *  (Password must be at least 5 and no more than 14 characters)  If you have any questions, please call us at 1-800-517-1997	Cit	:y, State,	×:diz	<u> </u>			#	-	F Code:			1		
Mord: *  (Password must be at least 5 and no more than 14 characters)  (The password: *  (MSIT DENTAL-PURCHÁSING COM.  If you have any questions, please call us at 1-800-517-1997)	Phe	one: *		¥	L				1					
(Password must be at least 5 and no more than 14 characters)  VISIT DENTAL-PURCHÁSING COM  If you have any questions, please call us at 1-800-517-1997	Fas	:		¥	L		k 	L	1					
VISIT DENTAL-PURCHÁSING COM  If you have any questions, please call us at 1-800-517-1997	Pos	ssword:	*	L &	ssword m	ist be at le	mest 5 and	no more th	m 14 chara	cters.)				
	Con	nfirm pa	ssword:	<u> </u>			1							
					VISIT	DENTA	PURCH	ASINGC	<b>№</b>	<u> </u>				
And Americal 1950				Ifyo	u bave any	question	s, please	all us at 1-8	00-517-199	1				
- Company ( Company )														
											1	anne farm		

- K All p. //www.denild-puichasing.com/internetsetupliles/dacDPUDat \* Wicrosoft Internet Explorer provided by Dentat-Puichasing. Com : 📑 💎 🔭 🔭 🗀 🗀 🖺 🕜 ( Internet zone ☐ Show Outgoing Messages Use Vendor Product Infa D3 Œ. P Search Favorites History Charmels Fullscreen Zava no recessor Show no tendebre erodus Value: Address 🙋 http://www.dental.purchasing.com/internetsetupiles/docDPODataEntry.asp - Dental Purchasing On-Line Data Entry-Attribute: Select Category **₹**∃<u>\$</u> File Edit Yiew Go Favorites Help R

figure41.gif (960x720x256 gif)

figure42.gif (960x720x256 gif)

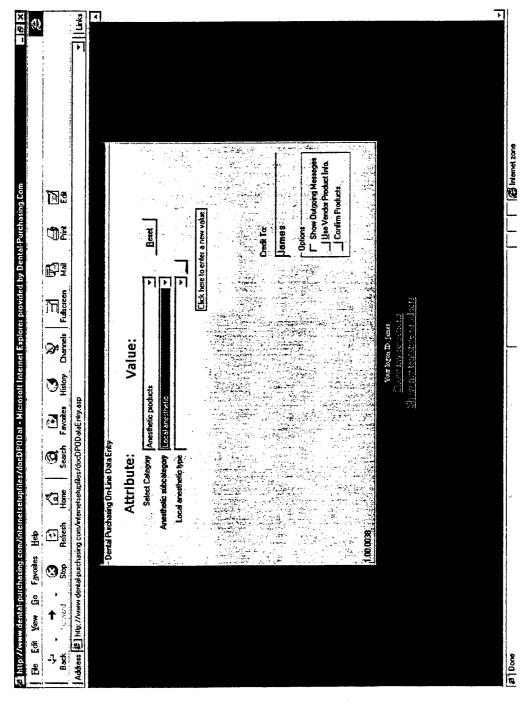


figure43.gif (960x720x256 gif)

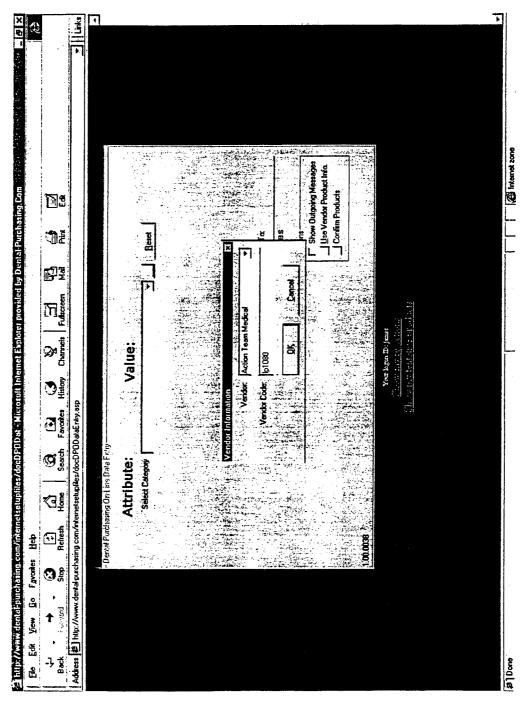


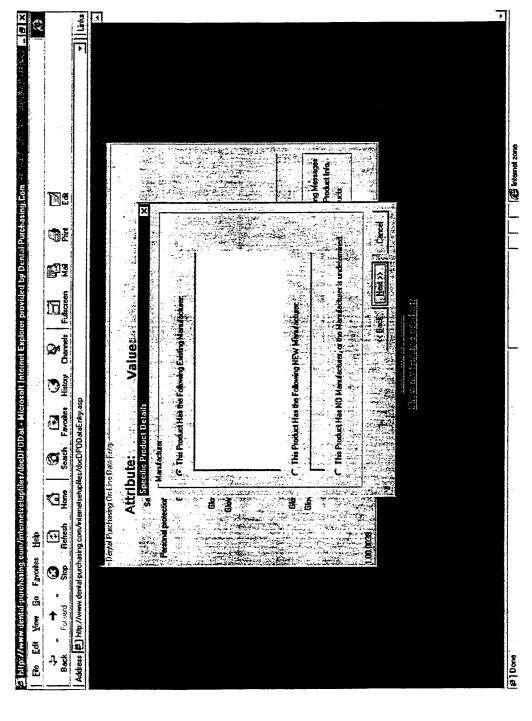
figure44.gif (960x720x256 gif)

2 http://www.denial-purchasing.com/internetsetupities/docDPUbat - Microsoft Internet Explorer provided by Dental-Purchasing.Com	ıw.denkal-pu	rchasing co	om/interne	tsetupfile	s/docDP0	Dat - Micro	soft Interr	et Explore	s provided	by Dente	l Purchasi	ng.Eom		The state of the state of	9 -	ΧÞ
Fie Eda	File Edit Yew Go Favorites Help	Favories	He <b>o</b>					-		,*.			·		(72)	
가 <u>ᅓ</u>	1 Consed Stop Reliest Hone Search Favories History Charmet	<b>3</b> g	e e e e	<b>€</b>	Q S	Favories	Histog	Charmels		<b>₽</b> 3	a.	D:				
Address (#	Address 🗗 http://www.denial-purchasing.com/internetsehupiles/docDPODataEnity.asp	antal-purchasi	ing com/inte	anetsetupBe	3/docDP00	JataEntry.asp									F	iş.
													-		ć	1
		-D	Dental Purchasing On-Line Data Entry	ang On Line	Data Entry											
		مآيا دُلگي		Attribute:	ute:		Value:	ie:	  							
				Select Calegory		ensued - journal ut peetin	N-persone				Best	7	***			
		<b>0.</b> 	Personal prote	rotection subcategory	_	Gleve.			*	ļ						
		. No.		Glove	Glove malerial	Larex			'		() () () () () ()					
		Tues.	- enden - ende	<b>\$</b>	Glove sterilly !!!	Her Poile				**						
		1		Glove powdering		Pc udate 1										_
		lia.		Glove cha	- Hogge	Glore chambion   110.10   100.00	-		1			-dia	Jones de			
			100	**	Con Grove Cardie Surgery	1,36.			1				**			
				<b>6</b>	Glove color 11	Aud				ికే (ా	Cod Ta		امعی ا م			
			· · · · · · · · · · · · · · · · · · ·	Gove	Glove Ravor 112	Neura					001					
		A white	9744 . 5 44 44 44 45 44 45 44 45 44 44 44 44 44	Cieve and	1 Day	Gigve stockfling. Laye n. 181-d	_		*1	- 						
		-		Glove pac	Kaging R	Glove packaging. Becei 101 cover	(e)				Options					-:-
				- 35) 7		Adda	Add a Product For This Description	This Descrit			Use Vent	1 Use Vendor Product Infa	<b>.</b>			
		*******									Confirm	Confirm Products	· 19 43.			
		Andrew (					hore.									
		8	. BE00 00					14.00	1.14		1000年		, S.			
							Your la	Your logon D. Junes								
							Character transfer	W. 45 x 34.	- Ç							
																_
																+
fe Done												(A Internet zone	net zone			

- F retupfiles/docDPODat • Microsoll Internet Explorer provided by Dental-Purchasing, Com **D**3 OF. Charmels Search Favorites History Dental Purchasing On Line Data Entry **₹**⊡\$ Address (2) http://www.denial.purchasing.com/int File Edit Yew Go Favorites Help

figure45.gif (960x720x256 gif)

figure46.gif (960x720x256 gif)



X | 42 | -1 Se (A) Internet zone 🗗 http://www.dental-purchasing.com/internetsetup/ilas/docDPODat • Microsoft Internet Explorer provided by Dental-Purchasing. Com Cancel T. This Product Has NO Blond, or the BRAND is Undependent **₽**₹ Attribute: Value at Section Poduct Details A STATE OF THE STA The Products Sold Under the Following Existing Brand Charmels Fullices the warm tensions seed at n Search Favorites History Address (2) http://www.denlal-purchasing.com/internetsetup/less/docDPODataEnlyy.asp Dertal Furchasing On Line Dala Entry Personal protector | Brand **শ্ৰ**ট্ট Ference Parties Fle Edit Yew Go Favorites Help # Done

figure47.gif (960x720x256 gif)

figure48.gif (960x720x256 gif)

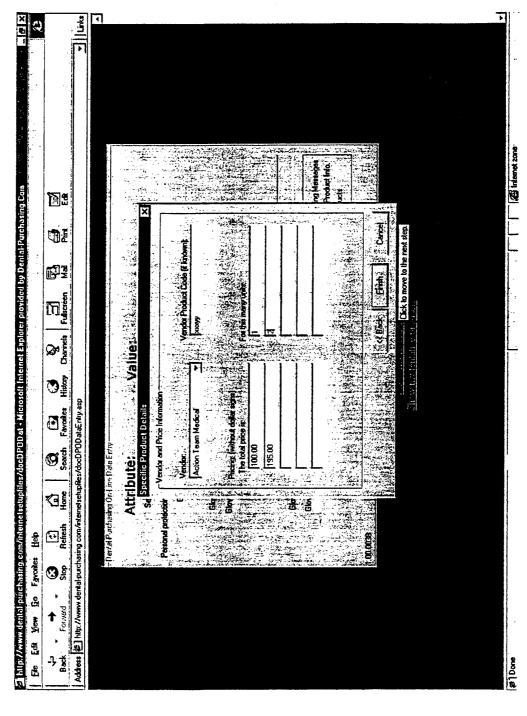


figure49.gif (960x720x256 gif)

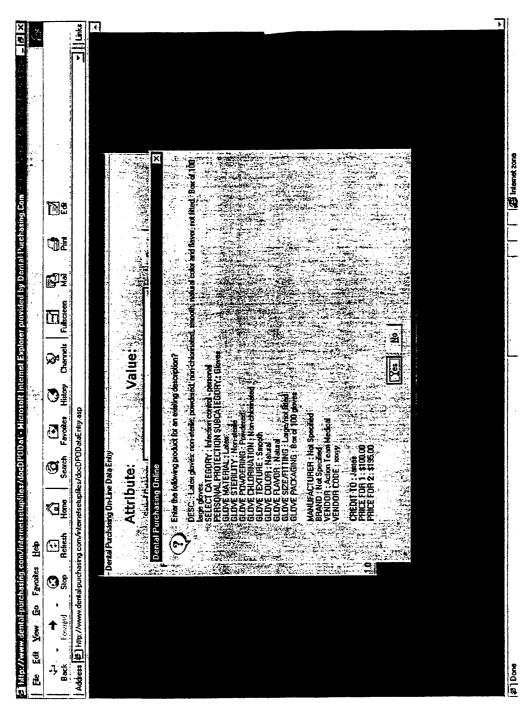


figure50.gif (960x720x256 gif)

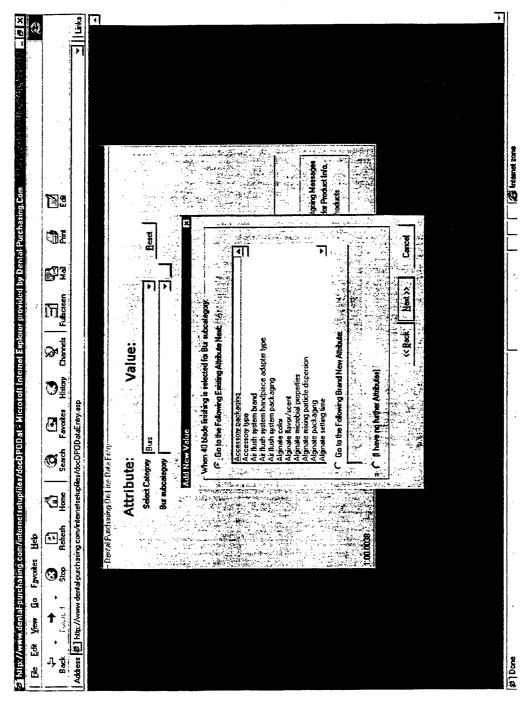
File Edit View Go Favorites Help		
Stop Refresh Home Search Fevorites	Histoy Charnels Fullacean Mas Print Eds	
dental-purcha		
Da There are 220 pr	Data Entry Confirmation There are 220 products in the tentative product table.	
James	E Local Teble	
Description		Decision
Tentative Product 10: 37111 Latex gloves: non-sherie, powdered, non-chiorinated, smo	Tentative Product 10: 37111 Jacks dieves: non-staride, bowdered, non-chlorinated, smooth, natural color and Baver, not fitted, Box of 188 Large dieves,	
Select Category:	Infection control - personal	
Personal protection subcategory:	Gloves	
Glove material:	Latex	
Glove sterliky:	Non-stenle	
Glove powdering:	Powdered	
Glove chlorination:	Non-chlorinated	
Glove texture:	Smooth	
Glove color:	Natural	7 Reject
Glove flavor:	Natural	6 1430
Glove size/fitting:	Large/not fitted	
Glove packaging:	Box of 100 gloves	····
Manufacturer:	•	
Brand:	•	
Vendor:	Action Team Medical	
Vendor Product Code:	AAxx	
Price for qty 1	\$100.00	
Price for qty 2	\$195.00	
Data entry person:	James	
	Submit Chenges in	

7

3 A Internet zone Thip.//wnw.dental-parchasing.com/internetsetupfilos/docDPODat • Microsoft Internet Explorer provided by Dental Purchasing Com P T) E Value EP. Chermels A New Value for But subcates Fig. Address (2) http://www.dental-purchasing.com/internetsetupites/docDPQDataEntry.asp Search Favorites Attribute: Add New Value Saled Calegory Burs Dental Puchysing On Line Data Enty Bur subcategory (J File Edit Yew Go Favories Help Forward # Done

figure51.gif (960x720x256 gif)

figure52.gif (960x720x256 gif)



**DPOnline Report** 

. Printed c

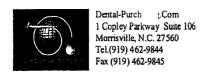
01/19/1999 12:26:25 PM

Data Entry [Vendor Products]: 11/01/1998 - 01/19/1999

Fig. 53

PCT/US 00/01401

## 57/75





Page 1

Fig. 54

Terms
Due On Receipt

Tel.(800) 562-6645 Fax (425) 712-8677

Ref No.	Order Date	Description	Qty	Unit Price	Extended Prices	Commission Due
334	11/29/98	AD547-7896	2	28.50	57.00	3.42
334	11/29/98	AD111-4404	4	38.95	155.80	9.35
334	11/29/98	AD222-4179	2	30.95	61.90	3.71
334	11/29/98	385265	100	0.94	93.50	5.61
341	12/3/98	AD135-7651	1	21.50	21.50	1.29
341	12/3/98	AD777-0374	6	20.50	123.00	7.38
341	12/3/98	AD333-6628	1	22.95	22.95	1.38
343	12/8/98	AD600-3599	24	11.75	282.00	16.92
345	12/12/98	ADRDC27HF	2	6.35	12.70	0.76
345	12/12/98	ADRDC56I	2	7.45	14.90	0.89
345	12/12/98	382523	5	4.70	23.50	1.41
346	12/15/98	AD856-0233	10	12.79	127.90	<b>7</b> .67
346	12/15/98	AD111-2876	5	28.95	144.75	8.69
350	12/16/98	AD777-4266	1	19.45	19.45	1.17
350	12/16/98	14733	20	1.20	23.98	1.44
350	12/16/98	AD378-9199	20	6.95	139.00	8.34
350	12/16/98	382510	10	4.70	47.00	2.82
350	12/16/98	382524	10	4.70	47.00	2.82
350	12/16/98	AD0402CA	1	14.95	14.95	0.90
352	12/18/98	AD856-3210	10	12.79	127.90	<b>7.</b> 67
352	12/18/98	AD312-6828	10	4.85	48.50	2.91
Comme	nts:				Sub-Total:	\$96.55
					Other:	<u>0.00</u>
					Please Pay:	96.55

<DUPLICATE COPY>

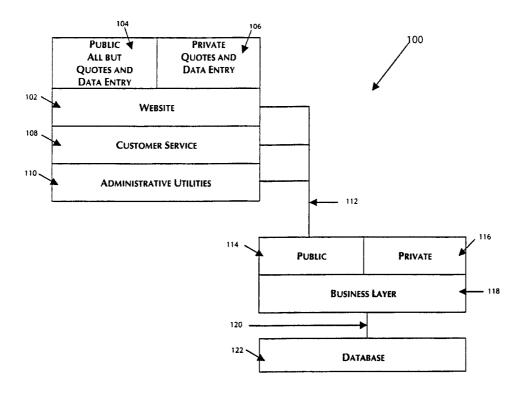
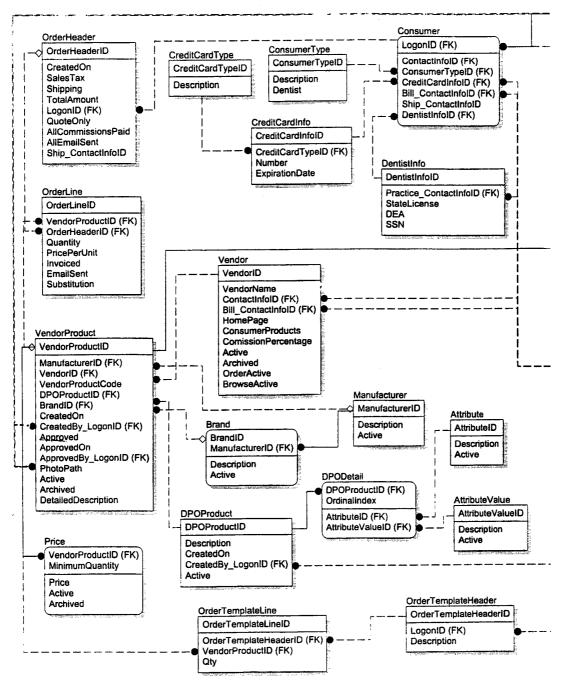


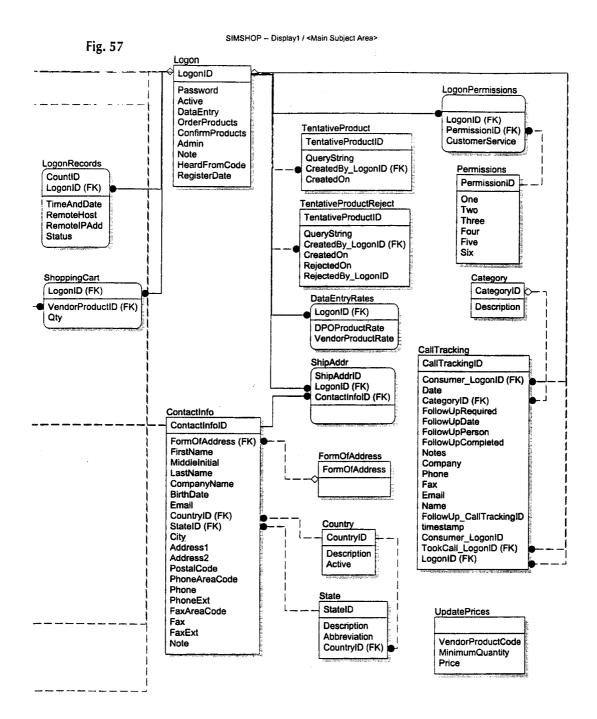
Figure 55

SIMSHOP -- Display1 / <Main Subject Area>,

Fig. 56



1, 1 / 1, 3 - 14:57:14 , 01/18/99



SIMSHOP - Display1 / <Main Subject Area>

RptTransactionList

OrderHeaderID
CreatedOn
VendorID
VendorName
VendorProductCode
Quantity
PricePerUnit
Invoiced
QuoteOnly

RptInvoiceHeader

InvoiceNum
InvoiceDate
VendorID
Inv\_ContactInfoID
TotalCommDue
AmtReceived
BalanceDue
PercentComm

RptInvoiceLine

InvoiceLineID
InvoiceNum
OrderHeaderID
VendorProductCode
Quantity
UnitPrice
SubTotal
CommDue
OrderDate

Fig. 58

InvoiceHeader

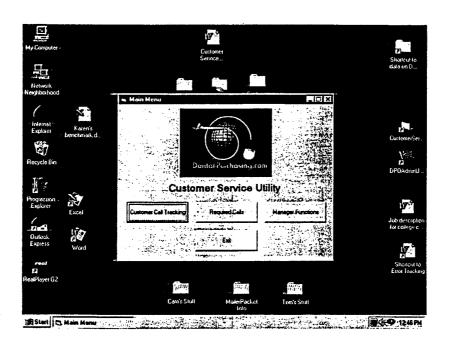
InvoiceNum
InvoiceDate
VendorID
Inv\_ContactInfoID
TotalCommDue
AmtReceived
BalanceDue
PercentComm

InvoiceLine

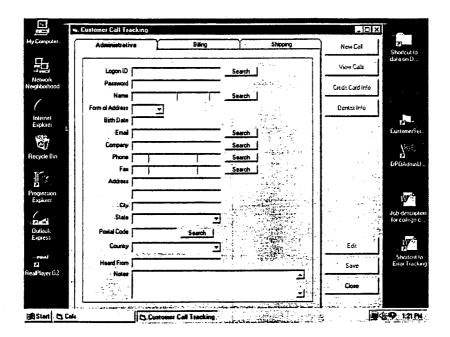
InvoiceLineID
InvoiceNum
OrderHeaderID
VendorProductCode
Quantity
UnitPrice
SubTotal
CommDue
OrderDate

InvoiceContactInfo

InvoiceContactInfoID
InvoiceNum
FormOfAddress
FirstName
MiddleInitial
LastName
CompanyName
BirthDate
Email
CountryID
StateID
City
Address1
Address2
PostalCode
PhoneAreaCode
PhoneExt
FaxAreaCode
Fax
FaxExt
Note



F16. 59



F16 60

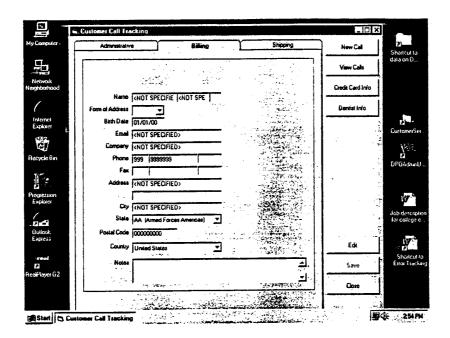
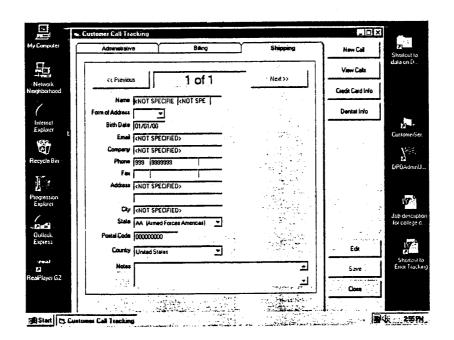


FIG 61



F16 62

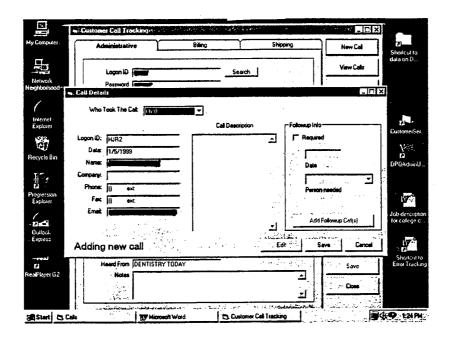
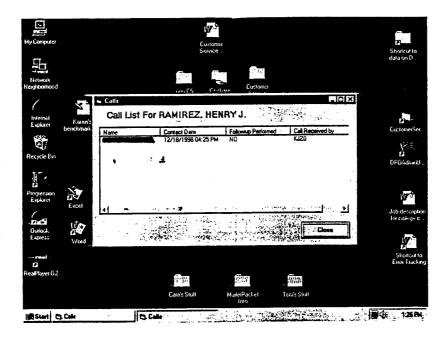
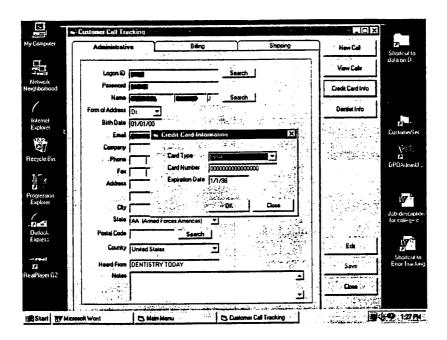


FIG 63



F16 64



F16 65

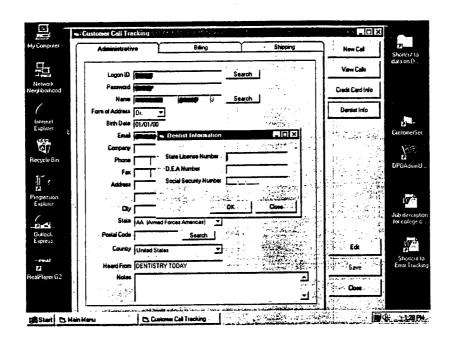


FIG 66

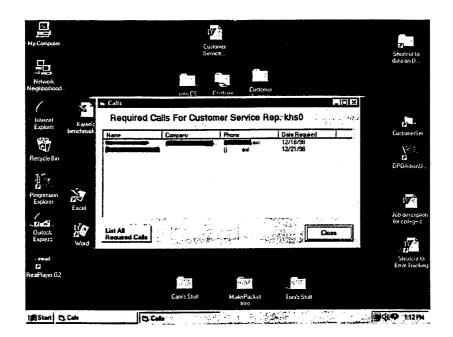
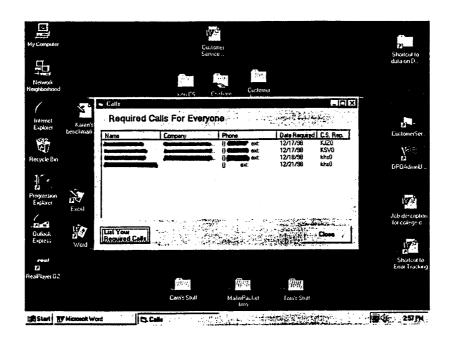


FIG 67



F19 68

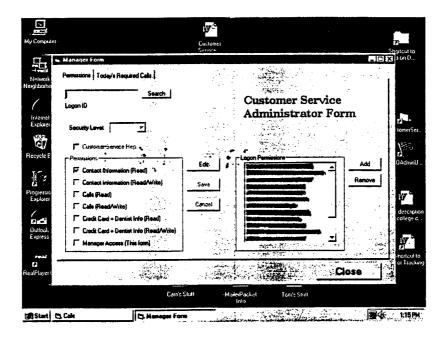
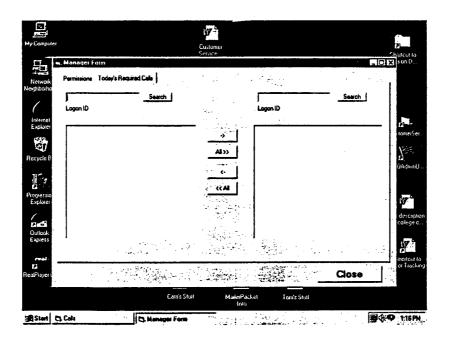


FIG 69



F16 70

Fig. 71

## Category creation procedure for remaining sub-categories

Objective: To establish a database structure and populate it in such a way that products can be easily and logically identified by the majority of general dental practitioners.

and logically identified by the majority of general dental practitioners.

Level 3: Structure Creation Establish categorization structure 8

Establish categorization structure & document industry nuances Build database structure established by level 3 Populate database established by level 2 Verify sub-category and vendor completeness Cevel 0 Quality Assurance Jason Derrick Alane TEAM 3 Derrick & Remote LEVEL 2 & 1
Data Entry & Approval TEAM 1 Val & Wes TEAM 2 Kevin & Daniel Preparation Sandy Alane Data Lori Level 3: Structure Creation Level 2: Data Entry Level 1: Data Entry Level 0: Quality Assurance Sid LEVEL 3 Creation Attribute Sandy Loi **8** Approximately 200 Categories

Fig. 72

New product entry procedure for existing and/or new vendors

To effectively and accurately populate database with new products using database structure established in the category creation phases. Objective:

