

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
10 May 2002 (10.05.2002)

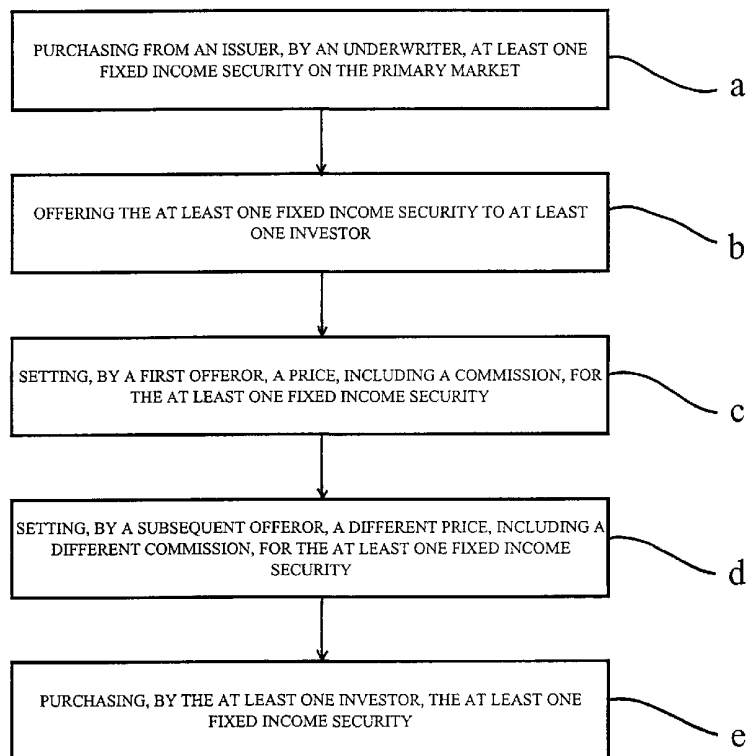
PCT

(10) International Publication Number
WO 02/37221 A2

- (51) International Patent Classification⁷: **G06F** **Talbot, Jr.** [US/US]; 223 Cornwall Drive, Pittsburgh, PA 15238 (US).
- (21) International Application Number: PCT/US01/45638
- (22) International Filing Date:
2 November 2001 (02.11.2001)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/245,512 3 November 2000 (03.11.2000) US
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- (81) Designated States (national): AE, AG, AL, AM, AT, AT (utility model), AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, CZ (utility model), DE, DE (utility model), DK, DM, DZ, EC, EE, EE (utility model), ES, FI, FI (utility model), GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK (utility model), SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European

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(54) Title: DIFFERENTIAL COMMISSION AND ELECTRONIC ORDER MATCHING PROCESS FOR THE DISTRIBUTION OF PRIMARY MARKET FIXED INCOME SECURITIES



(57) Abstract: An apparatus and process (collectively the "system") for conducting and managing the primary offering of fixed income securities, specifically, but not exclusively, fixed rate municipal bonds at different prices for like maturities over electronic networks, particularly, but not exclusively, the Internet, is disclosed. A differential commission method for the distribution of primary market fixed income securities, including the steps of: (a) purchasing from an issuer, by an underwriter, at least one fixed income security on the primary market; (b) offering the at least one fixed income security to at least one investor; (c) setting, by a first offeror, a price, including a commission, for the at least one fixed income security; (d) setting, by a subsequent offeror, a different price, including a different commission, for the at least one fixed income security; and (e) purchasing, by the at least one investor, the at least one fixed income security. The system includes the steps of: (1) building and maintaining an inquiry database; (2) building and maintaining a syndicate inputs database; (3) comparing the inquiry database with the syndicate

inputs database; and (4) identifying matches between the data in the inquiry database and the syndicate inputs database.



patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— *without international search report and to be republished upon receipt of that report*

**DIFFERENTIAL COMMISSION AND ELECTRONIC ORDER
MATCHING PROCESS FOR THE DISTRIBUTION OF
PRIMARY MARKET FIXED INCOME SECURITIES**

BACKGROUND OF THE INVENTION

1. Field of Invention

[0001] The present invention relates to a method of matching buyers, particularly buyers of smaller amounts, and sellers of fixed income securities at different prices and commissions for like maturities, specifically, but not exclusively, municipal bonds, over electronic networks, specifically, but not exclusively, the Internet.

2. Description of the Prior Art

Primary Market

[0002] An example of the prior art process is shown in Figure 1 and the tables below. In Figure 1, issuers (A1) offer bonds for sale to a broker dealer acting as an underwriter (A2) either through a competitive or negotiated process. This prior art process requires that personnel at the syndicate desk (B2) of the underwriter (A2) communicate (either telephonically or by facsimile) the pricing to personnel at retail trading desks (C2, C3) at both the underwriter and at other brokerage firm(s) (Row C) in the selling group. This pricing information typically includes the coupon, maturity, price, yield and commission for each separate security of the fixed income debt instrument issued. A sample of typical pricing information follows as Table 1:

Table 1: Pricing Sheet

Maturity					Sales
January 1	Principal	Coupon	Yield	Price	Commission
2002	100,000	5.10%	5.15%	0.99952	0.250
2003	200,000	5.20%	5.20%	1.00000	0.250
2004	300,000	5.30%	5.35%	0.99863	0.375
2005	400,000	5.40%	5.45%	0.99822	0.375
2006	500,000	5.50%	5.55%	0.99784	0.375
2007	600,000	5.65%	5.60%	1.00251	0.625
2008	700,000	5.75%	5.70%	1.00285	0.625
2009	800,000	5.85%	5.85%	1.00000	0.625
2010	900,000	5.95%	6.00%	0.99656	0.500

[0003] Fixed income debt instruments are often structured with multiple maturing securities, with each individual security having a common coupon and maturity date and identified by a separate CUSIP (Committee on Uniform Securities Identification Procedures) number. The pricing information includes the amount of the primary market sales commission for each individual security. Current market practice suggests that each originally issued security offered in the primary market be sold at the same price regardless of the size of the order. The individual securities identified by a like CUSIP are also often sold to different types of buyers in both larger institutional and smaller retail denominations. Retail trading desks usually use sales assistants to contact the retail brokers (Row D of Fig. 1) who then solicit retail investors (Row E) for orders. This prior art system is extremely labor-intensive, with several steps requiring human interaction that add time and cost to the overall sale process. Since primary market sales commissions are generally not sufficient to compensate retail brokers to complete this process for smaller, retail orders, the fixed income market (specifically, but not exclusively, the municipal bond market) has developed a process using the secondary market that completes those sales. As a result of this process, most retail investors purchase fixed income securities through brokers, however, more often in the secondary market than in the primary market.

Secondary Market

[0004] The inefficiency of the prior art process is demonstrated by the example that over 34% of all municipal bonds outstanding are held by retail investors (Federal Reserve Board, Flow of Funds Accounts, Flows and Outstandings, First Quarter, 2000) while research indicates that only 12.5% of the bonds are initially sold to retail investors at the initial re-offering prices (primary market). The remaining 21.5% of municipal bonds reach the retail investor during the first six months after issuance in the secondary market. A major barrier to effective retail distribution of originally issued fixed income securities, particularly but not exclusively, municipal bonds, has been the inability, given brokerage firm cost structures, for retail brokers to write a ticket for a small purchase of bonds during the initial offering period. The median size purchase of municipal bonds in the market is \$25,000, which clearly indicates strong retail trading in the market.

[0005] Primary market sales commissions (generally between .25% and .50% of the par amount) generate between \$62 and \$125 for \$25,000 orders. These commissions are not competitive with other financial products offered by brokerage firms to their retail clients, including secondary market municipal bonds. Under current industry

practice, broker-dealers or institutional investors purchase primary market bonds from underwriters and convert higher yields (in the form of original issue discount or coupon payments) into commission dollars in the secondary market by marking up the price of the bonds. After the markups, retail brokers redistribute the bonds to retail investors with higher commissions.

[0006] Table 2 shows an example of the existing prior art process using the secondary market.

Table 2: Existing Process

		Order Size(\$)	Price (%)	Yield (%)	Sales Commission		Proceeds from Sale of Bonds	
					%	Dollars		Dollars
Primary Market								
	A1	100,000	98.50	5.70	.50	500	98.00	98,000
	B1	20,000	98.50	5.70	.50	100	98.00	19,600
Secondary Market								
	B2	20,000	99.00	5.65	1.00	200		
X	B3	10,000	100.00	5.55	1.00	100		
Y	B4	10,000	100.50	5.50	1.50	150		

This example assumes that the retail investors shown in line X and Y each want \$10,000 of municipal bonds. The issuer sells \$120,000 of bonds that are initially offered for sale to the public by the underwriter at a price of 98.50%, which reflects an "original issue discount" of 1.50%. In addition, the underwriter charges the issuer a sales commission (or underwriting fee) of .50%. The issuer's total cost is 5.75%. The prior art process includes the same sales commission for an order that would be obtained from a typical institutional investor (shown on line A1 of Table 2) or from a typical retail investor (shown on line B1 of Table 2).

[0007] Under the prior art process, retail brokers are unlikely to submit the \$10,000 orders in the primary market because the sales commissions are lower than commissions paid on other investments. In this example, the underwriting firm received no retail orders for the bonds on Line B1 of Table 2 and decided to sell the bonds to another brokerage firm in the secondary market, as shown on Line B2 of Table 2. The underwriter increased the price of the bonds (see Figure 2) \$100 to increase the commission and thereby lowered the yield to 5.65%. This resulted in commissions of \$200 to the underwriter, or twice as much as the firm would have made by selling the bonds in the primary market to

retail investors. The brokerage firm then resells \$10,000 of the bonds to a retail investor (X) at a yield of 5.55% and earns an additional \$100 in sales commissions, as shown on Line B3 of Table 2. The same brokerage firm resells the other \$10,000 to another retail investor (Y) at a yield of 5.50% and earns an additional \$150, as shown on Line B4 of Table 2. The total cost of distributing this \$20,000 in bonds to retail investors was \$450 or 2.25% of the amount of the bonds sold. The issuer paid all of these costs, which included \$100 as disclosed initially in an underwriting fee and \$350 in the form of the higher yield of 5.70%.

[0008] Secondary market markups are a cost not just to the retail investor, but also to the issuer of the municipal bonds. The existence of this inefficient distribution system creates more profit (and risk) for financial intermediaries at the expense of both issuers and investors. Known patents in the field include U.S. Patent Nos. 5,809,483; 5,915,209; 6,161,099 and 6,236,972.

SUMMARY OF THE INVENTION

[0009] It is, therefore, a drawback that the prior art process has focused on institutional distribution of fixed income securities in the primary market. It is another drawback of the prior art that all fixed income securities are sold at the same price, regardless of quantity purchased. People skilled in the art believe that regulatory agencies prohibit the sales of smaller lot sizes of bonds at higher prices during the initial offering period. It is a further drawback of the prior art that information regarding primary market fixed income securities issues is not provided to Retail Investors in time for them to participate in the primary market distribution process.

[0010] In order to overcome these drawbacks, the present invention is directed to a differential commission and electronic order matching process for the distribution of primary fixed income securities. Further, the present invention is an apparatus and process (collectively the "system") for conducting and managing sales in the primary market of fixed income securities, specifically, but not exclusively, fixed rate municipal bonds, at different prices for like maturities over electronic networks, particularly, but not exclusively, the Internet.

[0011] The system of the present invention includes a differential commission method for the distribution of primary market fixed income securities, including the steps of: (a) purchasing from an issuer, by an underwriter, at least one fixed income security in the primary market; (b) offering the at least one fixed income security to at least one investor; (c) setting, by a first offerer, a price, including a commission, for the at least one

fixed income security; (d) setting, by a subsequent offerer, a different price including a different commission, for the at least one fixed income security; and (e) purchasing, by the at least one investor, the at least one fixed income security.

[0012] The system of the present invention also includes a computer-implemented communication and order matching method for fixed income securities, including the steps of: (1) building and maintaining an inquiry database; (2) building and maintaining a syndicate inputs database; (3) comparing the inquiry database with the syndicate inputs database; and (4) identifying matches between the data in the inquiry database and the syndicate inputs database.

[0013] The present invention, both as to its construction and method of operation, together with additional objects and advantages thereof, will best be understood from the following description of specific embodiments when read in connection with the accompanying drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

[0014] Fig. 1 is a block diagram of a prior art system for the retail distribution and purchase of fixed income securities;

[0015] Fig. 2 is a chart of a typical secondary market bond "mark up" in the prior art system for the retail distribution and purchase of fixed income securities;

[0016] Fig. 3 is a flow diagram of a differential commission method for the distribution of primary market fixed income securities according to the present invention;

[0017] Fig. 4 is a flow diagram of a computer-implemented communication and order matching method for fixed income securities according to the present invention;

[0018] Fig. 5 is a flow diagram of method for managing the sale of municipal bonds in the system of Fig. 4; and

[0019] Fig. 6 is a screen print of an example of an electronic order solicitation generated by the method shown in Fig. 3.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

[0020] The present invention is a Differential Commission Method (the "process") that will allow issuers to directly access retail investors by electronically incorporating current secondary market pricing practices during a primary offering. Further, the present invention is a system for conducting and managing sales in the offering of fixed

income securities, specifically, but not exclusively, fixed rate municipal bonds, at different prices for like maturities over electronic networks, particularly, but not exclusively, the Internet (the "system"). The process and system are advantageous over prior art arrangements in that they: (1) increase the amount of primary market retail distribution and, hence, market efficiency; (2) increase yields earned by retail investors; (3) lower the borrowing costs of municipal bond issuers; (4) improve price transparency in the municipal bond market; (5) increase revenues for underwriters by increasing retail volume; (6) assist firms to monitor retail suitability for municipal bonds; (7) improve customer relations between retail brokers and investors; and (8) reduce inventory/holding risk for broker dealers.

[0021] The process consists of the Differential Primary Commission Structure, which may be utilized with the Electronic Communications and Order Matching System. Issuers, investors, brokerage firms and underwriters will be able to implement the Differential Primary Commission Structure across a virtual network of broker-dealers that can be formed and disbanded using the system for each particular issue.

Differential Primary Commission Structure

[0022] The Differential Primary Commission Structure (DPCS) will provide investors with higher yields, borrowers with lower costs and retail brokers with the ability to charge fair commissions for smaller primary market orders. Retail brokers will sell primary market bonds to investors for any fair combination of yield and commission, with maximum commissions determined by each brokerage firm or the issuer.

[0023] This DPCS is a differential commission method for the distribution of primary market fixed income securities. As illustrated in Fig. 3, the DPCS preferably includes the steps of: (a) purchasing from an issuer, by an underwriter, at least one fixed income security on the primary market; (b) offering the at least one fixed income security to at least one investor; (c) setting, by a first offerer, a price, including a commission, for the at least one fixed income security; (d) setting, by a subsequent offerer, a different price, including a different commission, for the at least one fixed income security; and (e) purchasing, by the at least one investor, the at least one fixed income security. It is this ability of a first or subsequent offerer to set a different commission for the fixed income security in the primary market that recognizes particular benefits. The fixed income security may be a municipal bond, a corporate bond, a government agency security, etc.

[0024] Tables 3 and 4 below outline the changes to the prior art that the present invention will permit.

Table 3: DPCS Process

	Order Size	Price (%)	Yield	Sales Commission		Proceeds from Sale of Bonds	
				%	Dollars	%	Dollars
Primary Market							
A1	100,000	98.500	5.70	.50	500	98.000	98,000
B3	10,000	99.500	5.60	1.00	100	98.50	9,850
B4	10,000	100.00	5.55	1.50	150	98.50	9,850

In Table 3, the same orders described in B3 and B4 of Table 2 occur in the primary market instead of the secondary market. The DPCS, by removing the initial markup charged by the underwriting firm to other brokerage firms in Line B2 of Table 2, allows retail investors to purchase the bonds with yields that are 5 basis points higher than Table 2. The DPCS provides the retail brokers with the same sales commission (\$250). By increasing the issuer's proceeds (from \$117,600 to \$117,700) the structure will lower the issuer's costs by 5 basis points.

Table 4: Comparison

	Existing	DPCS
Yields Earned by Investor X	5.55	5.60
Yields Earned by Investor Y	5.50	5.55
Sales Commissioned by Retail Brokers	\$250	\$250
<i>Issuer's Sales Proceeds from Bonds</i>	117,600	117,700
<i>Issuer's Total Cost</i>	5.75	5.70

The DPCS will improve the ability of broker-dealers to sell originally issued bonds directly to retail investors. The present invention will make the fixed income market, particularly but not exclusively, the municipal bond market, more efficient and provide issuers with lower interest costs through wider distribution.

[0025] The present invention also provides a solution to regulatory concerns over appropriate markups, price transparency and investor suitability for municipal bonds. For example, a primary goal of the Municipal Securities Rulemaking Board (MSRB) and the Securities and Exchange Commission (SEC) is to increase price transparency in the municipal bond market. By moving retail distribution from the secondary market to the primary market, the process will improve price transparency. The total sales commission would be disclosed to the retail customer on the confirmation. The retail commissions that

would be charged through the process would be smaller than secondary markups because the broker-dealer's inventory risk is eliminated.

[0026] The first or subsequent offerer's commission may be set within a predetermined range, e.g., from around 0% to around 4% of the principal amount of the fixed income security. The offerer is typically a broker, a retail salesperson or an institutional salesperson, and the investor is typically either a retail investor or an institutional investor. The issuer may determine a portion of the fixed income security price, which would result in an issuer cost savings.

[0027] The present invention is also directed to an apparatus for implementing a differential commission method for the distribution of primary market fixed income securities, including: means for purchasing from an issuer, by an underwriter, at least one fixed income security on the primary market; means for offering the at least one fixed income security to at least one investor; means for setting, by a first offerer, a price including a commission, for the at least one fixed income security; means for setting, by a subsequent offerer, a different price, including a different commission, for the at least one fixed income security; and means for purchasing, by the at least one investor, the at least one fixed income security.

Electronic Communication and Order Matching System

[0028] The Electronic Communication and Order Matching System of the present invention will provide groups of broker-dealers and issuers with an apparatus and computer-implemented system to implement the Differential Primary Commission Structure (or process) for the sale of new fixed income securities. In a preferred embodiment, the system will search multiple databases and find multiple matches between demand represented by inquiries (the "inquiries") and supply represented by underwriting syndicates (the "syndicate inputs"). The system may generate Electronic Order Solicitations to the users in the initial embodiment or may execute an order in another embodiment. In a preferred embodiment, the system performs step 1 through step 4 shown in Fig. 4; in particular: (1) building and maintaining an inquiry database; (2) building and maintaining a syndicate inputs database; (3) comparing the inquiry database with the syndicate inputs database; and (4) identifying matches between the data in the inquiry database and the syndicate inputs database. This method is equally effective in both the primary market, as well as the secondary market.

[0029] In step 1, the system builds and maintains an inquiry database. For example, the inquiry database may contain retail inquiry data, which are completed for retail customers by retail brokers for each potential purchase of bonds. The offerer or broker may input the necessary data into the inquiry database. In addition, the inquiry database may be comprised of multiple discrete databases, and these databases may be linked. These databases may be updated by a user, a broker, a customer, a retail salesperson, an institutional salesperson, and the like.

[0030] As described in the process above, the inquiry database may include fields containing information directed to a desired commission, a minimum commission, a maximum commission and/or a commission range acceptable to a first offerer. Similarly, the inquiry database may include fields directed to a desired commission, a minimum commission, a maximum commission and a commission range acceptable to a subsequent offerer. The term "offerer" includes brokers, retail salespersons, institutional salespersons, and the like.

[0031] The system will maintain the inquiry database that contains the inquiries entered by the offerers or brokers. Data regarding an individual inquiry in the inquiry database may only be maintained for a set period. After the set period expires, a notice is transmitted to the originator of the individual inquiry data. The originator may be a user, a broker, a customer, a retail salesperson, an institutional salesperson, and the like. For example, in a preferred embodiment, inquiries will only be maintained for two weeks. After two weeks, the system may send a notice to the broker to confirm that the inquiry is still current. The information contained in each inquiry will enable the system to solicit orders for bonds that are suitable to each particular investor. As shown in Table 5, one example of an inquiry, in this case a retail inquiry, is as follows:

Table 5: Retail Inquiry

Field Number	Fields for Retail Broker	Field Type	Character Length
R1	State of Issuer	Alphanumeric	2
R2	Minimum Maturity Date	Date	10
R3	Maximum Maturity Date	Date	10
R4	Federal Tax-Exempt	Alphanumeric	1
R5	State Tax-Exempt	Alphanumeric	1

R6	Bank-Qualified	Alphanumeric	1
R7	Alternative Minimum Tax	Alphanumeric	1
R8	AAA Insured	Alphanumeric	15
R9	Minimum Underlying Rating	Alphanumeric	7
R10	Maximum Price	Percent	8
R11	Minimum Commission	Percent	8
R12	Minimum Coupon	Percent	8
R13	Minimum Yield	Percent	8
R14	Brokerage Firm	Alphanumeric	50
R15	Broker Name	Alphanumeric	50
R16	Investor Name	Alphanumeric	50
R17	Investor Account Number	Alphanumeric	20

Other inquiries could be used that would expand upon this information.

[0032] The system will use the information concerning the brokerage firm (R14), the broker (R15) and the investor (R16 and R17) only to notify the broker of a match. The system will match individual retail investors only upon approval from each brokerage firm in the selling group. This ensures that the retail investors and the broker are unknown to the syndicate manager until after an order has been placed.

[0033] The information in fields R1 – R13 above is descriptive of the specific demand of the retail investor. Since municipal bonds have different tax treatment based on the state of issue and the residence of the investor, most retail investors have a preference for bonds issued in their own state. Field R1 provides the preferred state or states of the investor.

[0034] Fields R2 and R3 describe the maturity range that the investor prefers. Retail brokers will be able to specify either a range of dates or one specific date.

[0035] Fields R4 through R7 describe the retail investor's tax preferences. Field R8 checks whether this investor, as many retail investors do, has a preference for insured bonds. If the investor is willing to consider uninsured bonds, Field R9 describes the minimum rating acceptable to the investor.

[0036] Fields R10 through R13 describe the acceptable pricing parameters, including Maximum Price (R10), Minimum Commission (R11), Minimum Coupon (R12) and Minimum Yield (R13).

[0037] The fields will be cross-checked by the system against corresponding syndicate input fields using the method illustrated in Fig. 4 and described in "Primary Market Distribution Function" below. The inquiries will be updated by the brokers

or the sales assistants as needed. As discussed above, the system returns each inquiry to the user after two weeks.

[0038] In the next step, step 2 of Fig. 4, the system builds and maintains a syndicate inputs database. Typically, a syndicate representative enters the data to build the syndicate inputs database. As with the inquiry database, the syndicate inputs database may be comprised of multiple discrete databases, which may be linked. The syndicate representative may view a summary of the data in the inquiry database. Generally these syndicate pricing inputs may be open for the retail and institutional or both order period. In a preferred embodiment, the syndicate inputs database contains information as follows in Table 6:

Table 6: Syndicate Inputs

Field Number	Fields for Syndicate Manager	Field Type	Character Length
S1	Name of Issuer	Alphanumeric	150
S2	Title of Issue/Series	Alphanumeric	150
S3	State of Issuer	Alphanumeric	2
S4	Lead Underwriter	Alphanumeric	20
S5	Award Date	Date	10
S6	Dated Date	Date	10
S7	Settlement Date	Date	10
S8	First Interest Payment Date	Date	10
S9	Federal Tax-Exempt	Alphanumeric	1
S10	State Tax-Exempt	Alphanumeric	1
S11	Bank-Qualified	Alphanumeric	1
S12	Alternative Minimum Tax	Alphanumeric	1
S13	Call Date First	Date	10
S14	Call Price First	Percent	8
S15	Call Date Par	Date	10
S16	AAA Insurance	Alphanumeric	15
S17	Letter of Credit Bank	Alphanumeric	15
S18	Letter of Credit Expiration	Date	10
S19	Liquidity Provider	Alphanumeric	15
S20	Liquidity Expiration	Date	10
S21	Moody's Rating	Alphanumeric	7
S22	S&P Rating	Alphanumeric	7
S23	Fitch Rating	Alphanumeric	7
S24	Date - Serial 01	Date	10
S25	Date - Serial 02	Date	10
S26	Date - Serial 03	Date	10
S27	Date - Serial 04	Date	10

S28	Date - Serial 05	Date	10
S29	Date - Serial 06	Date	10
S30	Date - Serial 07	Date	10
S31	Date - Serial 08	Date	10
S32	Date - Serial 09	Date	10
S33	Date - Serial 10	Date	10
S34	Date - Serial 11	Date	10
S35	Date - Serial 12	Date	10
S36	Date - Serial 13	Date	10
S37	Date - Serial 14	Date	10
S38	Date - Serial 15	Date	10
S39	Date - Serial 16	Date	10
S40	Date - Serial 17	Date	10
S41	Date - Serial 18	Date	10
S42	Date - Serial 19	Date	10
S46	Date - Term 03	Date	10
S47	Date - Term 04	Date	10
S48	Date - Term 05	Date	10
S49	Date - Term 06	Date	10
S50	Date - Term 07	Date	10
S51	Date - Term 08	Date	10
S52	Date - Term 09	Date	10
S53	Date - Term 10	Date	10
S54	Initial Reoffering Price - Serial 01	Percent	8
S55	Initial Reoffering Price - Serial 02	Percent	8
S56	Initial Reoffering Price - Serial 03	Percent	8
S57	Initial Reoffering Price - Serial 04	Percent	8
S58	Initial Reoffering Price - Serial 05	Percent	8
S59	Initial Reoffering Price - Serial 06	Percent	8
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S73	Initial Reoffering Price - Serial 20	Percent	8
S74	Initial Reoffering Price - Term 01	Percent	8
S75	Initial Reoffering Price - Term 02	Percent	8
S76	Initial Reoffering Price - Term 03	Percent	8

S77	Initial Reoffering Price - Term 04	Percent	8
S78	Initial Reoffering Price - Term 05	Percent	8
S79	Initial Reoffering Price - Term 06	Percent	8
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S81	Initial Reoffering Price - Term 08	Percent	8
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S83	Initial Reoffering Price - Term 10	Percent	8
S84	Coupon - Serial 01	Percent	8
S85	Coupon - Serial 02	Percent	8
S86	Coupon - Serial 03	Percent	8
S87	Coupon - Serial 04	Percent	8
S88	Coupon - Serial 05	Percent	8
S89	Coupon - Serial 06	Percent	8
S90	Coupon - Serial 07	Percent	8
S91	Coupon - Serial 08	Percent	8
S92	Coupon - Serial 09	Percent	8
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S95	Coupon - Serial 12	Percent	8
S96	Coupon - Serial 13	Percent	8
S97	Coupon - Serial 14	Percent	8
S98	Coupon - Serial 15	Percent	8
S99	Coupon - Serial 16	Percent	8
S100	Coupon - Serial 17	Percent	8
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S102	Coupon - Serial 19	Percent	8
S103	Coupon - Serial 20	Percent	8
S104	Coupon - Term 01	Percent	8
S105	Coupon - Term 02	Percent	8
S106	Coupon - Term 03	Percent	8
S107	Coupon - Term 04	Percent	8
S108	Coupon - Term 05	Percent	8
S109	Coupon - Term 06	Percent	8
S110	Coupon - Term 07	Percent	8
S111	Coupon - Term 08	Percent	8
S112	Coupon - Term 09	Percent	8
S113	Coupon - Term 10	Percent	8
S114	Maximum Sales Commission - Serial 01	Percent	8
S115	Maximum Sales Commission - Serial 02	Percent	8
S116	Maximum Sales Commission - Serial 03	Percent	8
S117	Maximum Sales Commission - Serial 04	Percent	8
S118	Maximum Sales Commission - Serial 05	Percent	8

S119	Maximum Sales Commission - Serial 06	Percent	8
S120	Maximum Sales Commission - Serial 07	Percent	8
S121	Maximum Sales Commission - Serial 08	Percent	8
S122	Maximum Sales Commission - Serial 09	Percent	8
S123	Maximum Sales Commission - Serial 10	Percent	8
S124	Maximum Sales Commission - Serial 11	Percent	8
S125	Maximum Sales Commission - Serial 12	Percent	8
S126	Maximum Sales Commission - Serial 13	Percent	8
S127	Maximum Sales Commission - Serial 14	Percent	8
S128	Maximum Sales Commission - Serial 15	Percent	8
S129	Maximum Sales Commission - Serial 16	Percent	8
S130	Maximum Sales Commission - Serial 17	Percent	8
S131	Maximum Sales Commission - Serial 18	Percent	8
S132	Maximum Sales Commission - Serial 19	Percent	8
S133	Maximum Sales Commission - Serial 20	Percent	8
S134	Maximum Sales Commission - Term 01	Percent	8
S135	Maximum Sales Commission - Term 02	Percent	8
S136	Maximum Sales Commission - Term 03	Percent	8
S137	Maximum Sales Commission - Term 04	Percent	8
S138	Maximum Sales Commission - Term 05	Percent	8
S139	Maximum Sales Commission - Term 06	Percent	8
S140	Maximum Sales Commission - Term 07	Percent	8
S141	Maximum Sales Commission - Term 08	Percent	8
S142	Maximum Sales Commission - Term 09	Percent	8

S143	Maximum Sales Commission - Term 10	Percent	8
S144	Initial Reoffering Yield - Serial 01	Percent	8
S145	Initial Reoffering Yield - Serial 02	Percent	8
S146	Initial Reoffering Yield - Serial 03	Percent	8
S147	Initial Reoffering Yield - Serial 04	Percent	8
S148	Initial Reoffering Yield - Serial 05	Percent	8
S149	Initial Reoffering Yield - Serial 06	Percent	8
S150	Initial Reoffering Yield - Serial 07	Percent	8
S151	Initial Reoffering Yield - Serial 08	Percent	8
S152	Initial Reoffering Yield - Serial 09	Percent	8
S153	Initial Reoffering Yield - Serial 10	Percent	8
S154	Initial Reoffering Yield - Serial 11	Percent	8
S155	Initial Reoffering Yield - Serial 12	Percent	8
S156	Initial Reoffering Yield - Serial 13	Percent	8
S157	Initial Reoffering Yield - Serial 14	Percent	8
S158	Initial Reoffering Yield - Serial 15	Percent	8
S159	Initial Reoffering Yield - Serial 16	Percent	8
S160	Initial Reoffering Yield - Serial 17	Percent	8
S161	Initial Reoffering Yield - Serial 18	Percent	8
S162	Initial Reoffering Yield - Serial 19	Percent	8
S163	Initial Reoffering Yield - Serial 20	Percent	8
S164	Initial Reoffering Yield - Term 01	Percent	8
S165	Initial Reoffering Yield - Term 02	Percent	8
S166	Initial Reoffering Yield - Term 03	Percent	8
S167	Initial Reoffering Yield - Term 04	Percent	8
S168	Initial Reoffering Yield - Term 05	Percent	8
S169	Initial Reoffering Yield - Term 06	Percent	8
S170	Initial Reoffering Yield - Term 07	Percent	8
S171	Initial Reoffering Yield - Term 08	Percent	8
S172	Initial Reoffering Yield - Term 09	Percent	8
S173	Initial Reoffering Yield - Term 10	Percent	8

This information is entered by the syndicate manager for a municipal bond issue. This is only one example of how the syndicate inputs database might appear. Fields are divided into general information concerning the bond issue (S1-S23) and into the following categories: maturity dates (S24-S53); minimum price (S54-S83); coupon rate (S84-S113); maximum sales commissions (S114-S143); and yield (S144-S173).

[0039] After receipt or input of the information derived in steps 1 and 2, the system performs the Primary Market Distribution Function or process (steps 3 and 4 of Fig. 4). This process entails comparing the inquiry database against the syndicate inputs database for each new issue (step 3). Next, the process will identify all matches between the

syndicate inputs and the profiles (step 4). In steps 3 and 4, a user of the system enters an inquiry or an order that represents a potential purchase of fixed income securities. This information includes the commission, if any, that the user desires to earn. The system compares this information with information provided by the underwriter (on behalf of the issuer) during the primary offering process of originally issued bonds. If the system identifies a match, it notifies the user. Included in the notification may be the particular price that will allow the user to earn the lower of his desired commission or the maximum commission for that maturity agreed to by the underwriter and the issuer for that particular issue. Importantly, different offerers may input different desired commission amounts within their own set ranges. Using the DPCS of the present invention, the system performs appropriate database querying and matching in steps 3 and 4.

[0040] Fig. 5 illustrates the method of steps 3 and 4 in Fig. 4 that the system would execute when operating with municipal bonds. In this embodiment, the fixed income security is a municipal bond offered on the primary market. This method includes the steps of: matching a user's preferred range of issue states from the inquiry database with a state of issue from the syndicate inputs database (step 100); matching the user's preferred range of maturities from the inquiry database with a fixed income security issue maturity range from the syndicate inputs database (step 200); matching the user's four dimensions of tax status from the inquiry database with a fixed income security tax status from the syndicate inputs database (step 300); matching the user's preferred ratings from the inquiry database with a fixed income security rating from the syndicate inputs database (step 400); matching the user's preferred minimum suitability rating from the inquiry database with a fixed income security minimum suitability rating from the syndicate inputs database (step 500); and based upon any matches, increasing a sales credit to a maximum amount, as determined by data in at least one of the inquiry and the syndicate inputs database (step 600).

[0041] This method will perform the six steps illustrated in Fig. 5 for each open inquiry and syndicate pricing input. The first step (100) checks whether the new issue meets the investor's state preference. In this step, the method determines the range if the retail states desired match the state of issue. If no state is entered, the method proceeds.

[0042] The next step (200) checks whether the investor's desired range is within the range of maturities for the new issue. This step checks whether the desired maturity date of retail investor is in the range of issue maturities.

[0043] The next step (300) matches the four dimensions of the tax status of the investor's preferences against the new issue. All retail investor requests for tax status must match issue specification. If no detailed preferences, the method proceeds.

[0044] The next step (400) checks the investor's rating preferences (including bond insurance) versus the syndicate pricing. First, the method checks for retail investor's desire for AAA insurance. If no match occurs, the method entails requesting a minimum credit rating.

[0045] In the next step (500), the method performs the previously described test by investors for minimum suitability. This step ensures the minimum suitability rating of the investor.

[0046] In the last step (600), the method performs the pricing parameter matching formula. This step determines if any bonds meet the criteria. If the bond(s) do meet the criteria, the method increases sales credit to the maximum amount, as determined by retail, firm or syndicate parameters. The result of the test will be the combination of price, commission and yield that meet the issuer and investor's parameters at the lowest clearing price and the highest yield. As shown in Table 7, an example of the pricing parameters test is as follows:

Table 7: Example of Pricing Parameters Test

SYNDICATE/FIRM INPUTS		RETAIL INPUTS	
DATED:	12/01/00		
SETTLE:	12/01/00		
MATURITY:	12/01/10		
COUPON:	5.000%	MIN COUPON (R12):	5.000%
YIELD:	5.500%	MIN YIELD (R13)	5.250%
PRICE TO ISSUER:	96.193%	MAX PRICE (R10)	100.000%
		MIN COMMISSION (R11)	
PRICE TO INVESTOR (MIN)	96.693%		
PRICE TO INVESTOR (MAX)	99.193%		
SALES CREDIT (MIN)	0.500%		
SALES CREDIT (MAX)	3.000%		
TESTS TO SEE IF MATCH IS POSSIBLE:			
Is Syndicate Bond Coupon equal or greater than minimum?		YES.	
Is Syndicate Bond Yield equal or greater than minimum?		YES.	
Is Syndicate Bond Price to Investor equal or less than maximum?		YES.	
IF MATCH IS POSSIBLE, MATCH PRICE CAN BE DETERMINED AS THE MINIMUM OF:			

SYNDICATE MAX PRICE:	99.193%
MAX PRICE:	100.000%
MATCH PRICE:	98.074%
Additional Markup from Syndicate Price to Issuer:	1.881%

[0047] After the system compares the inquiry database data with the syndicate inputs data, and identifies all matches between the syndicate inputs and the profiles, the system may generate an electronic notice from the municipal syndicate desk pricing the issue to the broker. An example electronic order solicitation is illustrated in Fig. 6. Based upon this electronic order solicitation, a buyer may complete the order. It is also envisioned that a buyer may directly place an order based upon the matches. The buyer may be a user, a broker, a sales assistant, a customer, a retail salesperson, an institutional salesperson, an investor, a retail investor, an institutional investor, etc.

[0048] The present invention is also directed to an apparatus for implementing a communication and order matching method for fixed income securities, including: means for building and maintaining an inquiry database; means for building and maintaining a syndicate inputs database; means for comparing the inquiry database with the syndicate inputs database; and means for identifying matches between the data in the inquiry database and the syndicate inputs database.

[0049] In an alternative embodiment, the method may also include a compliance assessment. This may be achieved by the steps of: (a) receiving inputs from at least one broker dealer; (b) comparing the retail inquiry database and syndicate inputs database matches to the broker dealer inputs; and (c) assessing compliance of the order solicitation generations by the results of the comparison. These inputs may contain information as follows in Table 8:

Table 8: Broker Dealer Inputs

Field Number	Fields for Syndicate Manager	Field Type	Character Length
BD1	Maximum Sales Credit - Serial 01	Percent	8
BD2	Maximum Sales Credit - Serial 02	Percent	8
BD3	Maximum Sales Credit - Serial 03	Percent	8
BD4	Maximum Sales Credit - Serial 04	Percent	8
BD5	Maximum Sales Credit - Serial 05	Percent	8
BD6	Maximum Sales Credit - Serial 06	Percent	8

BD7	Maximum Sales Credit - Serial 07	Percent	8
BD8	Maximum Sales Credit - Serial 08	Percent	8
BD9	Maximum Sales Credit - Serial 09	Percent	8
BD10	Maximum Sales Credit - Serial 10	Percent	8
BD14	Maximum Sales Credit - Serial 14	Percent	8
BD15	Maximum Sales Credit - Serial 15	Percent	8
BD16	Maximum Sales Credit - Serial 16	Percent	8
BD17	Maximum Sales Credit - Serial 17	Percent	8
BD18	Maximum Sales Credit - Serial 18	Percent	8
BD19	Maximum Sales Credit - Serial 19	Percent	8
BD20	Maximum Sales Credit - Serial 20	Percent	8
BD21	Maximum Sales Credit - Term 01	Percent	8
BD22	Maximum Sales Credit - Term 02	Percent	8
BD23	Maximum Sales Credit - Term 03	Percent	8
BD24	Maximum Sales Credit - Term 04	Percent	8
BD25	Maximum Sales Credit - Term 05	Percent	8
BD26	Maximum Sales Credit - Term 06	Percent	8
BD27	Maximum Sales Credit - Term 07	Percent	8
BD28	Maximum Sales Credit - Term 08	Percent	8
BD29	Maximum Sales Credit - Term 09	Percent	8
BD30	Maximum Sales Credit - Term 10	Percent	8
BD31	Suitability Rating	Numeric	2

This is the information to be entered by the brokerage firm. Each firm will have a maximum commission schedule as shown in Fields BD1 through BD30. Field BD31 will be a minimum suitability rating. Any electronic order solicitation that is generated by the system with a lower suitability rating than BD31 must be approved by a manager before going to the broker.

[0050] The present invention is a unique process and system that beneficially changes the business practices within the fixed income securities market, specifically, but not exclusively, the municipal bond market. By making the primary market for municipal bonds more efficient, the present invention will increase the underwriter's revenues from the primary market, decrease the issuer's borrowing costs and allow retail investors to earn higher yields.

[0051] This invention has been described with reference to the preferred embodiments. Obvious modifications and alterations will occur to others upon reading and understanding the preceding detailed description. It is intended that the invention be construed as including all such modifications and alterations.

I claim:

1. A differential commission method for the distribution of primary market fixed income securities, comprising the steps of:

issuing, by an underwriter, at least one fixed income security on the primary market;

offering the at least one fixed income security to at least one investor;

setting, by a first offerer, a price including a commission, for the at least one fixed income security;

setting, by a subsequent offerer, a different price, including a different commission, for the at least one fixed income security; and

purchasing, by the at least one investor, the at least one fixed income security.

2. The method of claim 1, wherein the first offered commission is set within a predetermined range.

3. The method of claim 2, wherein the commission range is from about 0% to about 4% of the principal amount of the fixed income security.

4. The method of claim 1, wherein the subsequent offerer commission is set within a predetermined range.

5. The method of claim 4, wherein the commission range is from about 0% to about 4% of the principal amount of the fixed income security.

6. The method of claim 1, wherein the offerer is one of a broker, a retail salesperson and an institutional salesperson.

7. The method of claim 1, wherein the investor is one of a retail investor and an institutional investor.

8. The method of claim 1, further comprising the step of determining, by the issuer, a portion of the fixed income security price that will result in issuer cost savings.

9. The method of claim 1, wherein the fixed income security is one of a municipal bond, a corporate bond and a government agency security.

10. A computer-implemented communication and order matching method for fixed income securities, comprising the steps of:

- building and maintaining an inquiry database;
- building and maintaining a syndicate inputs database;
- comparing the inquiry database with the syndicate inputs database; and
- identifying matches between the data in the inquiry database and the syndicate inputs database.

11. The method of claim 10, further comprising the steps of:

- receiving inputs from at least one broker dealer;
- comparing the inquiry database and syndicate inputs database matches to the broker dealer inputs; and
- assessing compliance of the order solicitation generations by the results of the comparison.

12. The method of claim 11, wherein the at least one broker dealer inputs comprise at least one field that contains data regarding one of maximum sales credits and a suitability rating.

13. The method of claim 10, wherein the method is employed in one of the primary market and the secondary market.

14. The method of claim 10, wherein the inquiry database comprises at least one field that contains at least one of a desired commission, a minimum commission, a maximum commission and a commission range acceptable to the a first offerer.

15. The method of claim 10, wherein the inquiry database comprises at least one field that contains at least one of a desired commission, a minimum commission, a maximum commission and a commission range acceptable to a subsequent offerer.

16. The method of claim 10, wherein an offerer enters data to build the inquiry database.

17. The method of claim 16, wherein the offerer is one of a broker, a retail salesperson and an institutional salesperson.

18. The method of claim 10, wherein the inquiry database comprises at least one field that contains data regarding at least one of state of issuer, minimum maturity date, maximum maturity date, federal tax-exempt status, state tax-exempt status, bank-qualified status, alternative minimum tax, AAA Insurance status, minimum underlying rating, desired commission, maximum price, minimum commission, minimum coupon, minimum yield, brokerage name, investor name and investor account number.

19. The method of claim 10, wherein the inquiry database is comprised of multiple discrete databases.

20. The method of claim 19, wherein the multiple databases are linked.

21. The method of claim 10, wherein the data regarding an individual inquiry in the inquiry database is only maintained for a set period.

22. The method of claim 21, wherein the period is about 14 days.

23. The method of claim 21, wherein, after the set period expires, a notice is transmitted to the originator of the individual inquiry data.

24. The method of claim 23, wherein the originator is one of a user, a broker, a customer, a retail salesperson and an institutional salesperson.

25. The method of claim 10, further comprising the step of receiving authorization from a brokerage firm to generate an order solicitation.

26. The method of claim 10, wherein the inquiry database is updated by one of a user, a broker, a sales assistant, a customer, a retail salesperson and an institutional salesperson.

27. The method of claim 10, wherein syndicate representatives enter data to build the syndicate inputs database.

28. The method of claim 10, wherein the syndicate inputs database comprises at least one field that contains data regarding at least one of name of issuer, title of issue/series, state of issuer, lead underwriter, award date, dated date, settlement date, first interest payment date, federal tax-exempt, state tax-exempt, bank-qualified, alternative minimum tax, call date first, call price first, call date par, AAA insurance, letter of credit bank, letter of credit expiration, liquidity provider, liquidity expiration, Moody's Rating, S&P Rating, Fitch Rating, date - serial nos., date - term nos., initial reoffering price - serial nos., initial reoffering price - term nos., coupon - serial nos., coupon - term nos., maximum sales commissions - serial nos., maximum commissions - term nos., initial reoffering yield - serial nos. and initial reoffering yield - term nos.

29. The method of claim 10, wherein the fixed income security is one of a municipal bond, a corporate bond and a government agency security.

30. The method of claim 10, wherein the syndicate inputs database is comprised of multiple discrete databases.

31. The method of claim 30, wherein the multiple databases are linked.

32. The method of claim 10, further comprising the step of generating an order solicitation based upon the matches between the inquiry database and the syndicate inputs database.

33. The method of claim 32, further comprising the step of placing an order, by a buyer, based upon the generated order solicitation.

34. The method of claim 33, wherein the buyer is one of a user, a broker, a sales assistant, a customer, a retail salesperson, an institutional salesperson, an investor, a retail investor and an institutional investor.

35. The method of claim 10, further comprising the step of placing an order, by a buyer, based upon the matches.

36. The method of claim 35, wherein the buyer is one of a user, a broker, a sales assistant, a customer, a retail salesperson, an institutional salesperson, an investor, a retail investor and an institutional investor.

37. The method of claim 10, further comprising the step of generating a notice to a user that a particular price will allow the user to earn the lower of a desired commission and the maximum commission for the fixed income security, as agreed to by an underwriter.

38. The method of claim 10, wherein the fixed income security is a municipal bond offered on the primary market.

39. The method of claim 38, further comprising the steps of:

matching a user's preferred range of issue states from the inquiry database with a state of issue from the syndicate inputs database;

matching the user's preferred range of maturities from the inquiry database with a fixed income security issue maturity range from the syndicate inputs database;

matching the user's four dimensions of tax status from the inquiry database with a fixed income security tax status from the syndicate inputs database;

matching the user's preferred ratings from the inquiry database with a fixed income security rating from the syndicate inputs database;

matching the user's preferred minimum suitability rating from the inquiry database with a fixed income security minimum suitability rating from the syndicate inputs database; and

based upon any matches, increasing a sales credit to a maximum amount, as determined by data in at least one of the inquiry and the syndicate inputs database.

40. The method of claim 39, further comprising the step of matching a user's preferred bond insurance status from the inquiry database with a fixed income security bond insurance status from the syndicate inputs database.

41. The method of claim 40, wherein the bond insurance status indicates whether the fixed income security is covered by AAA insurance.

42. An apparatus for implementing a differential commission method for the distribution of primary market fixed income securities, comprising:

means for purchasing from an issuer, by an underwriter, at least one fixed income security on the primary market;

means for offering the at least one fixed income security to at least one investor;

means for setting, by a first offerer, a price, including a commission, for the at least one fixed income security;

means for setting, by a subsequent offerer, a different price, including a different commission, for the at least one fixed income security; and

means for purchasing, by the at least one investor, the at least one fixed income security.

43. An apparatus for implementing a communication and order matching method for fixed income securities, comprising:

means for building and maintaining an inquiry database;

means for building and maintaining a syndicate inputs database;

means for comparing the inquiry database with the syndicate inputs database;

and

means for identifying matches between the data in the inquiry database and the syndicate inputs database.

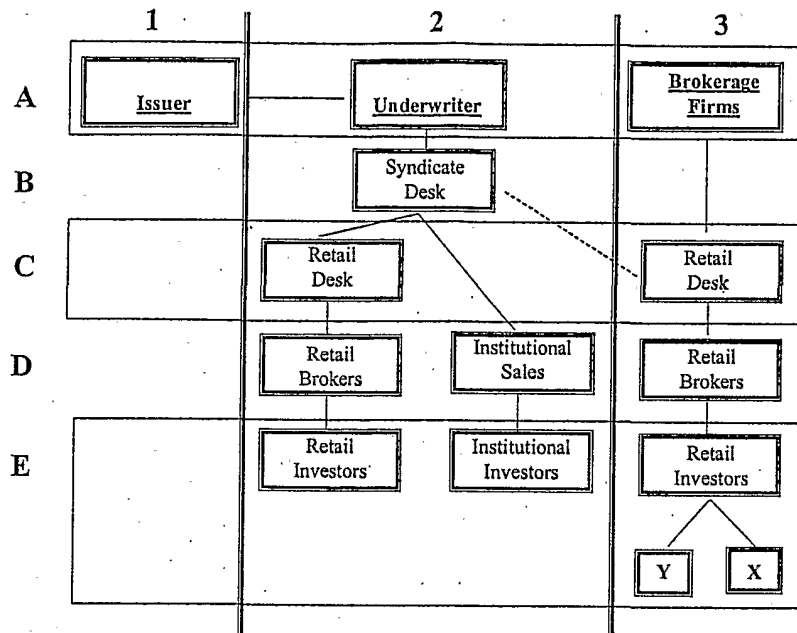


FIGURE 1

Bond "Mark Up"

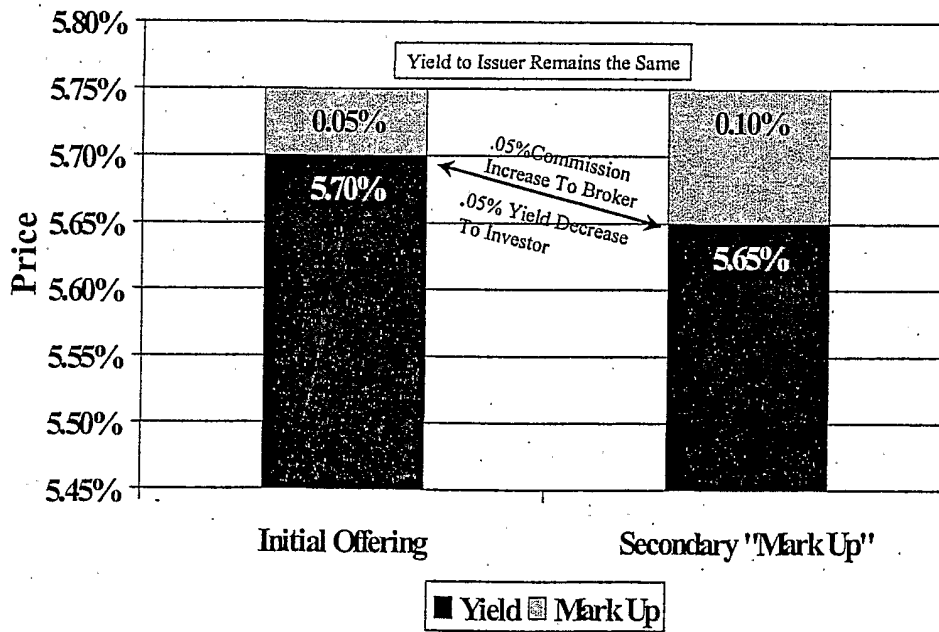


FIGURE 2

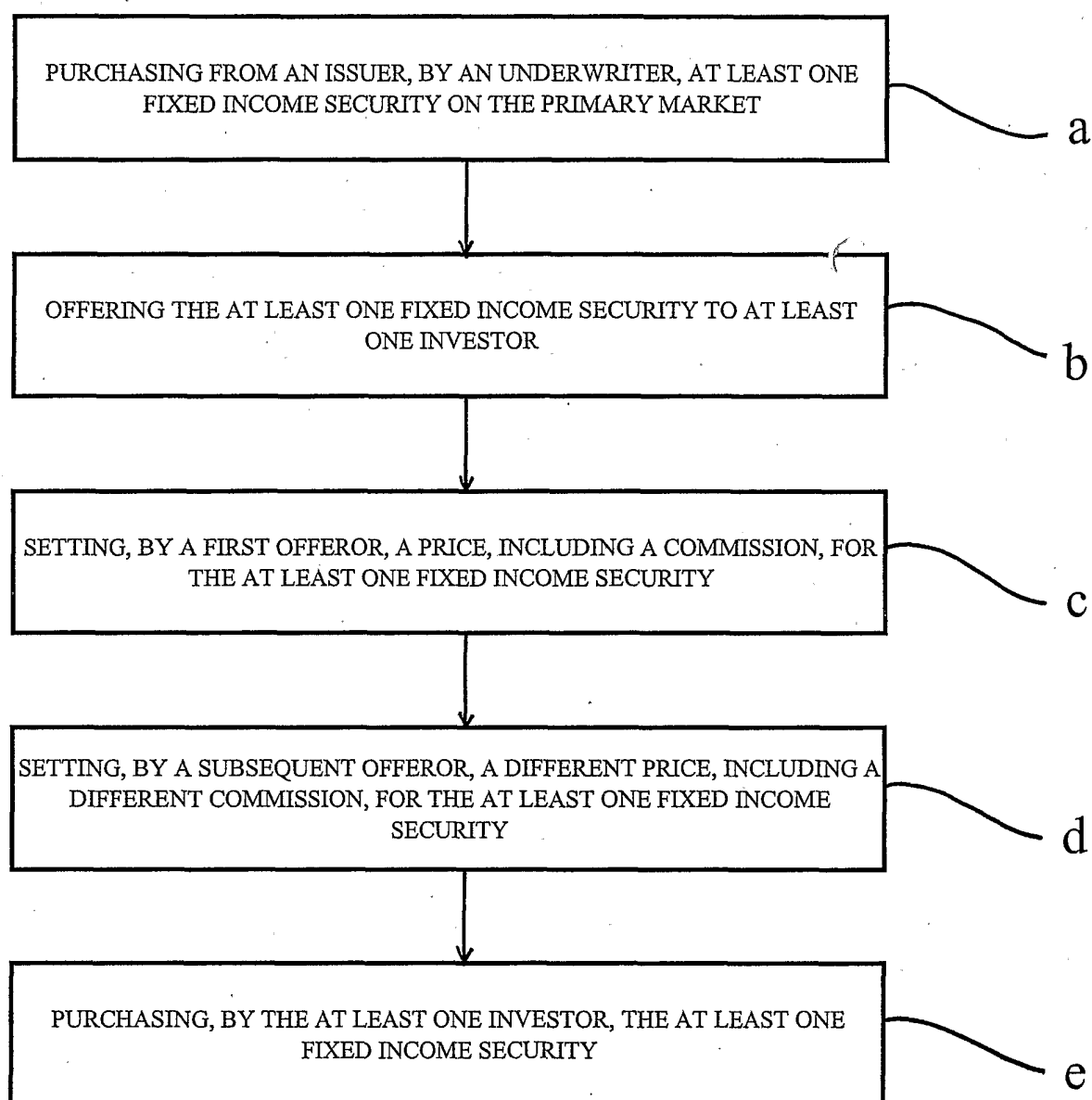


FIGURE 3

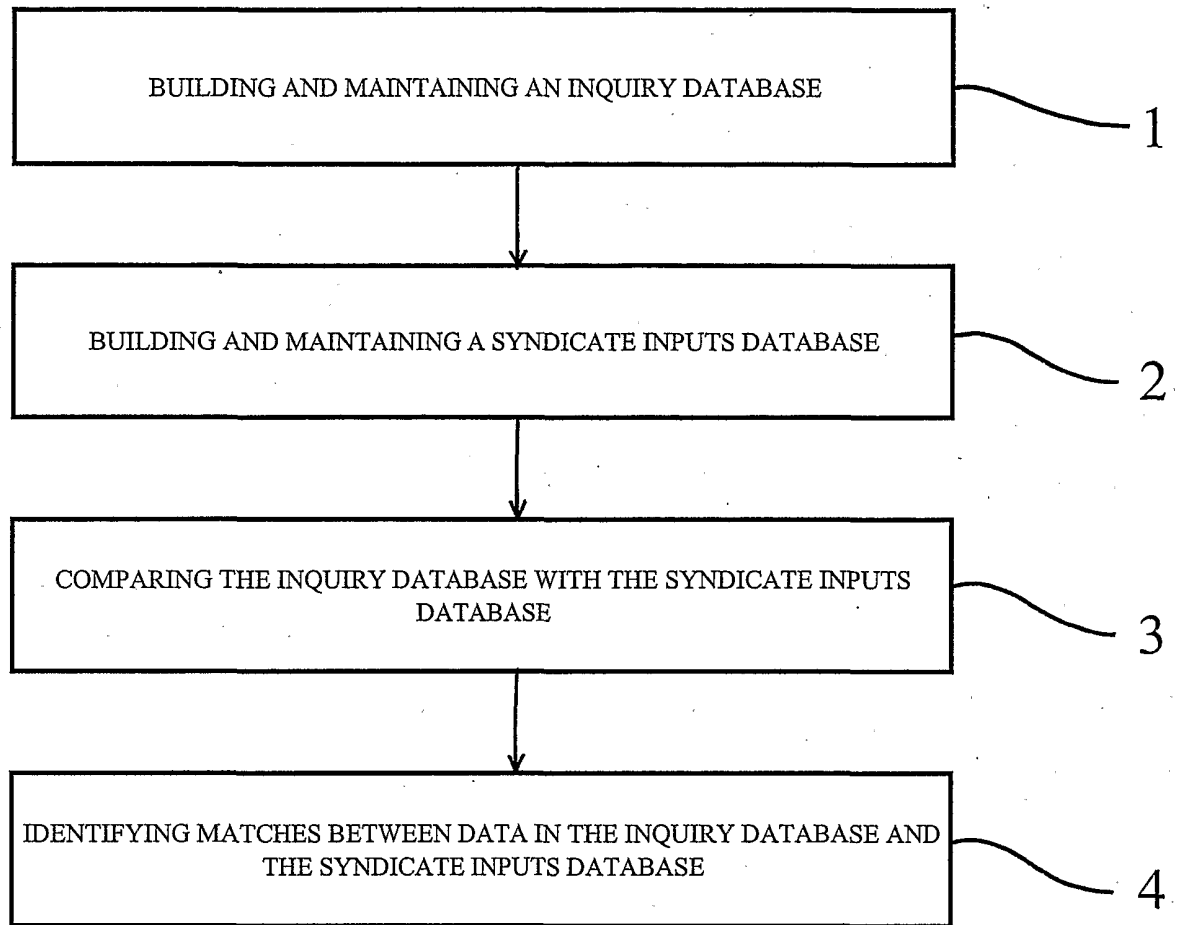


FIGURE 4

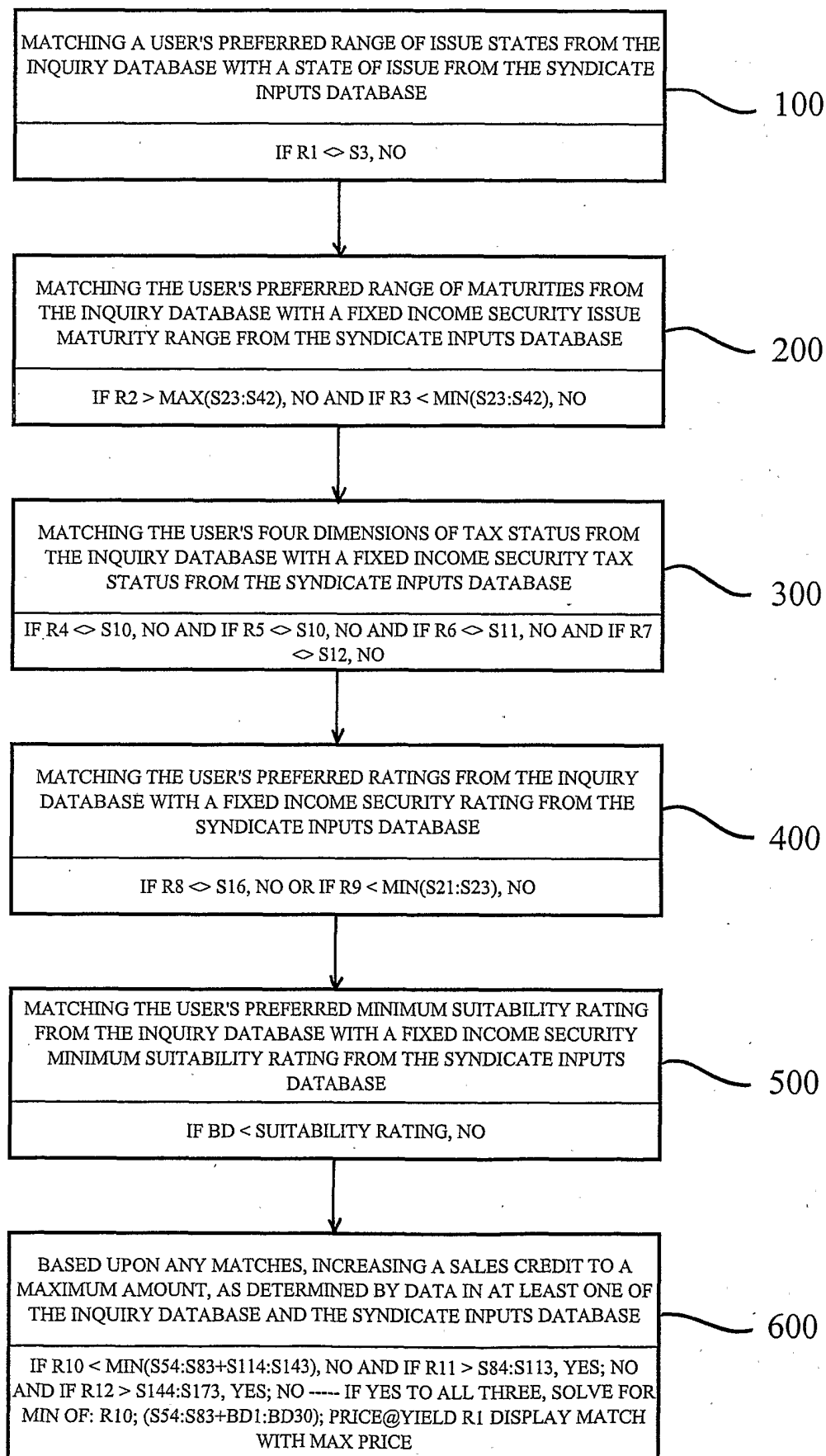


FIGURE 5

NOTICE: Your client with Inquiry Number 2222 may be interested in purchasing \$100,000 of the new municipal issue below.



If you would like to submit this order to the Retail Syndicate Desk, please click the box below:



If you would like further information on this or other issues please call or email the Retail Syndicate Desk

Phone: (412) 555-1212

Email: Retaildesk@PriMuni.com

NEW ISSUE:

ALL STATE SCHOOL DISTRICT

Coupon:	5.00%
Maturity:	1-Apr-08
Price:	\$ 100.00
Sales Credit:	\$ 12.50
First Coupon:	1-Oct-02
Settlement:	1-Mar-02

FIGURE 6