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(54) SYSTEM AND METHOD FOR GENERATING RISK MANAGEMENT CURVES

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(52) **U.S. Cl.** **705/2**; 705/35; 705/38

See application file for complete search history.

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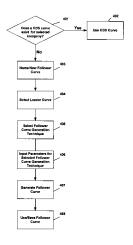
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(57) ABSTRACT

Accurate risk management curves are generated for companies that have limited market information available to generate a risk management curve purely from the market information by allowing a pre-existing risk management curve (referred to as a "leader curve") to be selected as a basis for generating a new risk management curve (referred to as a "target curve"). The leader curve may pertain to a company (referred to as the "leader company") that has similar characteristics to the company for which the target curve is being generated (referred to as the "target company"). Further, any known differences between the leader company and the target company may be reflected in the target curve by incorporating any number of offsets between the leader curve and the target curve.

18 Claims, 18 Drawing Sheets



US 7,890,343 B1 Page 2

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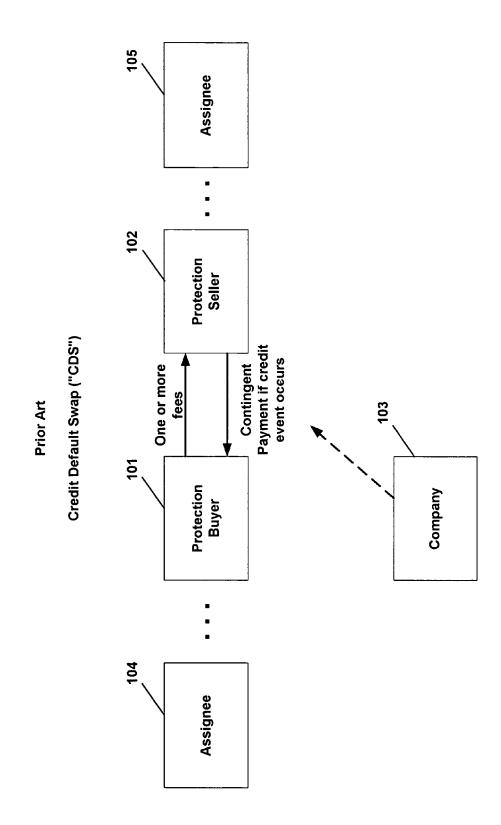


Fig.

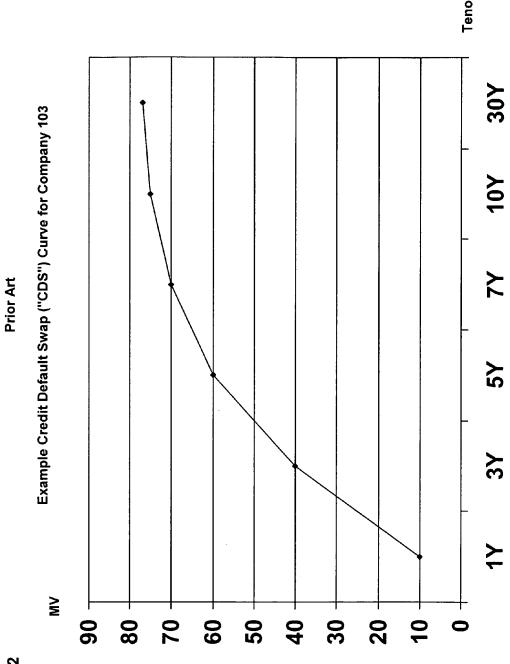


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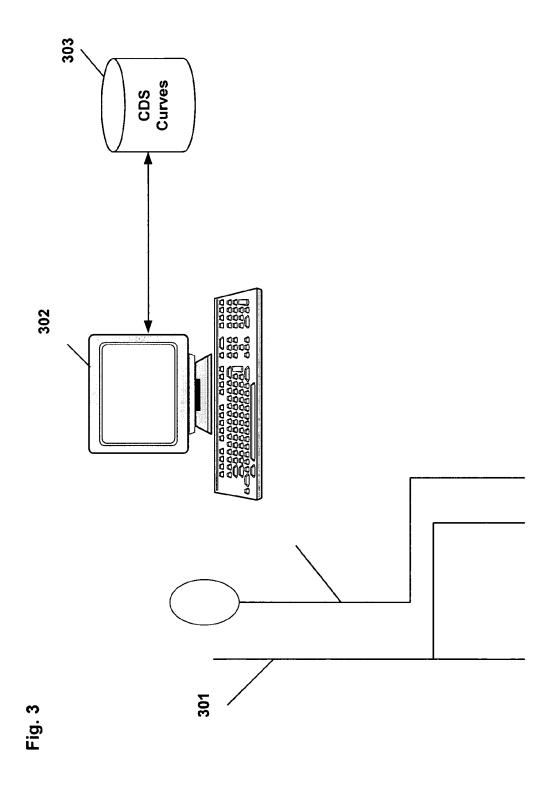
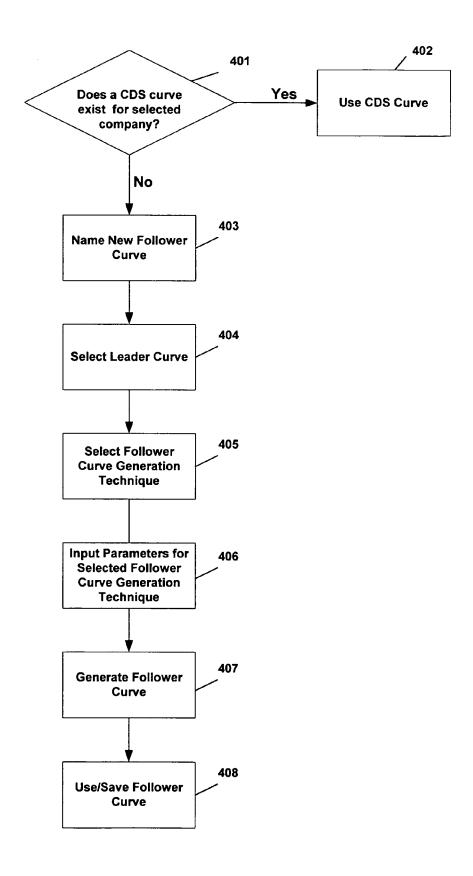


Fig. 4



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Fig. 5

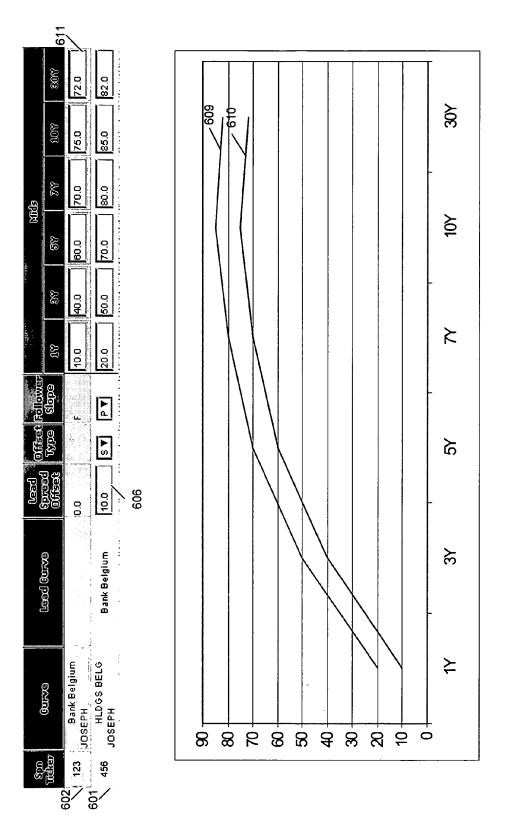


Fig. 6

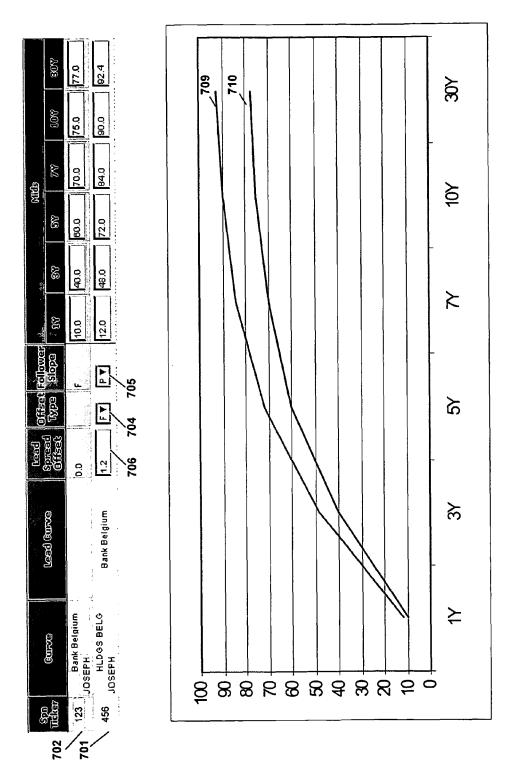
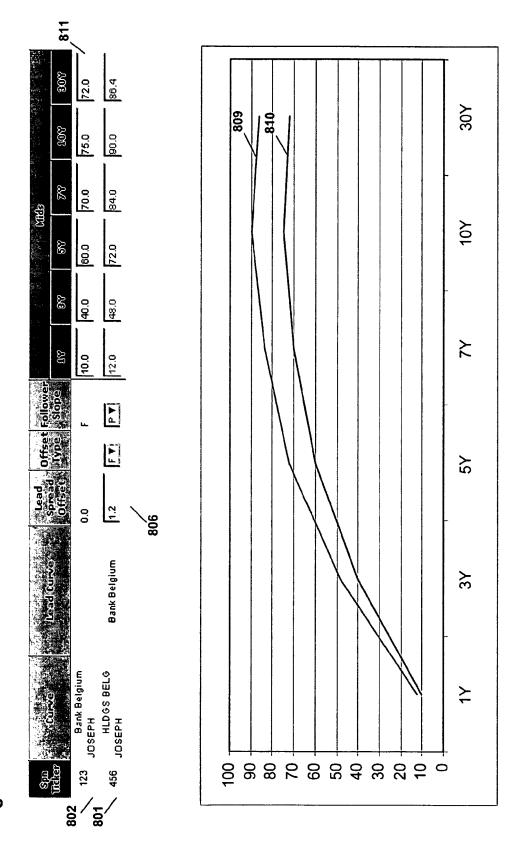


Fig. 7



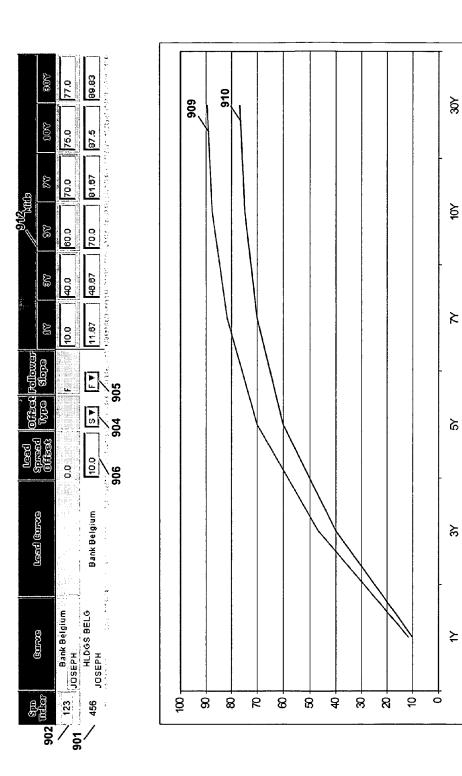
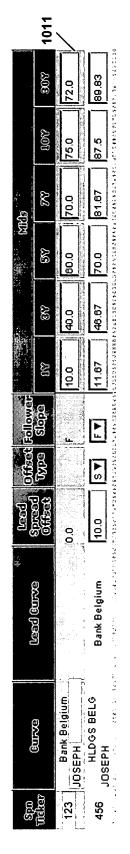


Fig. 9



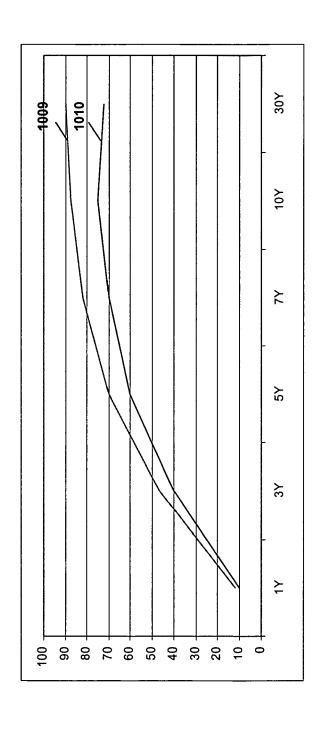
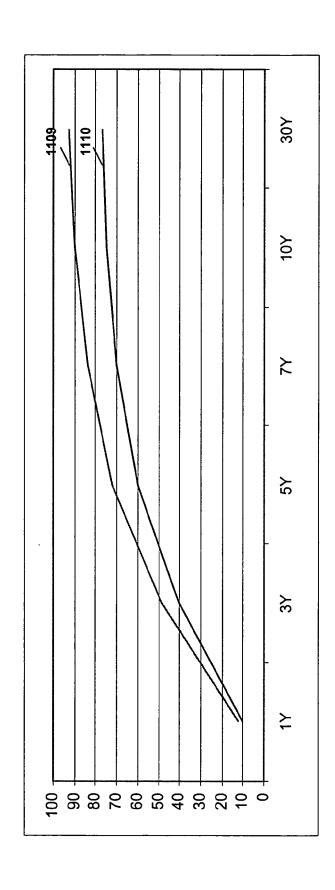


Fig. 1

Feb. 15, 2011



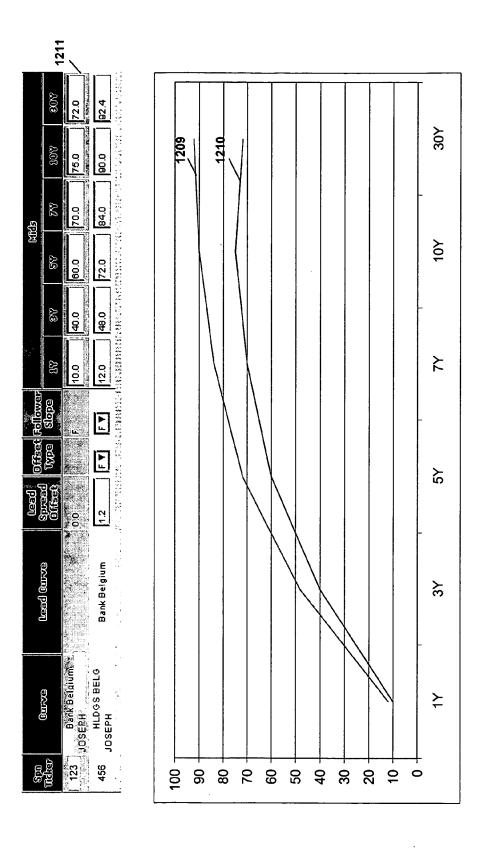
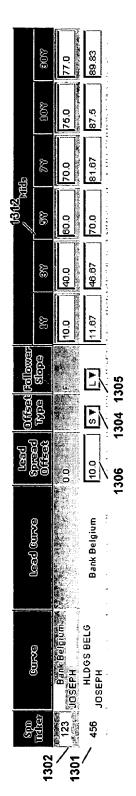
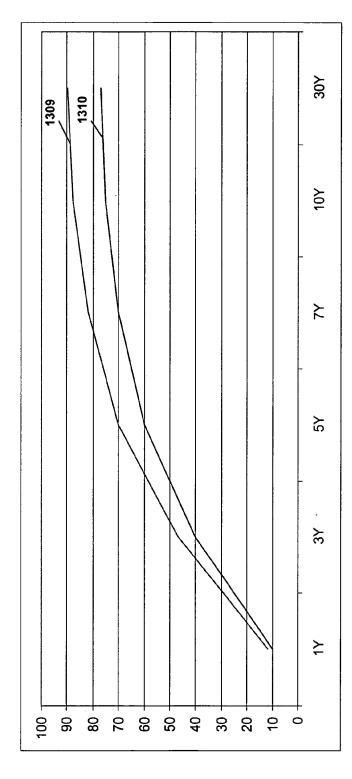


Fig. 1

Feb. 15, 2011





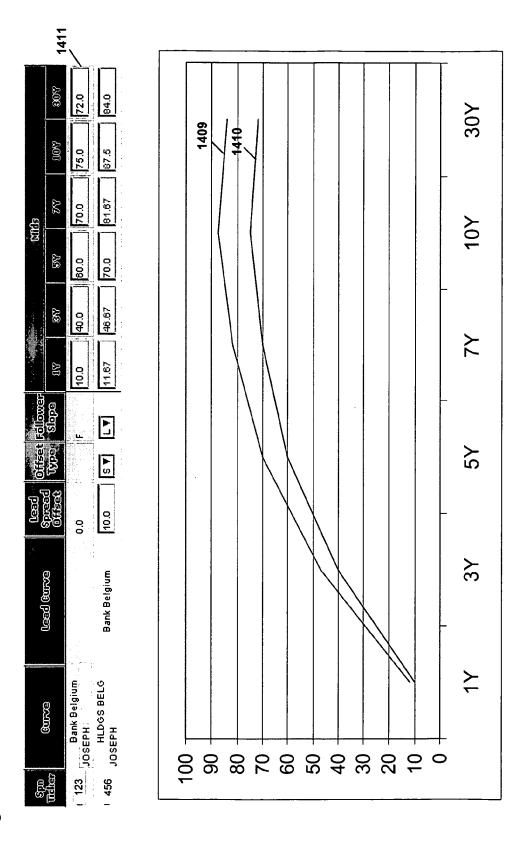


Fig. 1

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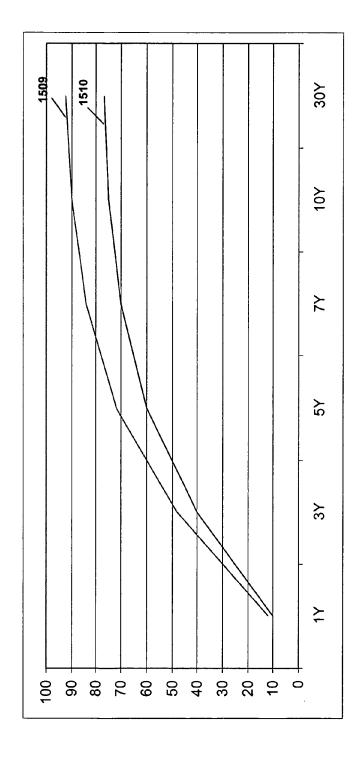
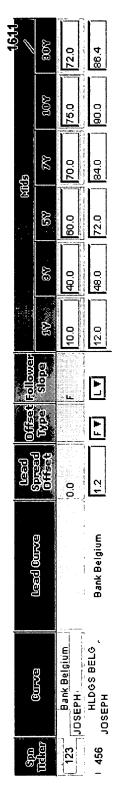
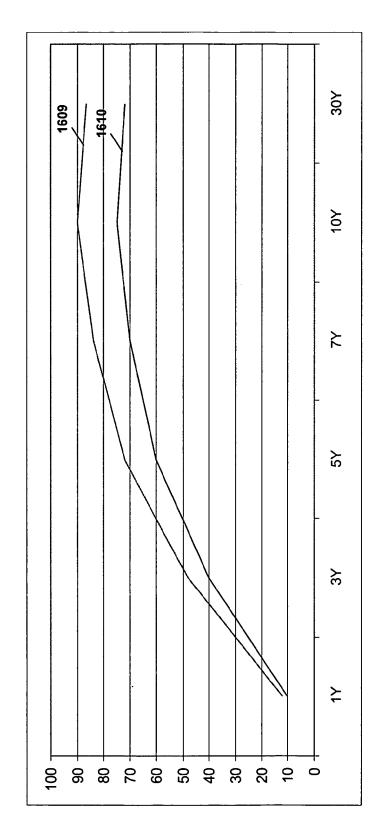


Fig. 15

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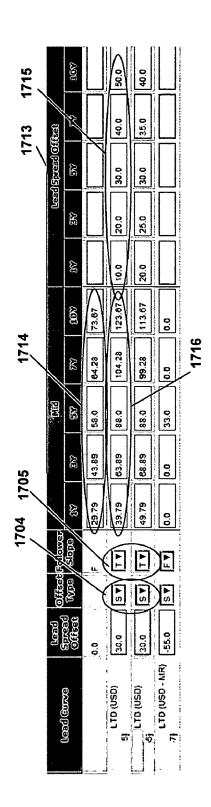
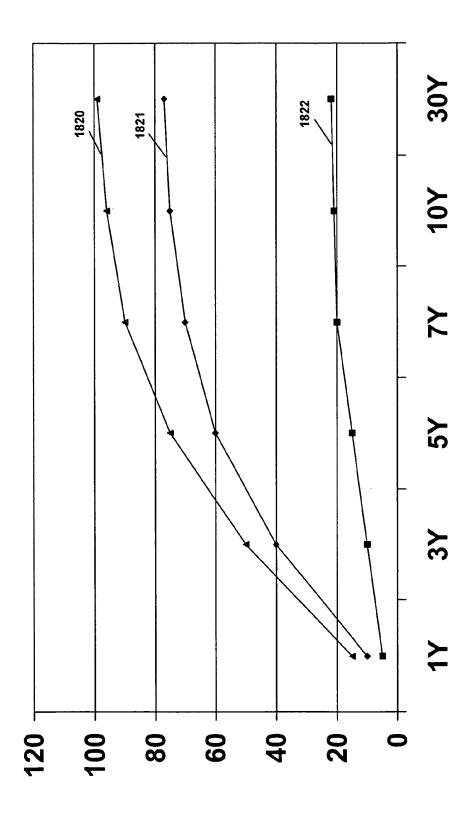


Fig. 1



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SYSTEM AND METHOD FOR GENERATING RISK MANAGEMENT CURVES

FIELD OF THE INVENTION

This invention relates to a system and a method for generating curves used by organizations to evaluate their risk positions. In particular, the present invention pertains to a system and a method for deriving a target curve from a pre-existing leader curve deemed to have characteristics related to the 10 target curve.

BACKGROUND OF THE INVENTION

FIG. 1 illustrates a Credit Default Swap, or "CDS," which 15 is a type of contract that is often used to hedge against the risk that a company 103 will default on a loan or some other financial obligation. A CDS involves a protection buyer 101 and a protection seller 102. Most commonly, the protection buyer 101 pays the protection seller 102 one or more fees, and 20 the protection seller 102 pays the protection buyer 101 a notional amount if and only if a predefined credit event occurs. For example, assume protection buyer 101 makes a loan to company 103. If the protection buyer 101 desires to hedge against the risk that the company 103 will default on the 25 loan, the protection buyer 101 may enter into a CDS with the protection seller 102. In this example, the CDS may be structured so that the protection buyer 101 agrees to pay the protection seller 102 one or more fees, and, in return, the protection seller 102 agrees to pay the protection buyer 101 a 30 notional amount in the event that the company 103 defaults on

The protection buyer 101 and the protection seller 102 may assign their benefits and obligations under the CDS to another party. For example, the protection buyer 101 may assign to an 35 assignee 104, for example, its obligation to pay the protection seller 102 the one or more fees and its benefit to receive the notional amount from the protection seller 102 in the event that the company 103 defaults. In this situation, the assignee 104 is obligated to pay the protection seller 102 the one or 40 more fees, but would receive the notional amount from the protection seller 102 if the company 103 defaults. On the other hand, the protection seller 102 may assign to an assignee 105 its obligation to pay the notional amount and its benefit of receiving the one or more fees. If protection buyer 45 101 assigns to the assignee 104, and the protection seller 102 assigns to the assignee 105, the assignee 104 pays the one or more fees to the assignee 105, and the assignee 105 pays the assignee 104 the notional amount if the company 103 defaults.

Depending upon the perceived credit strength of the company 103, the assignee 104 will pay more or less money to the protection buyer 101 in order to step into the position of the protection buyer 101 in the CDS. Similarly, depending upon the perceived credit strength of the company 103, the assignee 55 105 will pay more or less money to the protection seller 102 in order to step into the position of the protection seller 102 in the CDS. Accordingly, the price at which other parties are willing to pay to enter into a CDS via assignment is an indicator of the perceived credit strength of the company 103. 60

The price that the assignee 104 is willing to pay to step into the position of the protection buyer 101 is referred to herein as a market value of the CDS. The market value of the CDS not only depends upon the perceived credit strength of the company 103, but also the duration of the CDS, referred to herein 65 as the "tenor." The tenor of the CDS is the amount of time that the protection seller 102 is obligated to pay the notional

2

amount to the protection buyer 101 if the company 103 defaults. For example, if the CDS has a tenor of 3 years, the protection seller 102 is obligated to pay the amount to the protection buyer 101 if the company 103 defaults at any time within those three years. Accordingly, a longer tenor typically commands a higher market value, because a longer tenor provides a longer duration of protection against default for the protection buyer 101.

An illustration of the market value of a CDS versus time for the company 103 is shown, for example, at FIG. 2. A curve, such as the one in FIG. 2, which shows market value versus time of a CDS, is referred to herein as a "CDS curve." As can be seen in FIG. 2, the market value of a CDS for the company 103 increases as the tenor increases.

Conventionally, CDS curves have been manually generated by traders involved in trading CDSs between parties, such as trading a CDS between the protection buyer 101 and the assignee 104. To continue with the example of FIG. 1, a trader who is actively involved in trading CDSs based upon the credit of the company 103 is aware of current market values of such CDSs. Assume that a trader just sold a CDS based upon the credit of the company 103 from the protection buyer 101 to the assignee 104 with a tenor of 1 year for \$10. In this case, the trader would record the 1 year CDS price for the company 103 as \$10, as shown, for example in FIG. 2. If the trader traded a 5-year CDS for \$60, but not a 3-year, the trader may estimate the cost of the 3-year as being between \$10 and \$60. Accordingly, traders use their knowledge of the marketplace to create CDS curves, such as that shown in FIG. 2. Therefore, the accuracy of the CDS curve is dependent upon such knowledge. If a company has not had many CDSs traded for it, little or no market information exists from which to generate a CDS curve.

Accurate CDS curves are important for protection sellers because they are used by protection sellers to determine their overall risk position. In other words, CDS curves assist protection sellers in evaluating how much risk they are exposed to at any given time. If a protection seller is involved in many high risk CDSs, i.e., ones where the protection seller is likely to make a payout, the protection seller may decide that it should only enter into low risk CDSs for the time being or take other actions to hedge the increased risk.

Therefore, a need exists in the art for improved methods for generating accurate CDS curves.

SUMMARY OF THE INVENTION

These problems are addressed and a technical solution achieved in the art by a system and a method for generating risk management curves. According to the present invention, when a new risk management curve is needed for a particular entity, a pre-existing risk management curve (referred to herein as a "leader curve") is selected, and the new risk management curve (referred to herein as a "follower curve" or a "target curve") is derived from the leader curve. The leader curve may be chosen because it pertains to a company that has characteristics similar to the company for which the target curve is to be derived. On the other hand, the leader curve may pertain to the same entity for which the target curve is generated, but may be for a different instrument.

According to one embodiment of the present invention, the target curve is derived by determining an offset from one or more points in the leader curve. According to another embodiment of the invention, the target curve is determined by adding to or subtracting from the leader curve a second risk management curve (referred to herein as an "offsetting curve"). The offsetting curve may be a pre-existing curve,

such as the U.S. Government curve, known in the art. Offsets from the leader curve may reflect known differences between the company to which the leader curve pertains and the company to which the target curve pertains.

According to a further embodiment of the present invention, the risk management curves are CDS curves. However, the risk management curves may relate to any of, without limitation, curves pertaining to portfolio credit derivatives, collateralized asset swaps, credit swap options, credit default swaps, credit downgrades, credit linked notes, asset backed securities, wrapped asset backed securities, collateralized notes, collateralized loans, super seniors, equity default swaps, equity stability swaps, equity bill swaps, and bonds. According to yet another embodiment of the invention, the target curve is updated over time to reflect changes in its associated leader curve and, if applicable, its associated offsetting curve.

BRIEF DESCRIPTION OF THE DRAWINGS

The present invention will be more readily understood from the detailed description of preferred embodiments presented below considered in conjunction with the attached drawings, of which:

FIG. 1 illustrates a Credit Default Swap ("CDS");

FIG. 2 illustrates an example of a CDS curve;

FIG. 3 illustrates a computer hardware arrangement, according to an embodiment of the present invention;

FIG. 4 illustrates a process flow, according to an embodiment of the present invention;

FIGS. 5-8 illustrate a "P" follower slope type, according to an embodiment of the present invention;

FIGS. 9-12 illustrate an "F" follower slope type, according to an embodiment of the present invention;

FIGS. **13-16** illustrate an "L" follower slope type, according to an embodiment of the present invention;

FIG. 17 illustrates a "T" follower slope type, according to an embodiment of the present invention; and

FIG. **18** illustrates a "C" follower slope type, according to an embodiment of the present invention.

It is to be understood that these drawings are for purposes of illustrating the concepts of the invention and are not to scale.

DETAILED DESCRIPTION OF THE INVENTION

The present invention allows accurate risk management curves to be generated for companies for which limited market information is available to generate a reasonably accurate risk management curve purely on the market information. 50 The present invention achieves this result by allowing a preexisting risk management curve (referred to herein as a "leader curve") to be selected as a basis for generating a new risk management curve (referred to herein as a "target curve"). The leader curve may be a credit risk curve and 55 advantageously pertains to a company (referred to herein as the "leader company") that has similar characteristics to the company for which the target curve is being generated (referred to herein as the "target company"). Further, any known differences between the leader company and the target company may be reflected in the target curve by incorporating any number of offsets between the leader curve and the target curve. Optionally, the leader company and the target company may be the same company. In this case, the leader curve may be a more liquid curve for the company than the target 65 curve. Further, the leader curve and the target curve may be for different instruments associated with the same company.

4

Turning now to FIG. 3, a computer system that may be used to execute processes according to an embodiment of the invention is illustrated. A user 301, who may be a Credit Default Swap ("CDS") trader, uses computer 302 to retrieve an existing CDS curve from a data storage system 303 and/or generate a new CDS curve that may be subsequently stored in the data storage system 303. For example, a trader may be interested in determining the market value for a CDS pertaining to a particular company, "Company X". The trader, in this example, user 301, may attempt to retrieve an existing CDS curve for Company X. However, if no such curve exists, the user 301 may instruct the computer 302 to generate a CDS curve for Company X according to the processes disclosed herein. The retrieved or generated CDS curves is then used by the user 301 to evaluate whether or not to make a trade and/or may be used by an organization to determine an overall risk position of the organization.

The term "computer" is intended to refer to a desktop computer, a laptop computer, a hand-held computer, a personal digital assistant ("PDA"), or any data processing device, whether implemented with electronics, optics, both, or otherwise. Although FIG. 3 shows a single computer, one skilled in the art will appreciate that multiple computers communicatively connected may be used. The term "communicatively connected" is intended to refer to any connection between devices through which data may be communicated, whether wired, wireless, or both. The term communicatively connected is also intended to refer to communication within a single device or computer and communication between devices and/or computers.

The term "data storage system" is intended to refer to any computer-accessible data storage device or devices, whether volatile or nonvolatile. Although only one object is shown for data storage system 303 in FIG. 3, one skilled in the art will appreciate that the data storage system 303 may include a plurality of devices communicatively connected to the computer 302. Further, although shown separate from the computer 302, the data storage system 303 may be partially or completely located within the computer 302.

A process flow according to an embodiment of the present invention will now be described with reference to FIG. 4. One skilled in the art will appreciate that the invention is not limited to the particular ordering of steps shown in FIG. 4. At step 401, it is determined whether a CDS curve exists for the 45 company requested by user 301, which may be, for example, Company X. If a CDS curve does exist for Company X, then it is presented to the user 301 at step 402. If a CDS curve does not exist for Company X, a new CDS curve ("target curve") may be generated for Company X. The process of generating a new CDS curve begins at step 403, where the user 301 may input a name for the target curve. Alternatively, a name may be generated by the computer 302, which may then be modified by the user 301. At step 404, the user 301 may select a pre-existing CDS curve ("leader curve") from the data storage system 303 from which the target curve is to be derived.

Optionally, the leader curve is a CDS curve for a company having similar characteristics as the company for which the target curve is to be generated, in this example, Company X. For instance, if the user 301 is attempting to determine the market value for CDSs based upon the credit strength of Company X, but little market data exists, the user 301 may select a pre-existing CDS curve for a parent company of Company X, or a company in the same industry as Company X having a similar financial status. However, the user 301 may be aware of circumstances that distinguish Company X from the leader company. For instance, although Company X and the leader company have similar credit characteristics,

the user 301 may know that Company X has more short term risk of default than the leader company and, consequently, will want to adjust the target curve to reflect the higher short term risk.

Depending upon how the user 301 wants to adjust the 5 leader curve to arrive at the target curve, the user 301 may select one of several types of target curve generation techniques at step 405. These techniques are described in more detail with reference to the remaining figures. Once a technique is chosen at step 405, the user 301 may input parameters 10 that adjust the technique selected at step 405. Such parameters are also described in more detail below with reference to the remaining figures

At step 407, the target curve is generated based at least upon the leader curve, the target curve generation technique, 15 and the parameters inputted at step 406. The generated target curve is presented to the user 301 at step 408 and may be saved to the data storage system 303 for future use.

Several target curve generation techniques and associated parameters from steps 405 and 406 according to embodiments of the invention, will now be described. In FIG. 5, a row shown at 501 provides information regarding a target curve 509 (also referred to as a "follower curve"). A row shown at 502 provides information regarding the leader curve 510 selected at step 404. A name shown at 503 indicates the name 25 of the target curve that was inputted and/or generated at step 403. "Offset Type" shown at 504 and "Follower Slope" shown at 505 are parameters used to identify a target curve generation technique selected at step 405. "Lead Spread Offset" shown at 506 is a parameter (e.g., an amount) used to determine how much to modify the leader curve 510 to arrive at the target curve 509. A graph 508 shows the leader curve 510 and the target curve 509 in relation to each other.

Offset types include "S" for Spread and "F" for Factorial. A spread offset type specifies that the lead spread offset 35 amount **506** is to be added to the leader curve **510** at relevant points. A factorial offset type specifies that the leader curve **510** is multiplied by the lead spread offset amount **506** at relevant points to generate the target curve **509**. In an embodiment of the present invention, the relevant points are the 1 40 year, 3 year, 5 year, 7 year, 10 year, and 30 year tenor points. However, one skilled in the art will appreciate that any point may be used.

The follower slope types include "P," "F," "L," "T," and "C." The follower slope type of "P" will be described with 45 reference to FIGS. 5-8. The follower slope type of "F" will be described with reference to FIGS. 9-12. The follower slope type of "L" will be described with reference to FIGS. 13-16. The follower slope type of "T" will be described with reference to FIG. 17. The follower slope type of "C" will be 50 described with reference to FIG. 18.

Returning to FIG. **5**, the follower slope type of "P," as shown at **505**, with a spread offset, as shown at **504**, will be described. In this situation, each point in the leader curve **510** is offset by the lead spread offset amount **506**. In the example of FIG. **5**, each point in the leader curve **510** is increased by the lead spread offset amount **506** of 10.0. The points of the generated follower curve **501** are shown in the graph **508** as the curve **509**. FIG. **6**, which continues with the example of FIG. **5**, illustrates that if a leader curve **610** is adjusted, for example, by decreasing the **30** year point **611** by five, i.e., 77–5=72, a follower curve **609** is adjusted in the same amount to maintain the lead spread offset amount **606** between the leader curve **610** and follower curve **609**.

FIG. 7 illustrates an example of a follower slope type of 65 "P," as shown at 705, with a factorial offset type, as shown at 704. With this target curve generation technique, each point

6

of a leader curve **710** is multiplied by the lead spread offset amount **706** to arrive at a target curve **709**. FIG. **8**, which continues with the example of FIG. **7**, illustrates that as a leader curve **810** changes, for example, by decreasing the 30-year point **811** by five, i.e., 77-5=72, the follower curve **809** is updated by multiplying the modified points in the leader curve **810** by the lead spread offset amount **806**.

FIG. 9 illustrates an example of a follower slope type of "F," as shown at 905, with a spread offset type, as shown at 904. With this target curve generation technique, less than all points in a leader curve 910 are offset by the lead spread offset amount 906 to obtain a target curve 909. For all other points, no relationship between the leader curve 910 and the target curve 909 exists, and, consequently, the other points in the target curve 910 may acquire any value. In the example of FIG. 9, only the 5-year point 912 is selected to maintain the lead spread offset amount 906 of 10.0 between the leader curve 910 and the target curve 909. All other points in the target curve 909 may have any value, which may be manually specified by the user 301. The 5-year point 912 may be selected to have the forced offset relationship with the target curve 909 because it is often the most liquid point in the curve. In other words, the 5-year point is often the most traded tenor for a CDS, and consequently is advantageously imported into the target curve 909. If any of the selected points in the leader curve 910 change, the corresponding points in the target curve 909 are adjusted to maintain the lead spread offset amount 906. However, as shown in FIG. 10, if other points change, such as the 30-year point 1011, a corresponding point in a target curve 1009 does not change.

FIG. 11 illustrates an example of a follower slope type of "F," as shown at 1105, with a factorial offset type, as shown at 1104. With this target curve generation technique, less than all points in the leader curve 1110 are multiplied by the lead spread offset amount 1106 to obtain a target curve 1109. For all other points, no relationship between the leader curve 1110 and the target curve 1109 exists, and, consequently, the other points in the target curve 1109 may acquire any value. In the example of FIG. 11, only the 5-year point 1112 is selected to have a forced relationship between the leader curve 1110 and the target curve 1109. As shown in FIG. 12, all other non-selected points have no forced relationship, and if a leader curve 1210 changes at one of the non-relationship points, such as the 30-year point 1211 in this example, a corresponding target curve 1209 does not change.

FIG. 13 illustrates an example of a follower slope type of "L," as shown at 1305, with a spread offset type, as shown at 1304. With this target curve generation technique, a selected point in a leader curve 1310 is offset by the lead spread offset amount 1306 to arrive at a target curve 1309. The ratio between the leader curve 1310 and the target curve 1309 at the selected point is enforced for all other points. In the example of FIG. 13, the selected point is the 5-year point 1312, so the 5-year point in the target curve 1309 equals the 5-year point of the leader curve 1310 plus the lead spread offset amount 1306. The ratio between the leader curve 1310 and the target curve 1309 at the 5-year point, in this example, is 6/7. This ratio is maintained at all other points. As shown at the 30-year point 1411 in FIG. 14, which continues with the example of FIG. 13, the ratio is maintained even if the leader curve 1410 is changed.

FIG. 15 illustrates an example of a follower slope type of "L," as shown at 1505, with a factorial offset type, as shown at 1504. With this target curve generation technique, a selected point in a leader curve 1510 is multiplied by the lead spread offset amount 1506 to arrive at a target curve 1509. The ratio between the leader curve 1510 and the target curve 1509

at the selected point is enforced for all other points. In the example of FIG. 15, the selected point is the 5-year point 1512, so the 5-year point in the target curve 1509 equals the 5-year point of the leader curve 1510 multiplied by the lead spread offset amount 1506. The ratio between the leader 5 curve 1510 and the target curve 1509 at the 5-year point is 60/72. This ratio is maintained at all other points. As shown at the 30-year point 1611 in FIG. 16, even if a leader curve 1610 is changed, a ratio between the leader curve 1610 and a corresponding target curve 1609 is maintained.

FIG. 17 illustrates an example of a follower slope type of "T," as shown at 1705. For this follower slope type, a lead spread offset may be specified for each of a plurality of points, as shown at 1713. If the offset type 1704 is spread, then each point of the leader curve is offset by the lead spread offset 15 amount for the corresponding point to arrive at a target curve. For example, the 1-year, 3-year, 5-year, 7-year, and 10-year points of a leader curve are specified at 1714. Lead spread offsets for each of these points are specified at 1715. Points of a target curve generated by these lead spread offsets 1715 are 20 shown at 1716. The 1-year point at 1716 is generated by adding the 1-year lead spread offset amount at 1715 to the 1-year point in the leader curve at 1714. That is, 29.79+ 10.0=39.79. The same procedure is repeated for each of the other points in the leader curve described at 1714. A similar 25 claims and their equivalents. procedure is followed when an offset type 1704 is factorial (not shown). In this case, each point of the leader curve is multiplied by the lead spread offset amount for the corresponding point to arrive at a target curve.

If the leader curve 1714 is changed, the relationship 30 between each modified point of the leader curve and the target curve, as specified by the associated lead spread offset 1713 and the offset type 1704, is enforced. Optionally, the market value of the target curve is generated so as not to fall below a predetermined value, or floor. For example, if an offset is 35 specified that would generate a negative market value in the target curve, a market value of \$0 may be specified for such a

The follower slope type of "T" allows the user 301 great flexibility as to how the leader curve should be modified to 40 generate the target curve. For instance, this follower slope type allows a trader to mark offsets differently at different maturities. Because different transactions involve different contract terms, some of which apply more to the long end or short end of the curve, this follower slope type allows for 45 added flexibility in controlling how the impact of these maturity sensitive terms are incorporated into the follower curve. Further, this follower slope type allows the user 301 to flexibly incorporate specific knowledge about differences between the company associated with the leader curve and the 50 company associated with the target curve into the target curve generation process.

FIG. 18 illustrates an example of a follower slope type of "C". For this follower slope type, the user 301 selects or defines an offsetting curve 1822 that is subtracted from a 55 leader curve 1820 to arrive at a target curve 1821. One skilled in the art will appreciate, however, that the offsetting curve may be added to the leader curve 1820, or combined with the leader curve 1820 in another fashion to arrive at the target curve 1821. An example of the offsetting curve 1822 is the 60 U.S. Government curve known in the art. If the leader curve 1820 and/or the offsetting curve 1822 change, the target curve **1821** may be automatically updated to reflect the change. Optionally, the market value of the target curve is generated so as not to fall below a predetermined value, or floor.

In contrast to the follower slope type of "T" shown, for example, in FIG. 17, the "C" follower slope type allows the

use of an offsetting curve 1822 that may include many more specified points than those manually specified by the "T" follower slope type. Further, an actual pre-existing curve may be used as the offsetting curve 1822, instead of manually specifying points, as shown in the "T" follower slope type. Additionally, if the offsetting curve 1822 is a pre-existing curve that is changed, the target curve 1821 may be updated automatically to reflect such change.

It is to be understood that the exemplary embodiments are 10 merely illustrative of the present invention and that many variations of the above-described embodiments can be devised by one skilled in the art without departing from the scope of the invention. For instance, although embodiments of the invention are described in the context of CDS curves, one skilled in the art will appreciate that the curve generation methodology described herein may be applied to other types of curves including, without limitation, curves pertaining to portfolio credit derivatives, collateralized asset swaps, credit swap options, credit default swaps, credit downgrades, credit linked notes, asset backed securities, wrapped asset backed securities, collateralized notes, collateralized loans, super seniors, equity default swaps, equity stability swaps, equity bill swaps, and bonds. It is therefore intended that any and all such variations be included within the scope of the following

What is claimed is:

- 1. A method for generating a target financial risk management curve, using a computer, the method comprising the steps of:
 - selecting a pre-existing financial risk management curve as a leader curve of a first company using the computer, the leader curve including a plurality of points;
 - selecting at least one technique using at least a parameter required for generating the target financial risk management curve using the computer;
 - specifying an offset based on said selected technique for each of the plurality of points in the leader curve independently of other points of the plurality of points in the leader curve using the computer, said offset quantifying differences between the leader curve and the target financial risk management curve, wherein said target financial risk management curve includes a plurality of points offset from the leader curve by the offsets specified for the plurality of points in the leader curve; and
 - modifying said leader curve to generate the target financial risk management curve for a second company using the computer;
 - wherein said second company has insufficient market information available to generate a target financial risk management curve based on said second company's market information, and said second company has similar characteristics to said first company.
- 2. The method of claim 1, further comprising the step of updating the target financial risk management curve to reflect a change in the leader curve.
- 3. The method of claim 1, further comprising the step of storing the target financial risk management curve in a data storage system.
- 4. The method of claim 3, wherein the leader curve is selected from the data storage system.
- 5. The method of claim 1, wherein the offsets quantify known differences between the leader company and the target company.
- 6. The method of claim 1, wherein the leader curve is associated with a first financial instrument and the target

financial risk management curve is associated with a second financial instrument that is different from the first financial instrument

- 7. The method of claim 1, wherein the target financial risk management curve is a Credit Default Swap ("CDS") curve, a dimension of the target financial risk management curve specifies a market value of a CDS, and a dimension of the target financial risk management curve specifies a tenor.
- 8. The method of claim 1, wherein the target financial risk management curve is a portfolio credit derivatives curve, a collateralized asset swap curve, a credit swap option curve, a credit default swap curve, a credit downgrade curve, a credit linked notes curve, an asset backed securities curve, a wrapped asset backed securities curve, a collateralized notes curve, a collateralized loans curve, a super senior curve, an equity default swap curve, an equity stability swap curve, an equity bill swap curve, or a bond curve.
- **9.** The method of claim **1**, wherein a dimension of the target financial risk management curve specifies a market value, and the market value does not fall below a predetermined value.
- 10. A method for generating a target financial risk management curve using a computer, the method comprising the steps of:

selecting a pre-existing financial risk management curve as 25 a leader curve for a first company using the computer;

selecting based on at least one parameter an offsetting financial risk management curve using the computer, wherein said offsetting financial risk management curve specifies an offset quantifying differences between the leader curve and the target financial risk management curve; and

generating a target financial risk management curve for a second company by modifying the leader curve based upon the offsetting financial risk management curve using the computer, wherein said second company has insufficient market information available to generate a target financial risk management curve based on said 10

second company's market information, and said second company has similar characteristics to said first company.

- 11. The method of claim 10, wherein the step of generating the target financial risk management curve adds or subtracts the offsetting financial risk management curve to/from the leader curve.
- 12. The method of claim 10, further comprising the step of updating the target financial risk management curve to reflect a change in the leader curve.
- 13. The method of claim 10, further comprising the step of updating the target financial risk management curve to reflect a change in the offsetting curve.
- 14. The method of claim 10, further comprising the step of storing the target financial risk management curve in a data storage system.
- 15. The method of claim 14, wherein at least one of the leader curve and the offsetting curve is selected from the data storage system.
- 16. The method of claim 10, wherein the target financial risk management curve is a Credit Default Swap ("CDS") curve, a dimension of the target financial risk management curve specifies a market value of a CDS, and a dimension of the target financial risk management curve specifies a tenor.
- 17. The method of claim 10, wherein the target financial risk management curve is a portfolio credit derivatives curve, a collateralized asset swap curve, a credit swap option curve, a credit default swap curve, a credit downgrade curve, a credit linked notes curve, an asset backed securities curve, a wrapped asset backed securities curve, a collateralized notes curve, a collateralized loans curve, a super senior curve, an equity default swap curve, an equity stability swap curve, an equity bill swap curve, or a bond curve.
- 18. The method of claim 10, wherein a dimension of the target financial risk management curve specifies a market value, and the market value does not fall below a predetermined value.

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