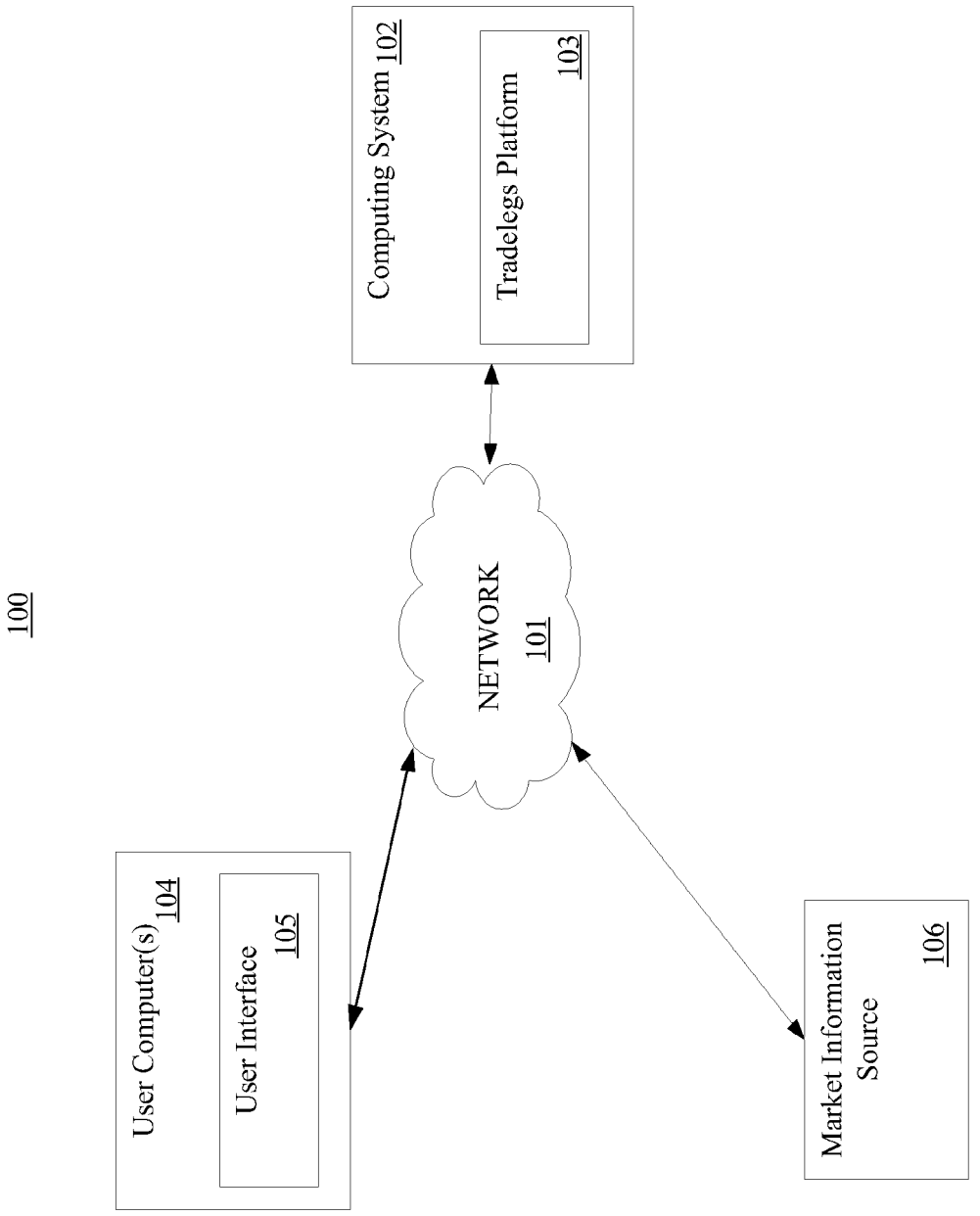

100
Computing System 102
Tradelegs Platform
103
NETWORK
101
User Computer(s) 104
User Interface
105
Market Information Source
106

FIG. 1

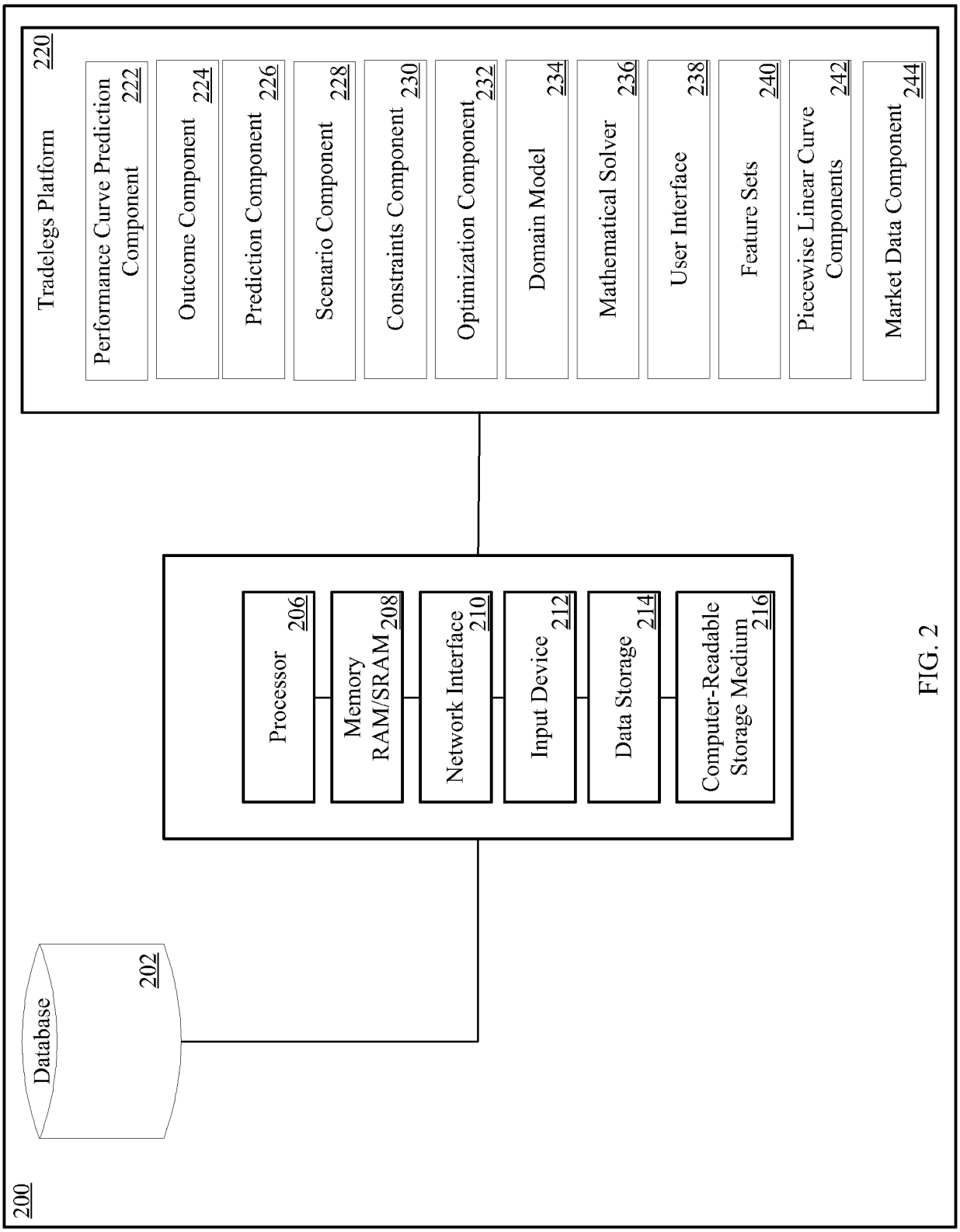

200
Database
202
Processor 206
Memory RAM/SRAM 208
Network Interface 210
Input Device 212
Data Storage 214
Computer-Readable Storage Medium 216
Tradelegs Platform 220
Performance Curve Prediction Component 222
Outcome Component 224
Prediction Component 226
Scenario Component 228
Constraints Component 230
Optimization Component 232
Domain Model 234
Mathematical Solver 236
User Interface 238
Feature Sets 240
Piecewise Linear Curve Components 242
Market Data Component 244

FIG. 2

FIG. 3

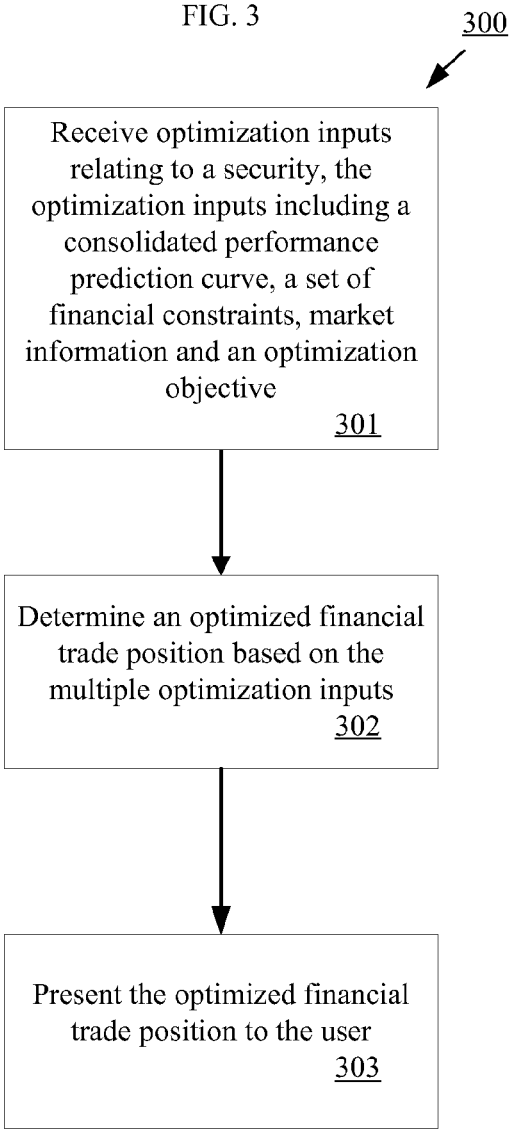
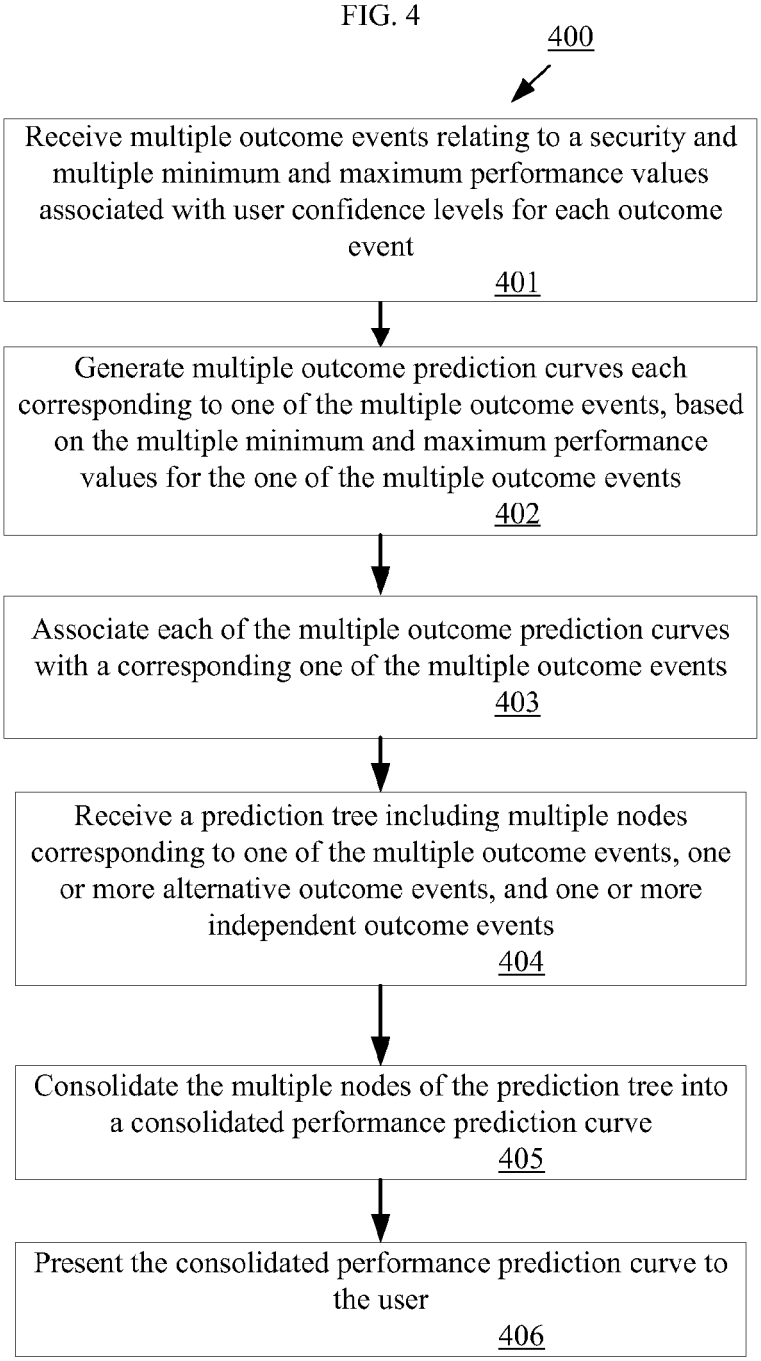

300
Receive optimization inputs relating to a security, the optimization inputs including a consolidated performance prediction curve, a set of financial constraints, market information and an optimization objective
301
Determine an optimized financial trade position based on the multiple optimization inputs
302
Present the optimized financial trade position to the user
303

FIG. 4


400
Receive multiple outcome events relating to a security and multiple minimum and maximum performance values associated with user confidence levels for each outcome event
401
Generate multiple outcome prediction curves each corresponding to one of the multiple outcome events, based on the multiple minimum and maximum performance values for the one of the multiple outcome events
402
Associate each of the multiple outcome prediction curves with a corresponding one of the multiple outcome events
403
Receive a prediction tree including multiple nodes corresponding to one of the multiple outcome events, one or more alternative outcome events, and one or more independent outcome events
404
Consolidate the multiple nodes of the prediction tree into a consolidated performance prediction curve
405
Present the consolidated performance prediction curve to the user
406

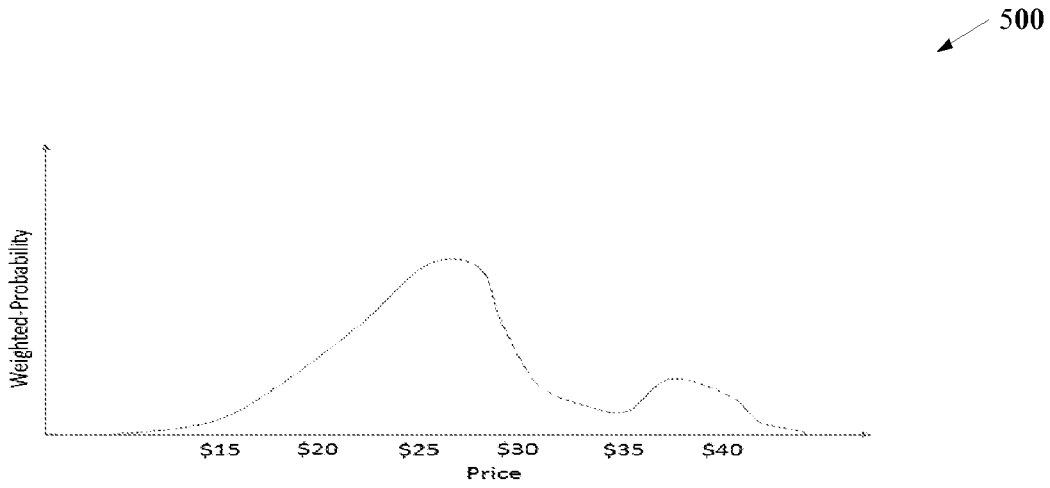


FIG. 5

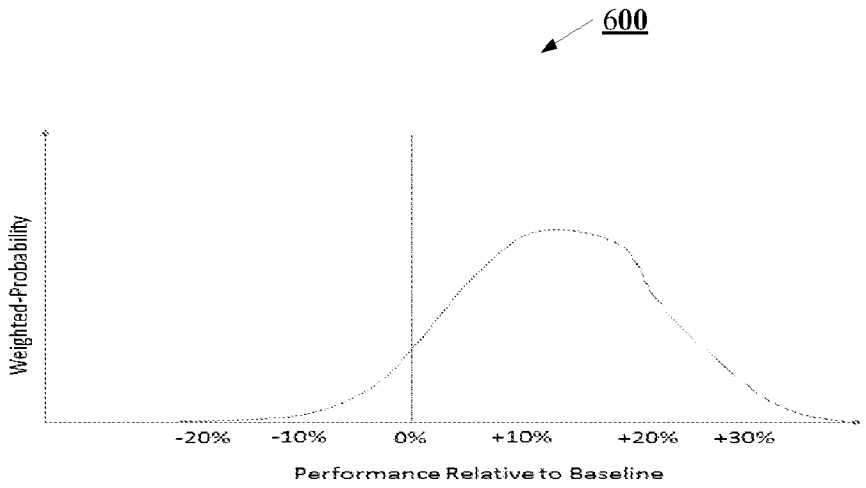

600
Weighted-Probability
-20%
-10%
0%
+10%
+20%
+30%
Performance Relative to Baseline

FIG. 6

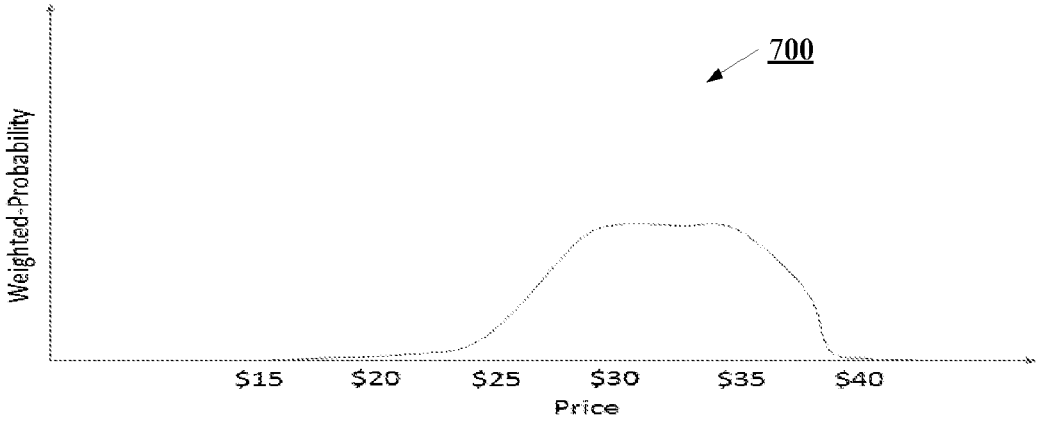


FIG. 7

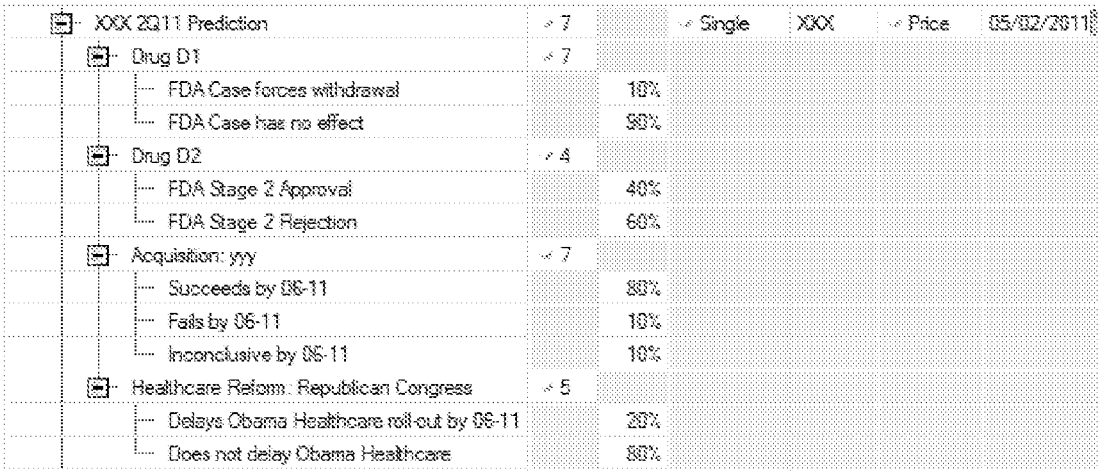
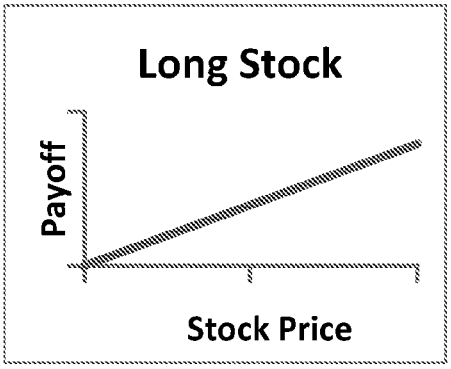
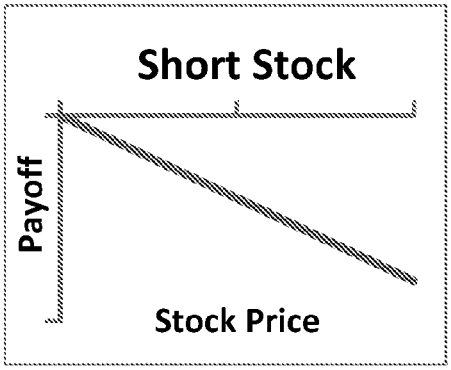

XXX 2Q11 Prediction
7
Single
XXX
Price
05/02/2011
Drug D1
7
FDA Case forces withdrawal
10%
FDA Case has no effect
90%
Drug D2
4
FDA Stage 2 Approval
40%
FDA Stage 2 Rejection
60%
Acquisition: yyy
7
Succeeds by 06-11
80%
Fails by 06-11
10%
Inconclusive by 06-11
10%
Healthcare Reform: Republican Congress
5
Delays Obama Healthcare roll-out by 06-11
20%
Does not delay Obama Healthcare
80%

FIG. 8

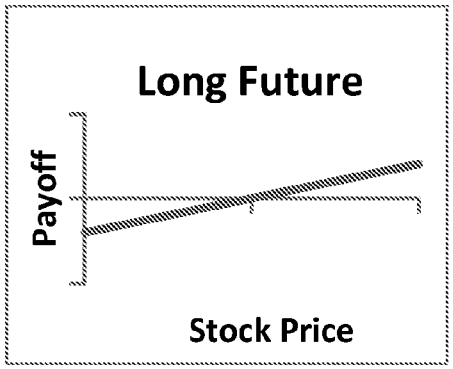
Scenario Tree	Wt.	Prb.	Securities	Symbol	Type	Target Date
Pharma 2Q11 Scenario						
XXX 2Q11 Prediction	7		Single	XXX	Price	05/02/2011
Drug D1	7					
FDA Case forces withdrawal		10%				
FDA Case has no effect		90%				
Drug D2	4					
FDA Stage 2 Approval		40%				
FDA Stage 2 Rejection		60%				
Acquisition: yyy	7					
Succeeds by 06-11		80%				
Fails by 06-11		10%				
Inconclusive by 06-11		10%				
Healthcare Reform: Republican Congress	5					
Delays Obama Healthcare roll-out by 06-11		20%				
Does not delay Obama Healthcare		80%				
WWW 2Q11 Prediction	3		Single	WWW	Price	05/01/2011
Drug: Cancer Wonderdrug	10					
FDA Approval		20%				
WWW announces an exit strategy		90%				
WWW announces intent to sell Wonderdrug directly		10%				
FDA Denial		80%				
2Q11 Earnings	5					
Exceed expectations by 10% or more		30%				
Miss expectations by 10% or more		10%				
Match expectations		60%				

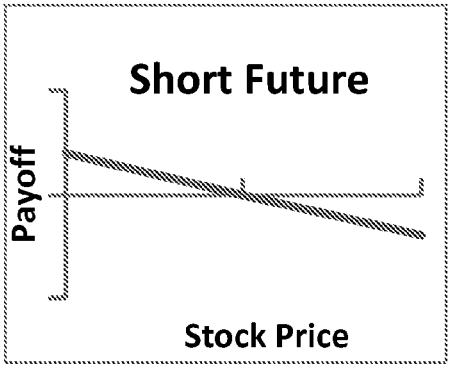
FIG. 9





1002





1004

FIG. 10

1100

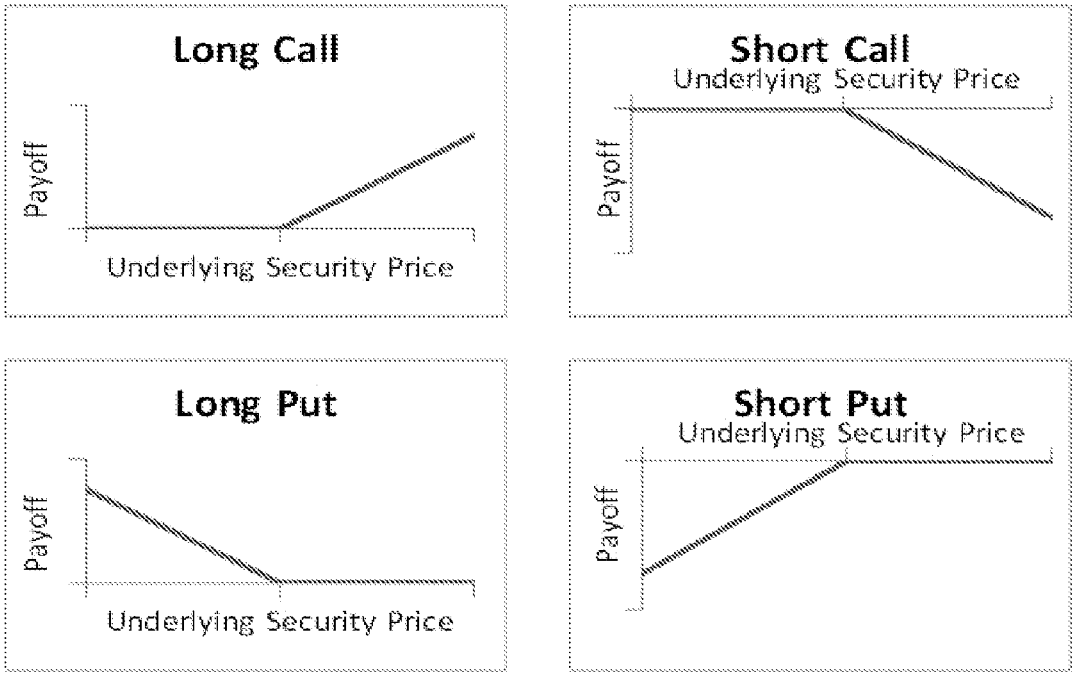

Long Call
Payoff
Underlying Security Price
Short Call
Underlying Security Price
Payoff
Long Put
Payoff
Underlying Security Price
Short Put
Underlying Security Price
Payoff

FIG. 11

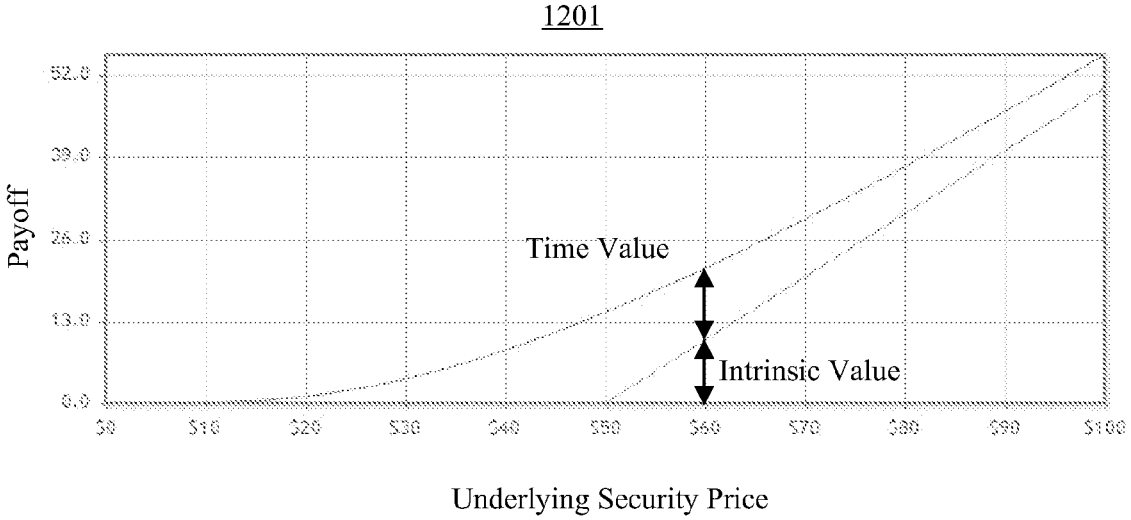
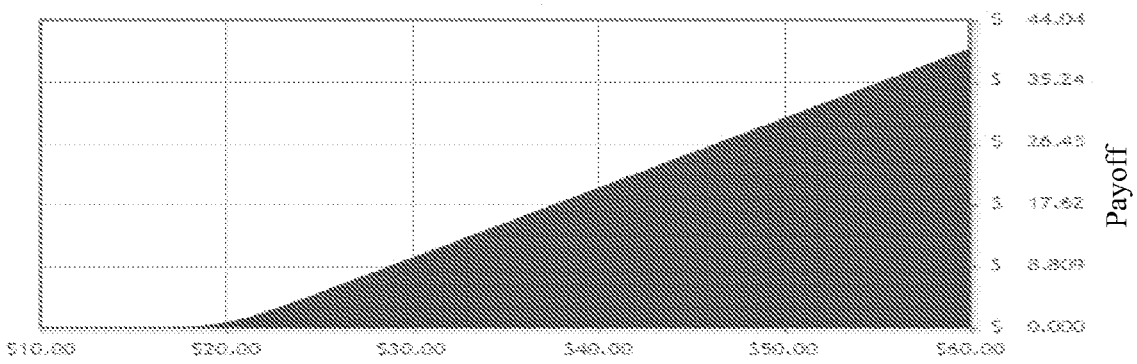

1201
52.0
39.0
26.0
13.0
0.0
Payoff
Time Value
Intrinsic Value
$0
$10
$20
$30
$40
$50
$60
$70
$80
$90
$100
Underlying Security Price

FIG. 12

Payoff Curve

1301



Underlying Security Price

FIG. 13

Consolidated Performance Prediction Curve

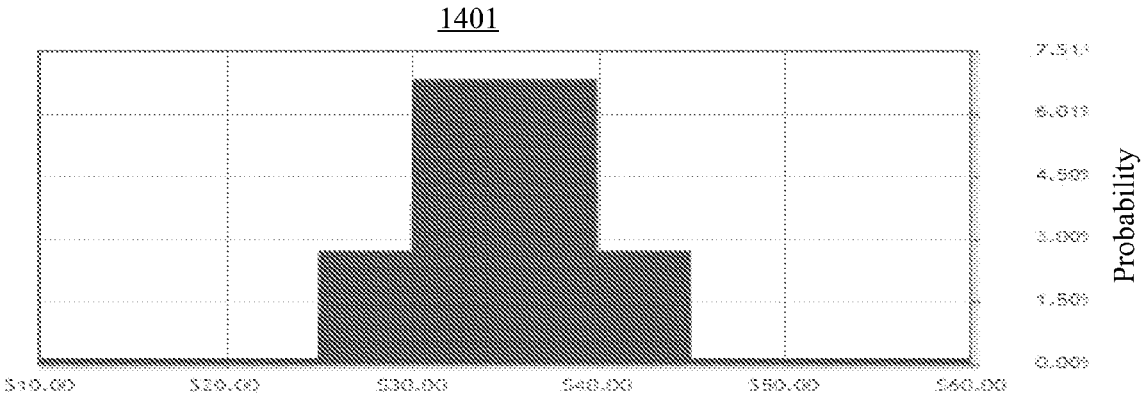


FIG. 14

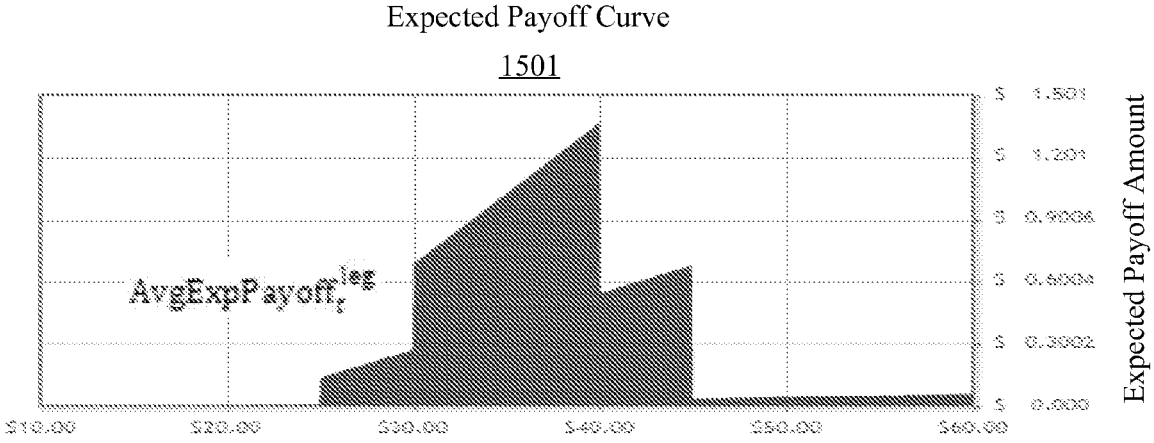

Expected Payoff Curve
1501
$AvgExpPayoff_x^{leg}$
$10.00
$20.00
$30.00
$40.00
$50.00
$60.00
$ 1.80
$ 1.20
$ 0.90
$ 0.60
$ 0.30
$ 0.00
Expected Payoff Amount
Underlying Security Price

FIG. 15

1601

Wt.	Prb.	Scenario Tree	Wt.	Prb.	Securities	Symbol	Type	Target Dat
		Pharma 2Q11 Scenario						
◉	○	XXX 2Q11 Prediction	7		Single	XXX	Price	05/02/2011
○	◉	Drug D1	7					
		FDA Case forces withdrawal		10%				
		FDA Case has no effect		90%				
○	◉	Drug D2	4					
		FDA Stage 2 Approval		40%				
		FDA Stage 2 Rejection		60%				
○	◉	Acquisition: yyy	7					
		Succeeds by 06-11		80%				
		Fails by 06-11		10%				
		Inconclusive by 06-11		10%				
○	◉	Healthcare Reform: Republican Congress	5					
		Delays Obama Healthcare roll-out by 06-11		20%				
		Does not delay Obama Healthcare		80%				
◉	○	WWW 2Q11 Prediction	3		Single	WWW	Price	06/01/2011
○	◉	Drug: Cancer Wonderdrug	10					
○	◉	FDA Approval		20%				
		WWW announces an exit strategy		90%				
		WWW announces intent to sell Wonde		10%				
		FDA Denial		80%				
○	◉	2Q11 Earnings	5					
		Exceed expectations by 10% or more		30%				
		Miss expectations by 10% or more		10%				
		Match expectations		60%				

FIG. 16

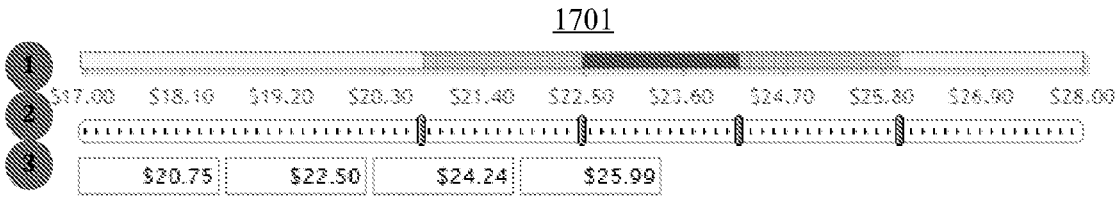

1701
$17.00
$18.10
$19.20
$20.30
$21.40
$22.50
$23.60
$24.70
$25.80
$26.90
$28.00
$20.75
$22.50
$24.24
$25.99

FIG. 17

1801

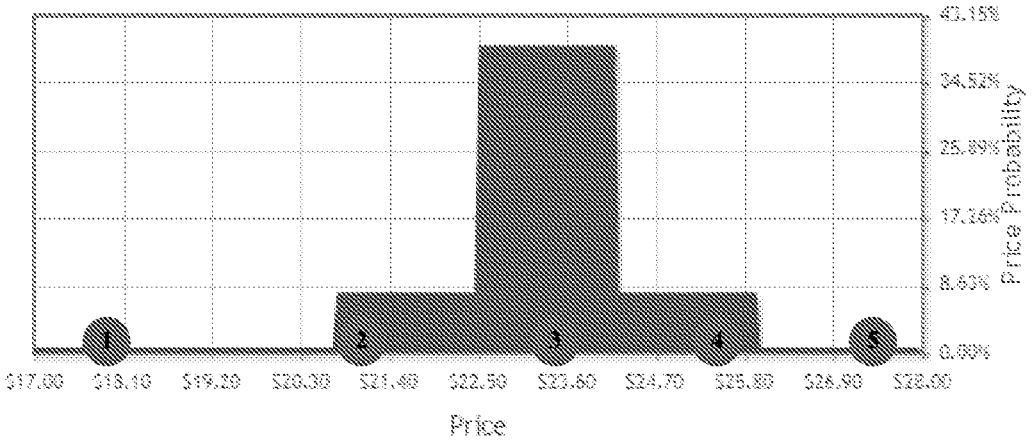

42.15%
34.52%
25.89%
17.26%
8.63%
0.00%
Price Probability
1
2
3
4
5
$17.00
$18.10
$19.20
$20.30
$21.40
$22.50
$23.60
$24.70
$25.80
$26.90
$28.00
Price

FIG. 18

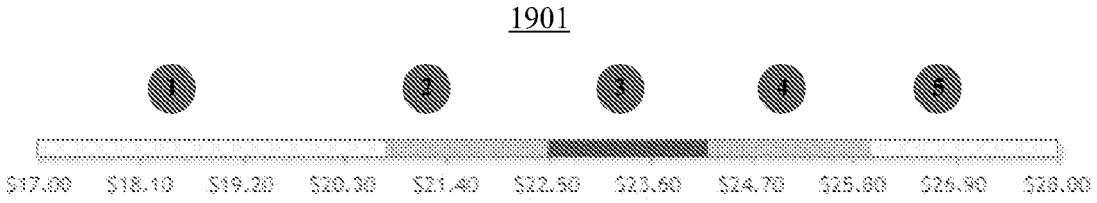

1901
1
2
3
4
5
$17.00
$18.10
$19.20
$20.30
$21.40
$22.50
$23.60
$24.70
$25.80
$26.90
$28.00

FIG. 19

2001

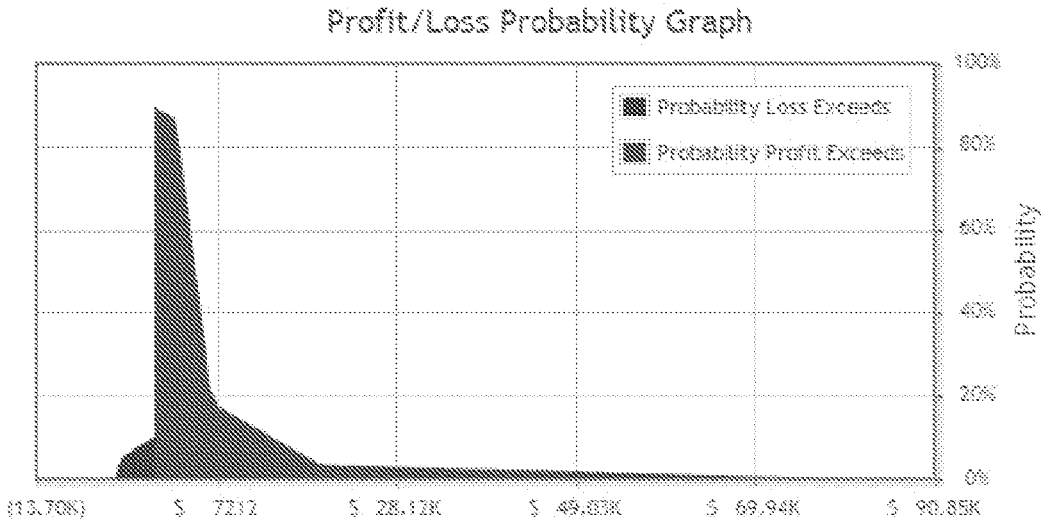

Profit/Loss Probability Graph
Probability Loss Exceeds
Probability Profit Exceeds
100%
80%
60%
40%
20%
0%
Probability
($13,708)
$ 7212
$ 28,172K
$ 49,683K
$ 69,94K
$ 90,85K

FIG. 20

2101

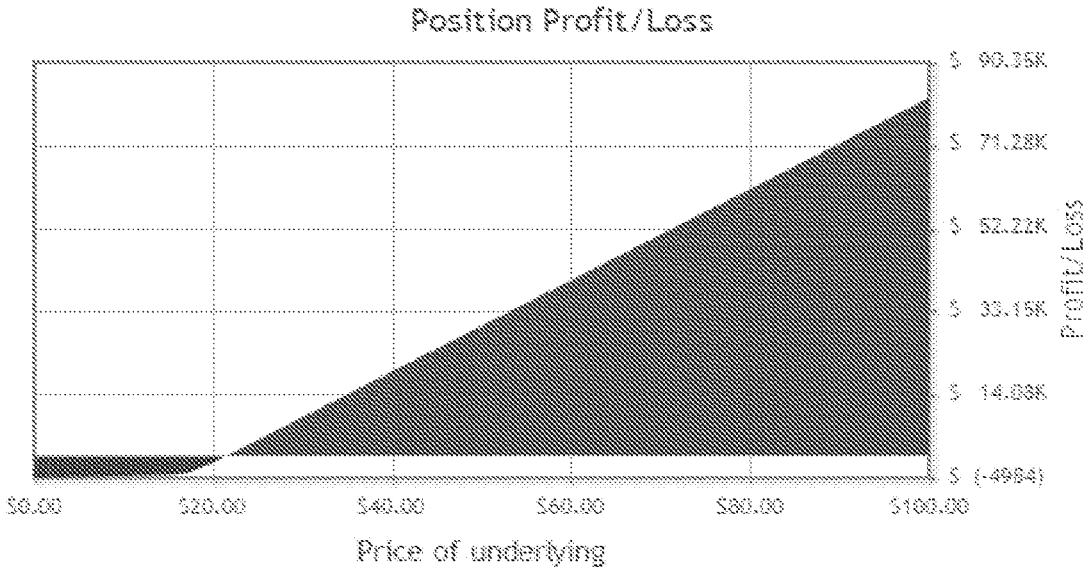

Position Profit/Loss
$ 90.35K
$ 71.22K
$ 52.22K
$ 33.15K
$ 14.08K
$ (4984)
Profit/Loss
$0.00
$20.00
$40.00
$60.00
$80.00
$100.00
Price of underlying

FIG. 21

2201


Profit Expectation
$ 1271
$ 1006
$ 741.3
$ 476.3
$ 211.3
$ (-53.62)
Expectation
$0.00
$20.00
$40.00
$60.00
$80.00
$100.00
Price of underlying

FIG. 22