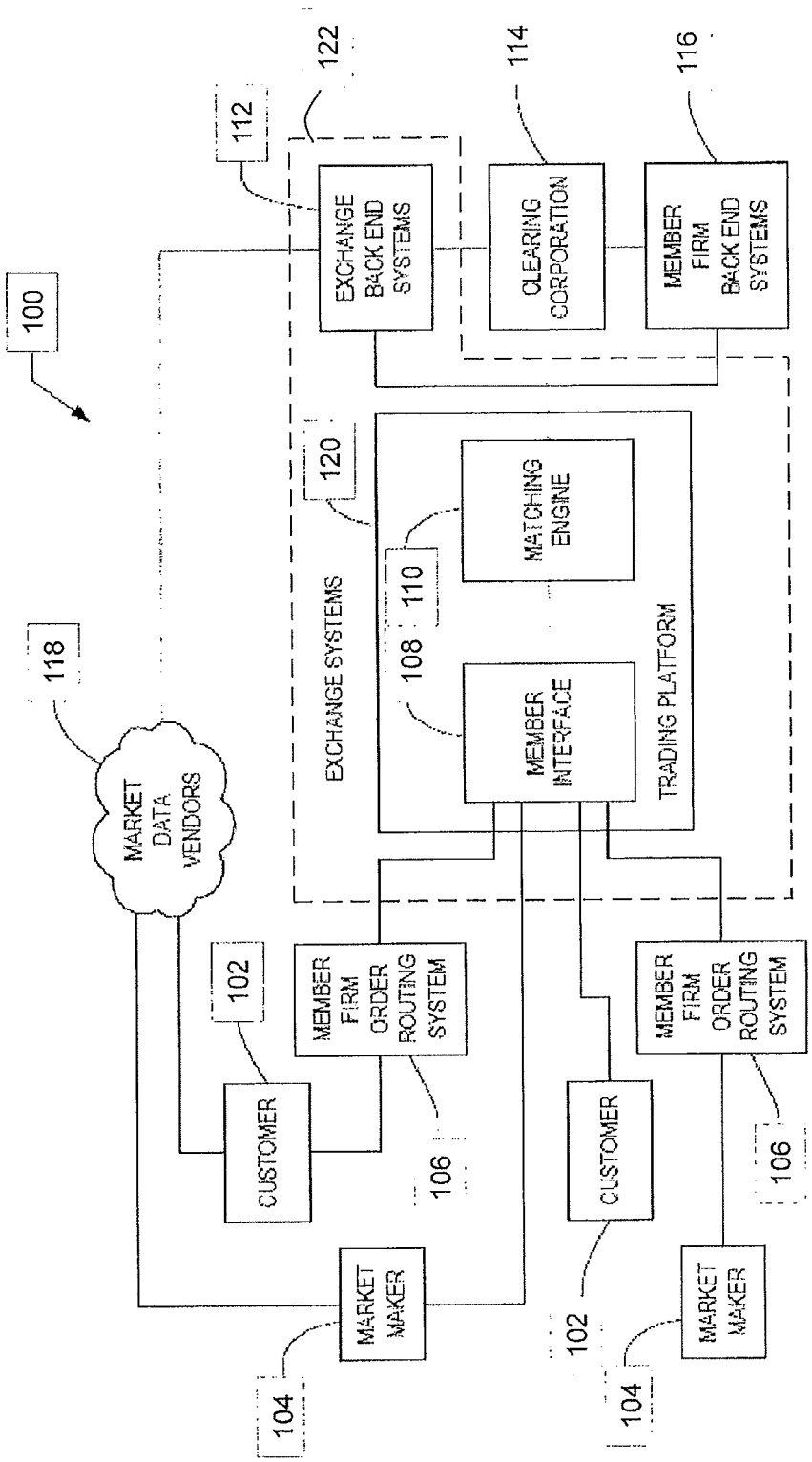

100
112
122
EXCHANGE BACK END SYSTEMS
114
CLEARING CORPORATION
116
MEMBER FIRM BACK END SYSTEMS
120
EXCHANGE SYSTEMS
MATCHING ENGINE
110
108
MEMBER INTERFACE
TRADING PLATFORM
118
MARKET DATA VENDORS
102
MEMBER FIRM ORDER ROUTING SYSTEM
CUSTOMER
106
MARKET MAKER
104
MEMBER FIRM ORDER ROUTING SYSTEM
CUSTOMER
106
102
MARKET MAKER
104

FIG. 1

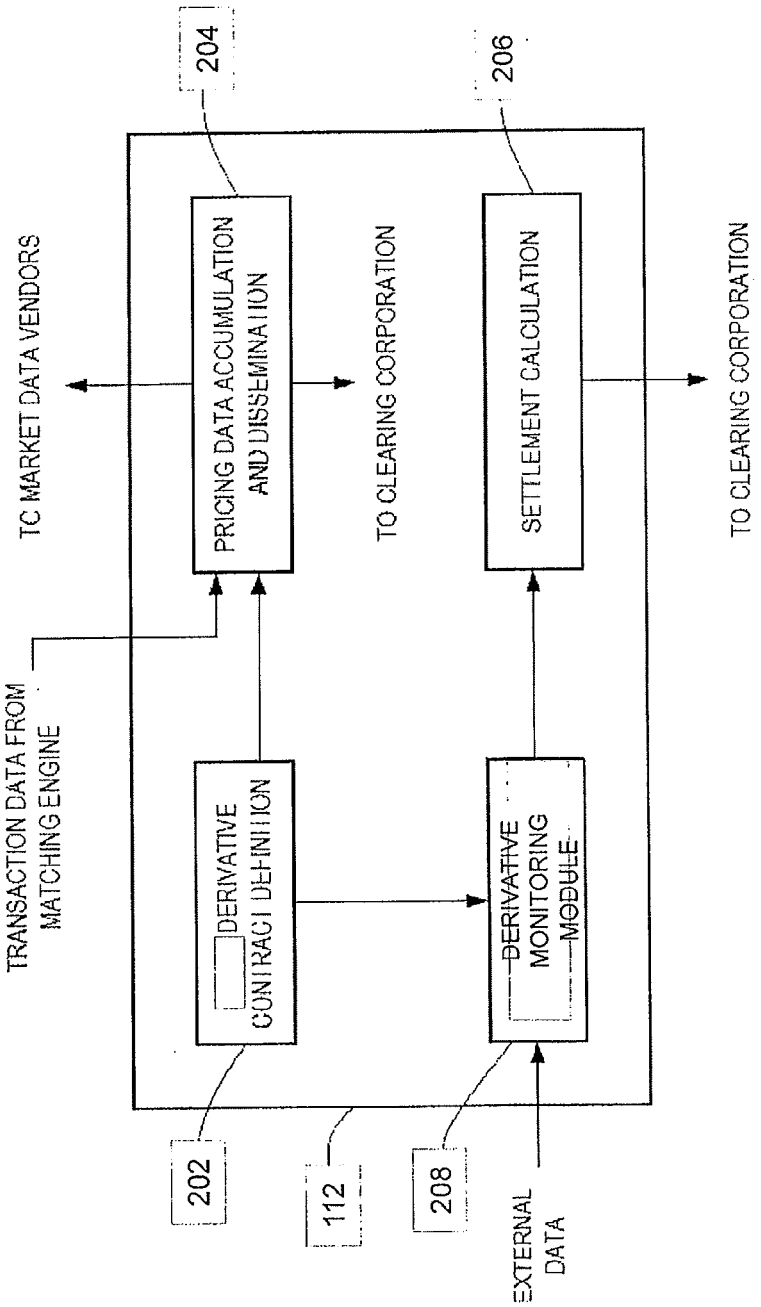

204
206
TC MARKET DATA VENDORS
PRICING DATA ACCUMULATION AND DISSEMINATION
TO CLEARING CORPORATION
SETTLEMENT CALCULATION
TO CLEARING CORPORATION
TRANSACTION DATA FROM MATCHING ENGINE
DERIVATIVE CONTRACT DEFINITION
DERIVATIVE MONITORING MODULE
202
112
208
EXTERNAL DATA

FIG. 2

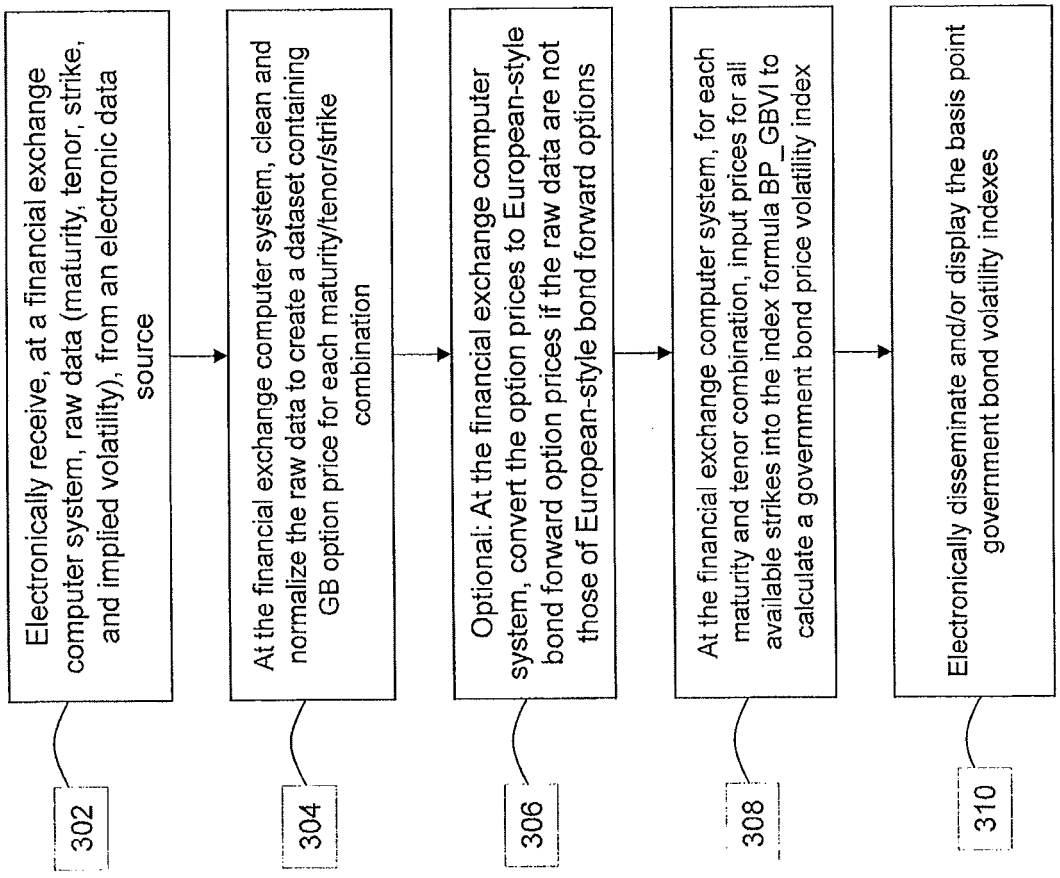

Electronically receive, at a financial exchange computer system, raw data (maturity, tenor, strike, and implied volatility), from an electronic data source
302
At the financial exchange computer system, clean and normalize the raw data to create a dataset containing GB option price for each maturity/tenor/strike combination
304
Optional: At the financial exchange computer system, convert the option prices to European-style bond forward option prices if the raw data are not those of European-style bond forward options
306
At the financial exchange computer system, for each maturity and tenor combination, input prices for all available strikes into the index formula BP_GBVI to calculate a government bond price volatility index
308
Electronically disseminate and/or display the basis point government bond volatility indexes
310

FIG. 3

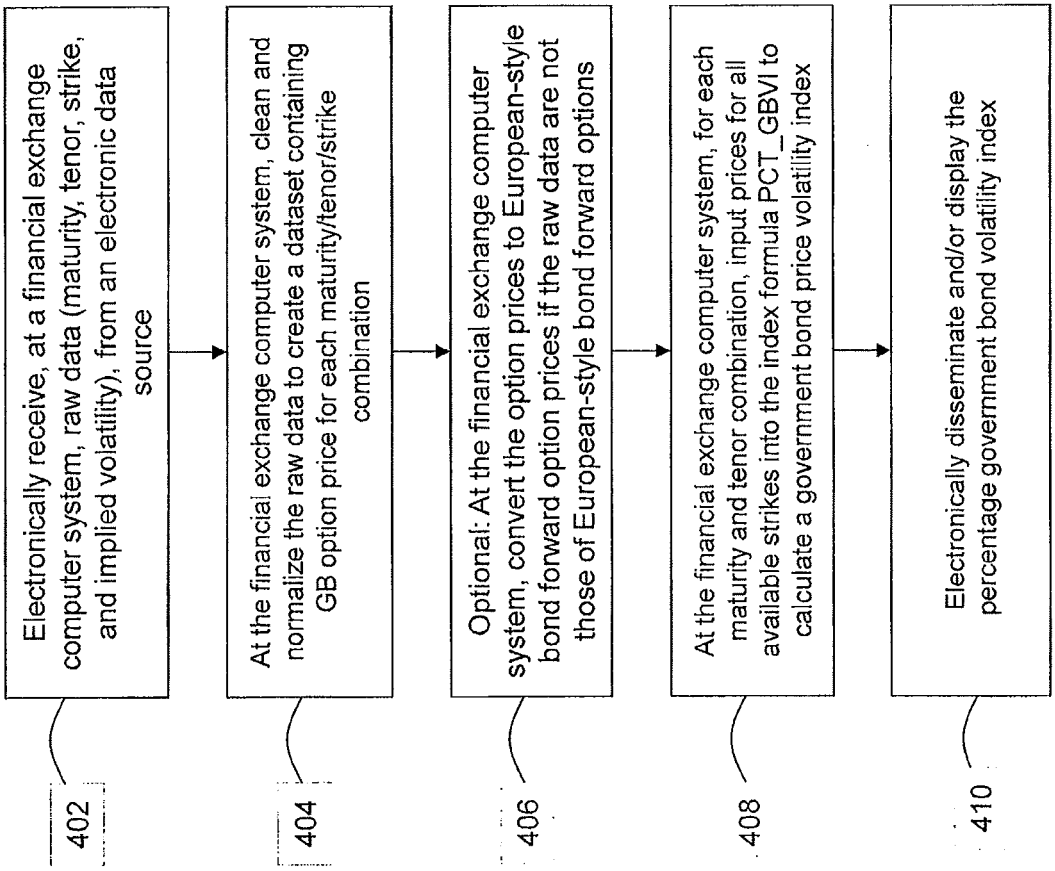
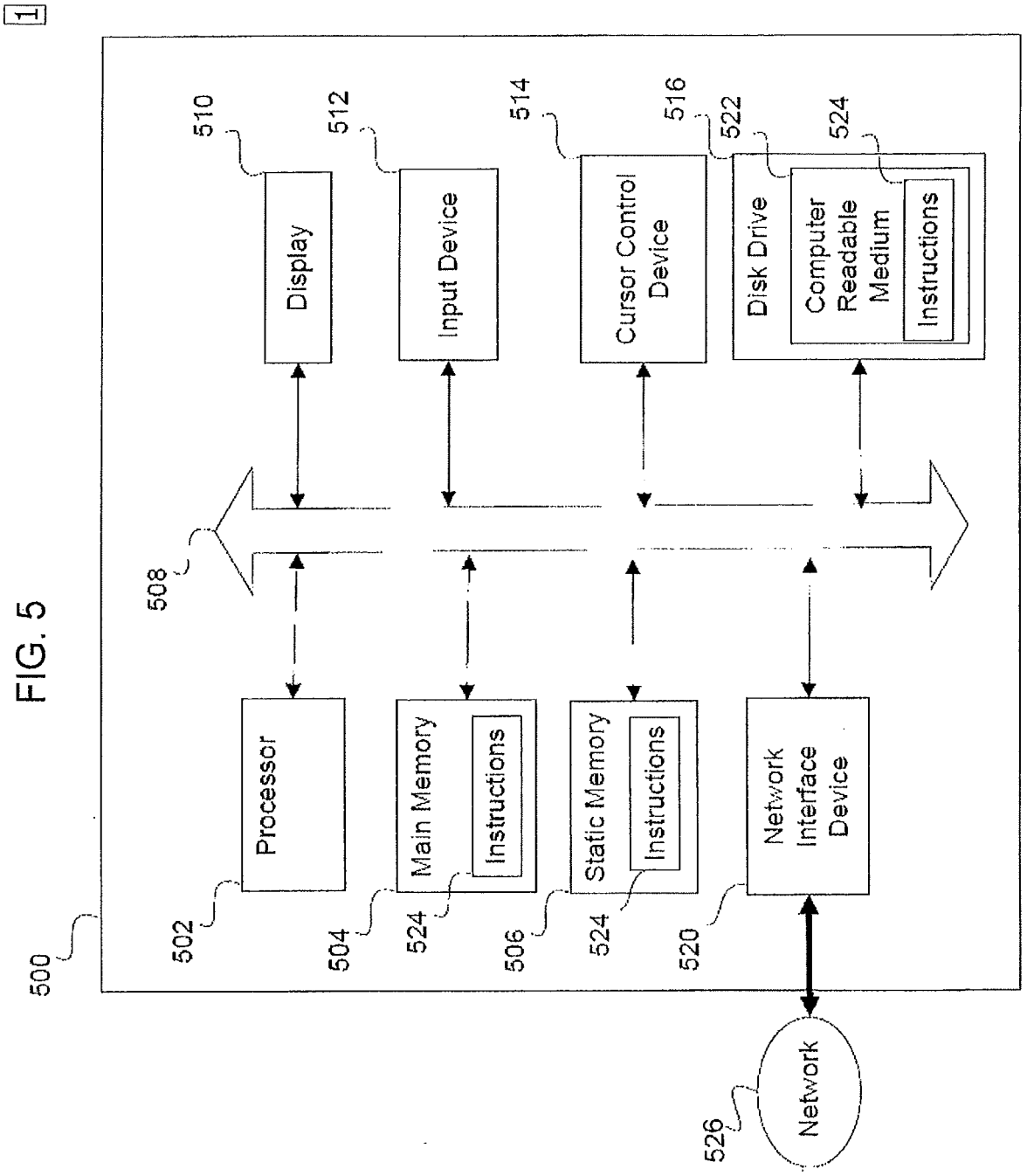

Electronically receive, at a financial exchange computer system, raw data (maturity, tenor, strike, and implied volatility), from an electronic data source
402
At the financial exchange computer system, clean and normalize the raw data to create a dataset containing GB option price for each maturity/tenor/strike combination
404
Optional: At the financial exchange computer system, convert the option prices to European-style bond forward option prices if the raw data are not those of European-style bond forward options
406
At the financial exchange computer system, for each maturity and tenor combination, input prices for all available strikes into the index formula PCT_GBVI to calculate a government bond price volatility index
408
Electronically disseminate and/or display the percentage government bond volatility index
410

FIG. 4

FIG. 5


1
500
502
Processor
504
Main Memory
Instructions
524
506
Static Memory
Instructions
524
508
510
Display
512
Input Device
514
Cursor Control Device
516
522
Disk Drive
524
Computer Readable Medium
Instructions
520
Network Interface Device
526
Network

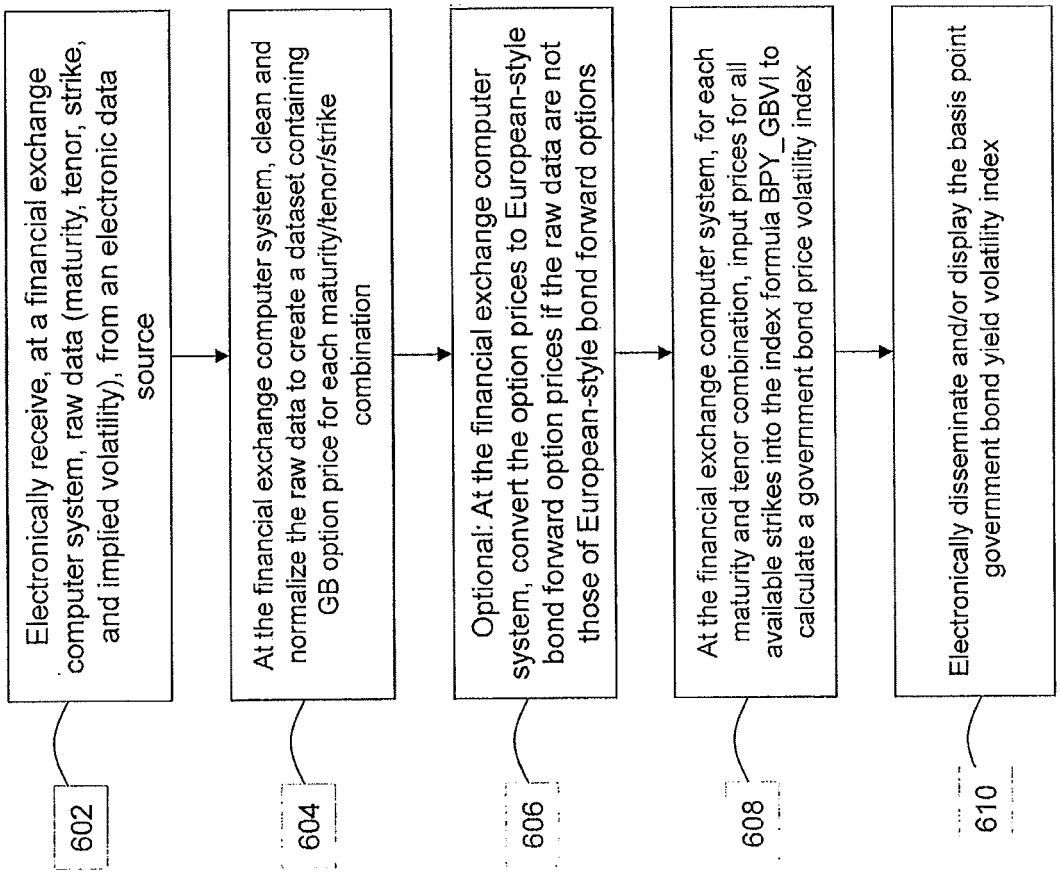

Electronically receive, at a financial exchange computer system, raw data (maturity, tenor, strike, and implied volatility), from an electronic data source
602
At the financial exchange computer system, clean and normalize the raw data to create a dataset containing GB option price for each maturity/tenor/strike combination
604
Optional: At the financial exchange computer system, convert the option prices to European-style bond forward option prices if the raw data are not those of European-style bond forward options
606
At the financial exchange computer system, for each maturity and tenor combination, input prices for all available strikes into the index formula BPY_GBVI to calculate a government bond price volatility index
608
Electronically disseminate and/or display the basis point government bond yield volatility index
610

FIG. 6