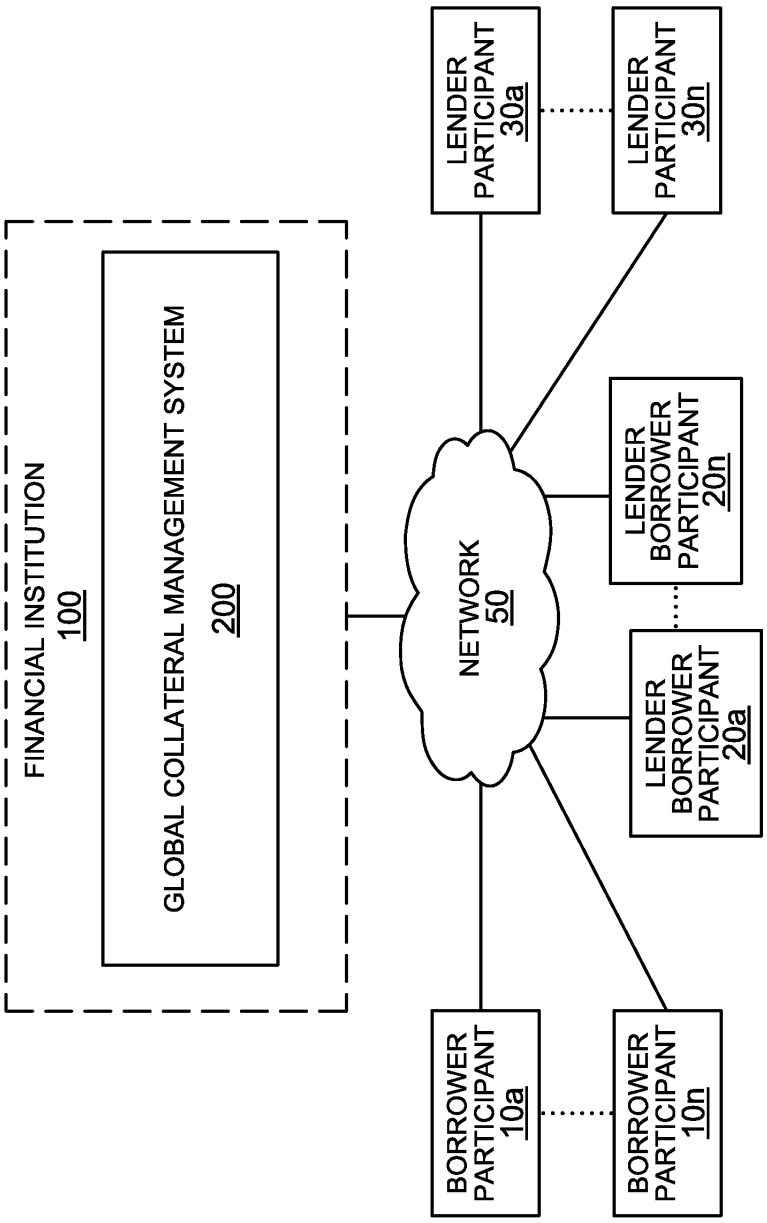

FINANCIAL INSTITUTION
100
GLOBAL COLLATERAL MANAGEMENT SYSTEM
200
NETWORK
50
LENDER PARTICIPANT 30a
LENDER PARTICIPANT 30n
LENDER BORROWER PARTICIPANT 20n
LENDER BORROWER PARTICIPANT 20a
BORROWER PARTICIPANT 10a
BORROWER PARTICIPANT 10n

FIG.1

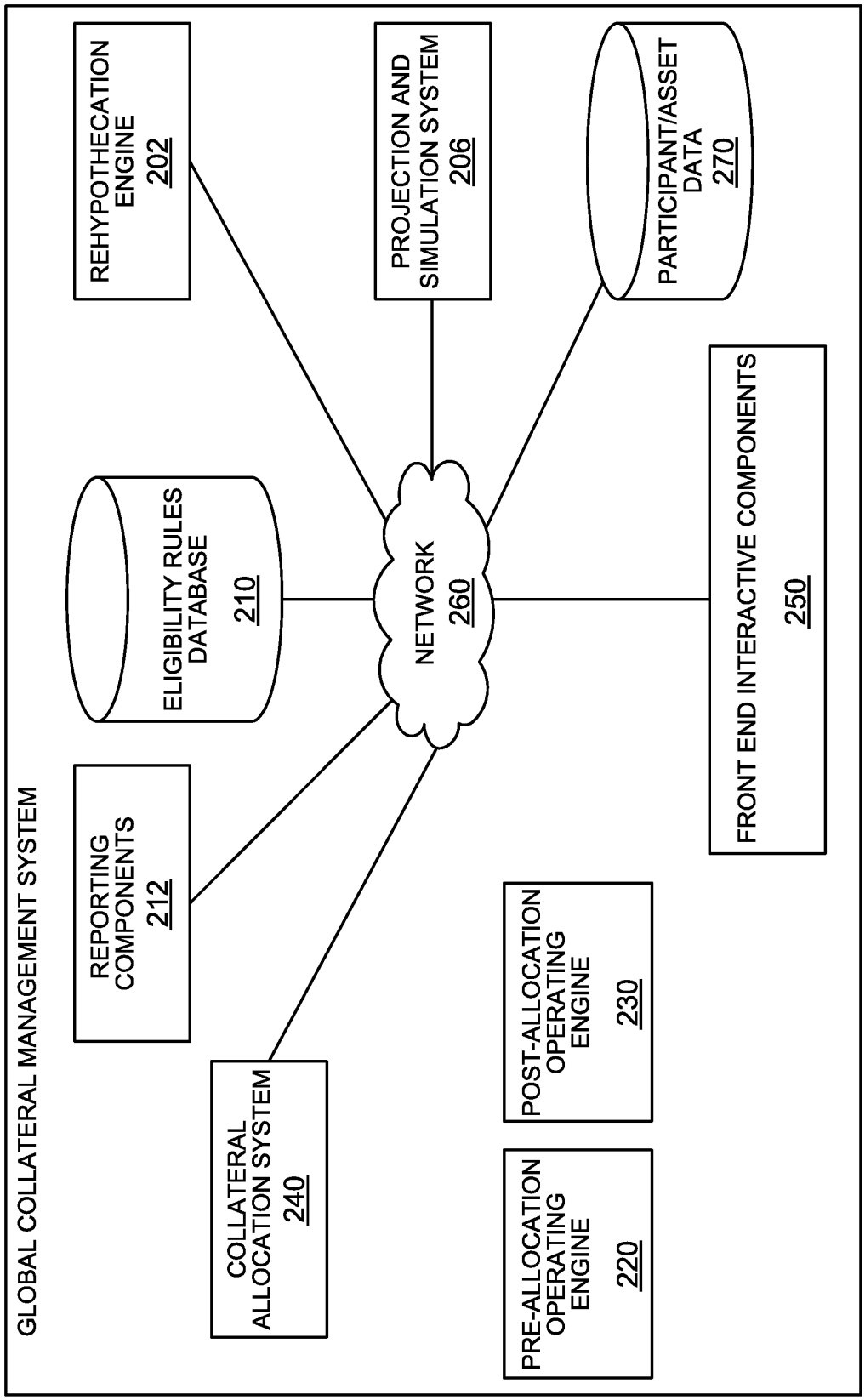

GLOBAL COLLATERAL MANAGEMENT SYSTEM
REHYPOTHECATION ENGINE 202
PROJECTION AND SIMULATION SYSTEM 206
PARTICIPANT/ASSET DATA 270
ELIGIBILITY RULES DATABASE 210
NETWORK 260
FRONT END INTERACTIVE COMPONENTS 250
REPORTING COMPONENTS 212
COLLATERAL ALLOCATION SYSTEM 240
POST-ALLOCATION OPERATING ENGINE 230
PRE-ALLOCATION OPERATING ENGINE 220

FIG.2

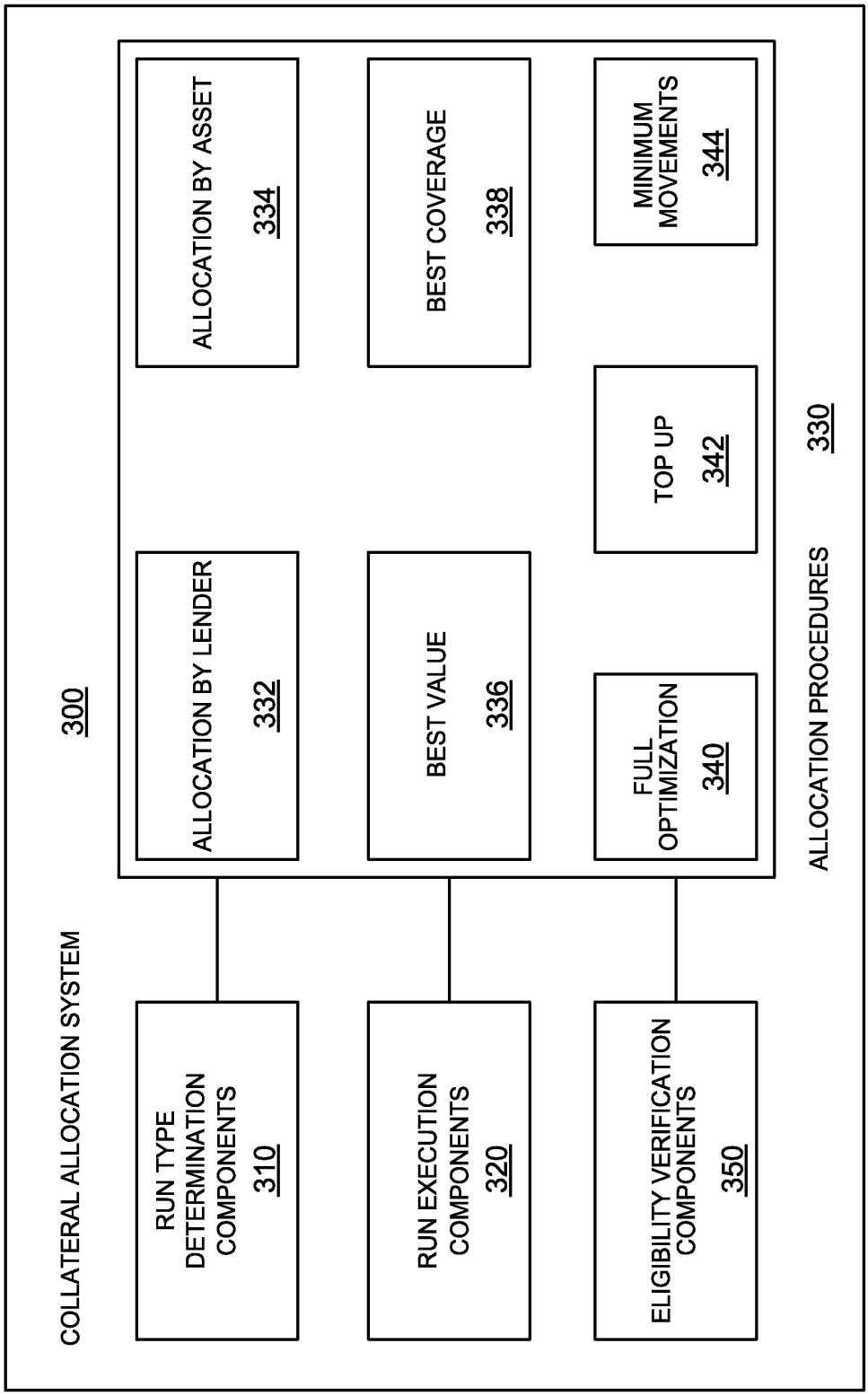

COLLATERAL ALLOCATION SYSTEM
300
RUN TYPE DETERMINATION COMPONENTS
310
RUN EXECUTION COMPONENTS
320
ELIGIBILITY VERIFICATION COMPONENTS
350
ALLOCATION PROCEDURES
330
ALLOCATION BY LENDER
332
ALLOCATION BY ASSET
334
BEST VALUE
336
BEST COVERAGE
338
FULL OPTIMIZATION
340
TOP UP
342
MINIMUM MOVEMENTS
344

FIG.3


FRONT END INTERACTIVE COMPONENTS
400
ELIGILBILITY SELECTION COMPONENTS
410
RUN TYPE SELECTION COMPONENTS
420
SIMULATION VIEWING AND SELECTION COMPONENTS
430
LONG BOX INTERACTIVE VIEWING AND MANAGEMENT COMPONENTS
440
INTERACTIVE RANKING ENGINE
450
LIMIT/THRESHOLD CONTROLLER
460

FIG.4

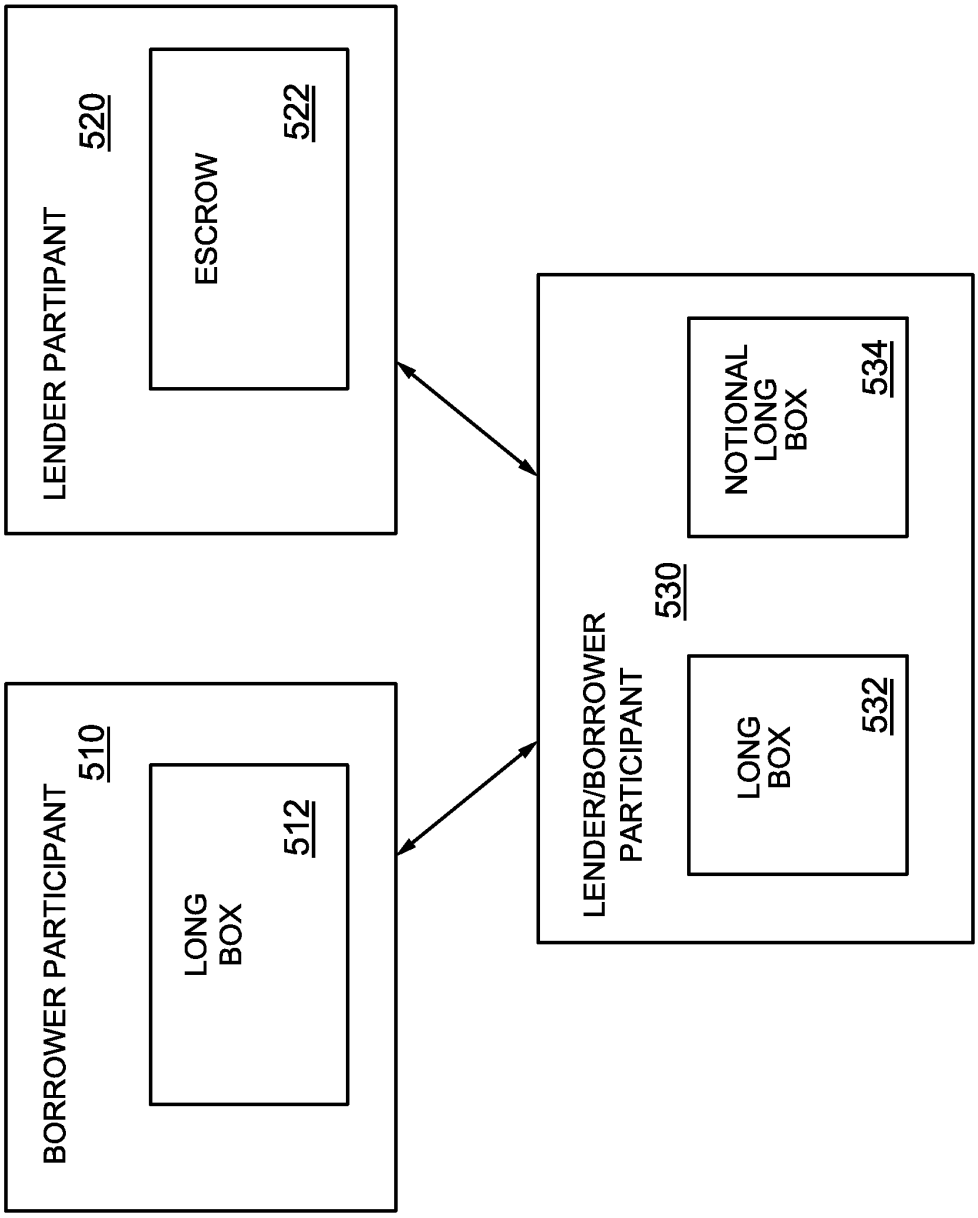

LENDER PARTIPANT
520
ESCROW
522
BORROWER PARTICIPANT
510
LONG BOX
512
LENDER/BORROWER PARTICIPANT
530
NOTIONAL LONG BOX
534
LONG BOX
532

FIG.5

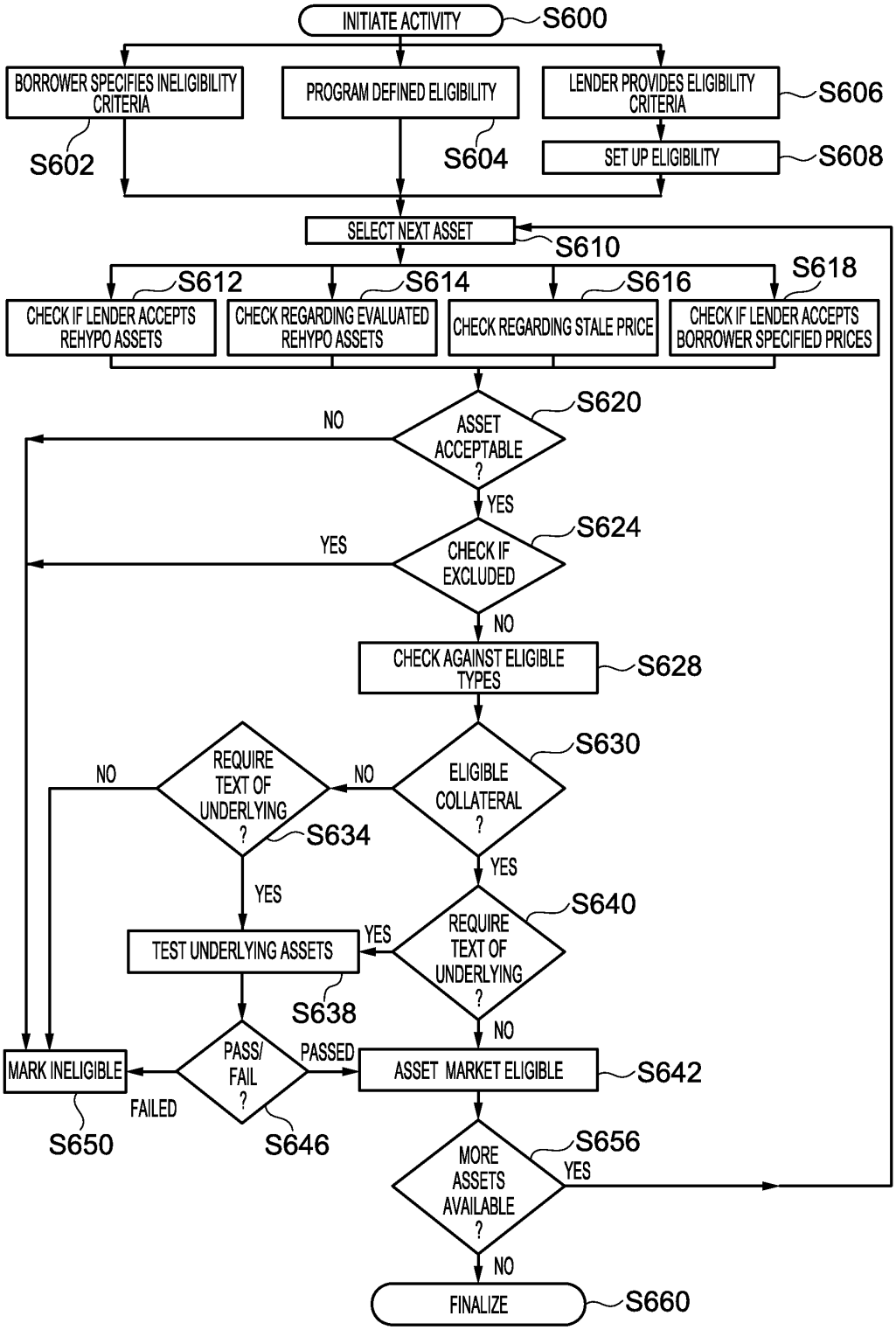

INITIATE ACTIVITY
S600
BORROWER SPECIFIES INELIGIBILITY CRITERIA
PROGRAM DEFINED ELIGIBILITY
LENDER PROVIDES ELIGIBILITY CRITERIA
S606
S602
S604
SET UP ELIGIBILITY
S608
SELECT NEXT ASSET
S610
S612
S614
S616
S618
CHECK IF LENDER ACCEPTS REHYPO ASSETS
CHECK REGARDING EVALUATED REHYPO ASSETS
CHECK REGARDING STALE PRICE
CHECK IF LENDER ACCEPTS BORROWER SPECIFIED PRICES
S620
ASSET ACCEPTABLE ?
NO
YES
S624
CHECK IF EXCLUDED
YES
NO
CHECK AGAINST ELIGIBLE TYPES
S628
S630
ELIGIBLE COLLATERAL ?
NO
REQUIRE TEXT OF UNDERLYING ?
S634
NO
YES
YES
S640
REQUIRE TEXT OF UNDERLYING ?
TEST UNDERLYING ASSETS
YES
S638
NO
PASS/ FAIL ?
PASSED
MARK INELIGIBLE
ASSET MARKET ELIGIBLE
S642
FAILED
S650
S646
S656
MORE ASSETS AVAILABLE ?
YES
NO
FINALIZE
S660

FIG.6

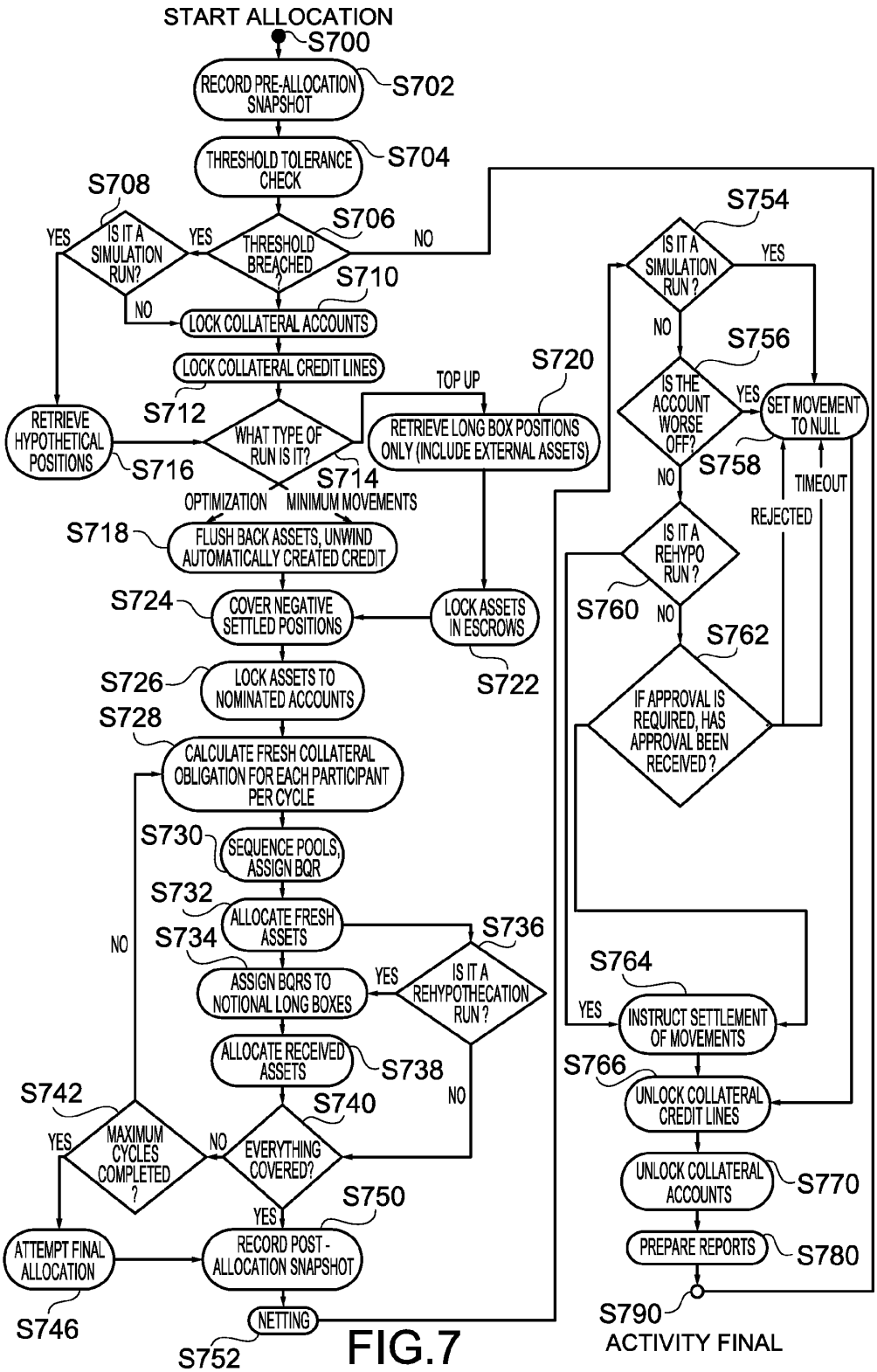

START ALLOCATION
S700
RECORD PRE-ALLOCATION SNAPSHOT
S702
THRESHOLD TOLERANCE CHECK
S704
S706
THRESHOLD BREACHED ?
S708
IS IT A SIMULATION RUN?
YES
NO
S710
LOCK COLLATERAL ACCOUNTS
LOCK COLLATERAL CREDIT LINES
S712
WHAT TYPE OF RUN IS IT?
S714
OPTIMIZATION
MINIMUM MOVEMENTS
RETRIEVE HYPOTHETICAL POSITIONS
S716
S718
FLUSH BACK ASSETS, UNWIND AUTOMATICALLY CREATED CREDIT
TOP UP
S720
RETRIEVE LONG BOX POSITIONS ONLY (INCLUDE EXTERNAL ASSETS)
LOCK ASSETS IN ESCROWS
S722
S724
COVER NEGATIVE SETTLED POSITIONS
S726
LOCK ASSETS TO NOMINATED ACCOUNTS
S728
CALCULATE FRESH COLLATERAL OBLIGATION FOR EACH PARTICIPANT PER CYCLE
S730
SEQUENCE POOLS, ASSIGN BQR
S732
ALLOCATE FRESH ASSETS
S734
ASSIGN BQRS TO NOTIONAL LONG BOXES
S736
IS IT A REHYPOTHECATION RUN ?
ALLOCATE RECEIVED ASSETS
S738
S740
EVERYTHING COVERED?
S742
MAXIMUM CYCLES COMPLETED ?
S750
RECORD POST - ALLOCATION SNAPSHOT
ATTEMPT FINAL ALLOCATION
S746
NETTING
S752
S754
IS IT A SIMULATION RUN ?
S756
IS THE ACCOUNT WORSE OFF?
S758
SET MOVEMENT TO NULL
TIMEOUT
REJECTED
IS IT A REHYPO RUN ?
S760
S762
IF APPROVAL IS REQUIRED, HAS APPROVAL BEEN RECEIVED ?
S764
INSTRUCT SETTLEMENT OF MOVEMENTS
S766
UNLOCK COLLATERAL CREDIT LINES
UNLOCK COLLATERAL ACCOUNTS
S770
PREPARE REPORTS
S780
S790
ACTIVITY FINAL

FIG.7

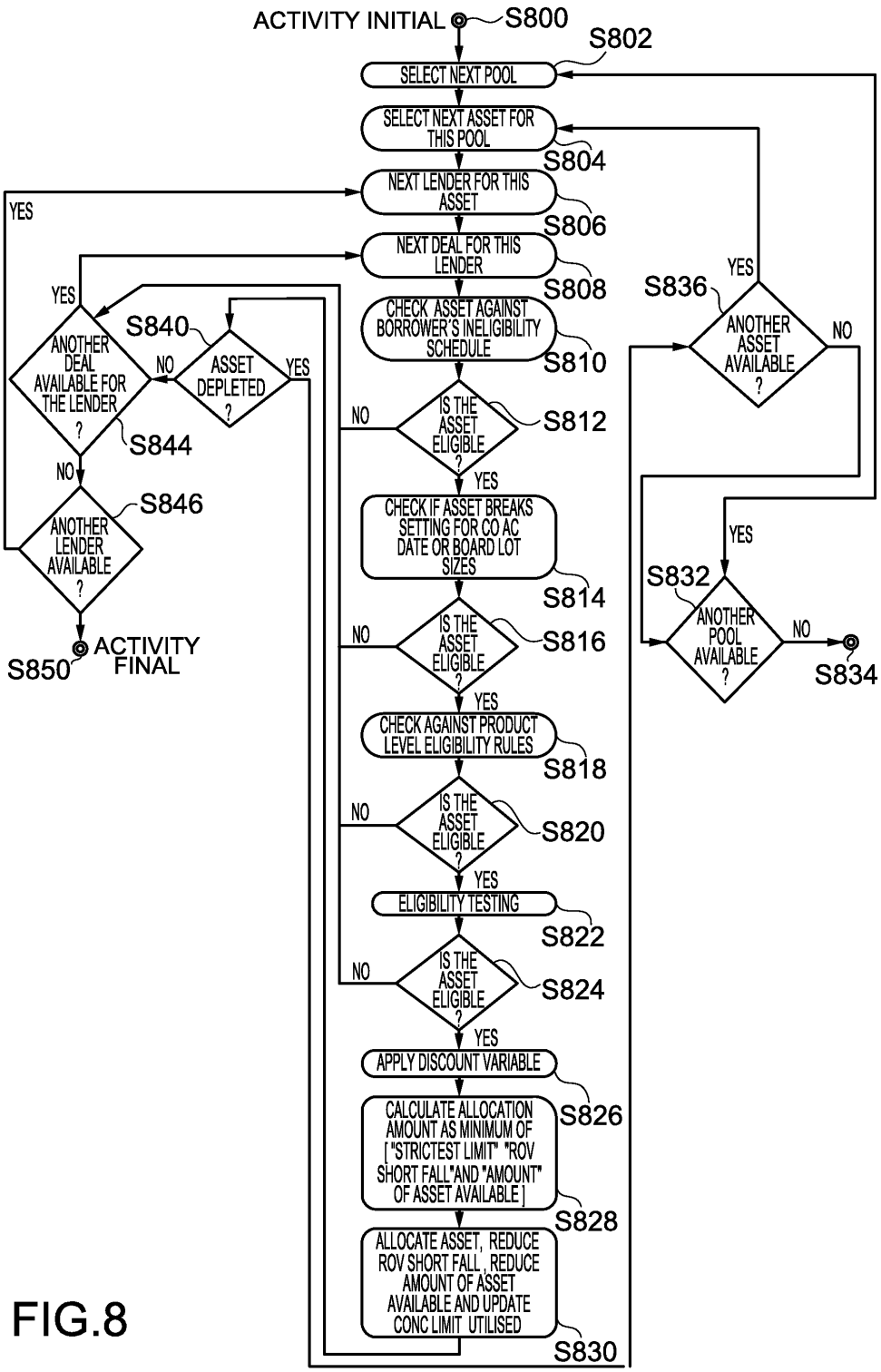

ACTIVITY INITIAL
S800
S802
SELECT NEXT POOL
SELECT NEXT ASSET FOR THIS POOL
S804
NEXT LENDER FOR THIS ASSET
S806
NEXT DEAL FOR THIS LENDER
S808
CHECK ASSET AGAINST BORROWER'S INELIGIBILITY SCHEDULE
S810
IS THE ASSET ELIGIBLE ?
S812
CHECK IF ASSET BREAKS SETTING FOR CO AC DATE OR BOARD LOT SIZES
S814
IS THE ASSET ELIGIBLE ?
S816
CHECK AGAINST PRODUCT LEVEL ELIGIBILITY RULES
S818
IS THE ASSET ELIGIBLE ?
S820
ELIGIBILITY TESTING
S822
IS THE ASSET ELIGIBLE ?
S824
APPLY DISCOUNT VARIABLE
CALCULATE ALLOCATION AMOUNT AS MINIMUM OF ["STRICTEST LIMIT" "ROV SHORT FALL"AND "AMOUNT" OF ASSET AVAILABLE]
S826
S828
ALLOCATE ASSET, REDUCE ROV SHORT FALL , REDUCE AMOUNT OF ASSET AVAILABLE AND UPDATE CONC LIMIT UTILISED
S830
ASSET DEPLETED ?
S840
ANOTHER DEAL AVAILABLE FOR THE LENDER ?
S844
ANOTHER LENDER AVAILABLE ?
S846
ACTIVITY FINAL
S850
ANOTHER ASSET AVAILABLE ?
S836
ANOTHER POOL AVAILABLE ?
S832
S834
YES
NO

FIG.8

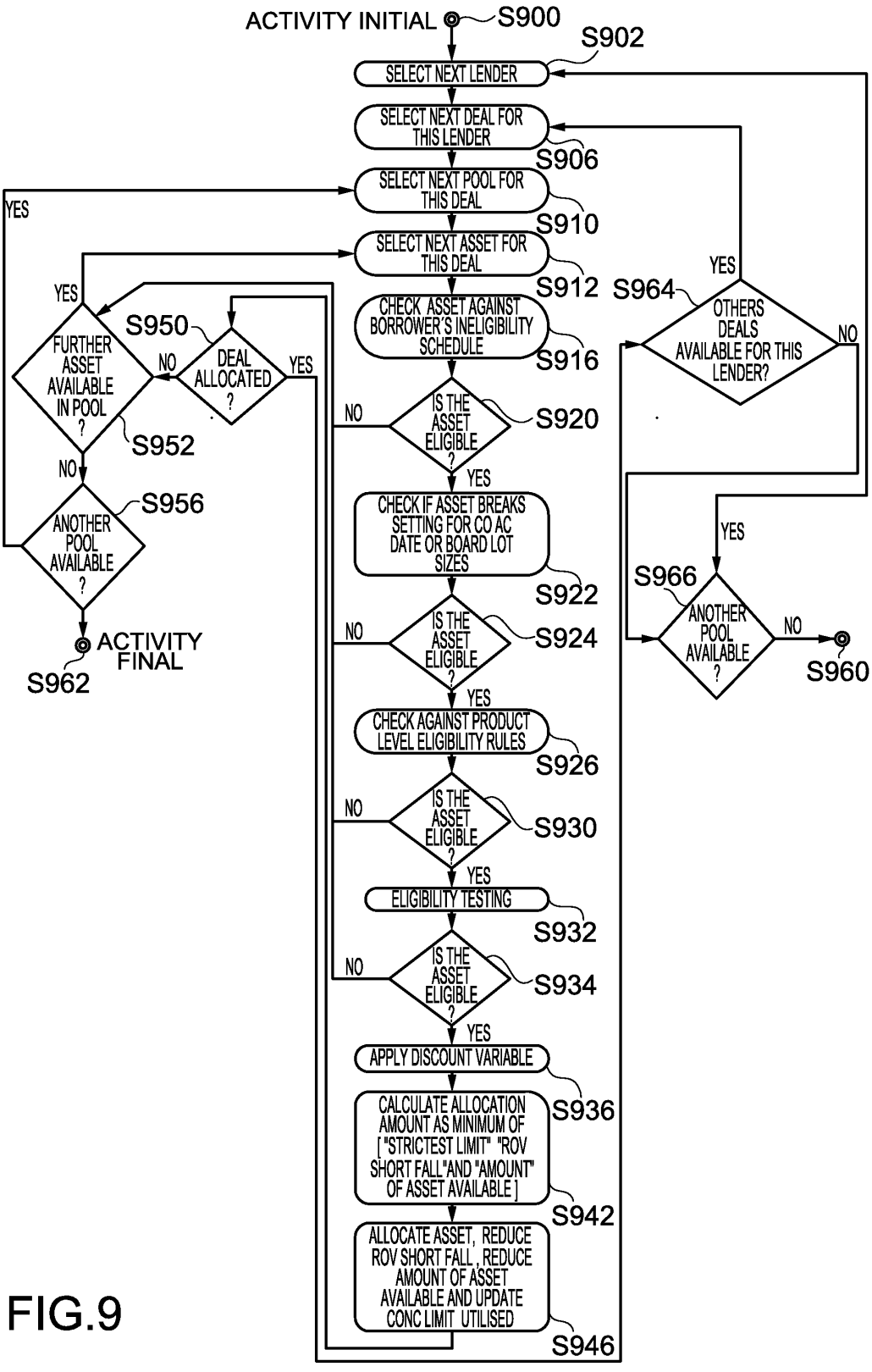

ACTIVITY INITIAL
S900
S902
SELECT NEXT LENDER
SELECT NEXT DEAL FOR THIS LENDER
S906
SELECT NEXT POOL FOR THIS DEAL
S910
SELECT NEXT ASSET FOR THIS DEAL
S912
CHECK ASSET AGAINST BORROWER'S INELIGIBILITY SCHEDULE
S916
IS THE ASSET ELIGIBLE ?
S920
CHECK IF ASSET BREAKS SETTING FOR CO AC DATE OR BOARD LOT SIZES
S922
IS THE ASSET ELIGIBLE ?
S924
CHECK AGAINST PRODUCT LEVEL ELIGIBILITY RULES
S926
IS THE ASSET ELIGIBLE ?
S930
ELIGIBILITY TESTING
S932
IS THE ASSET ELIGIBLE ?
S934
APPLY DISCOUNT VARIABLE
S936
CALCULATE ALLOCATION AMOUNT AS MINIMUM OF ["STRICTEST LIMIT" "ROV SHORT FALL"AND "AMOUNT" OF ASSET AVAILABLE]
S942
ALLOCATE ASSET, REDUCE ROV SHORT FALL , REDUCE AMOUNT OF ASSET AVAILABLE AND UPDATE CONC LIMIT UTILISED
S946
FURTHER ASSET AVAILABLE IN POOL ?
S952
DEAL ALLOCATED ?
S950
ANOTHER POOL AVAILABLE ?
S956
ACTIVITY FINAL
S962
OTHERS DEALS AVAILABLE FOR THIS LENDER?
S964
ANOTHER POOL AVAILABLE ?
S966
S960
YES
NO

FIG.9

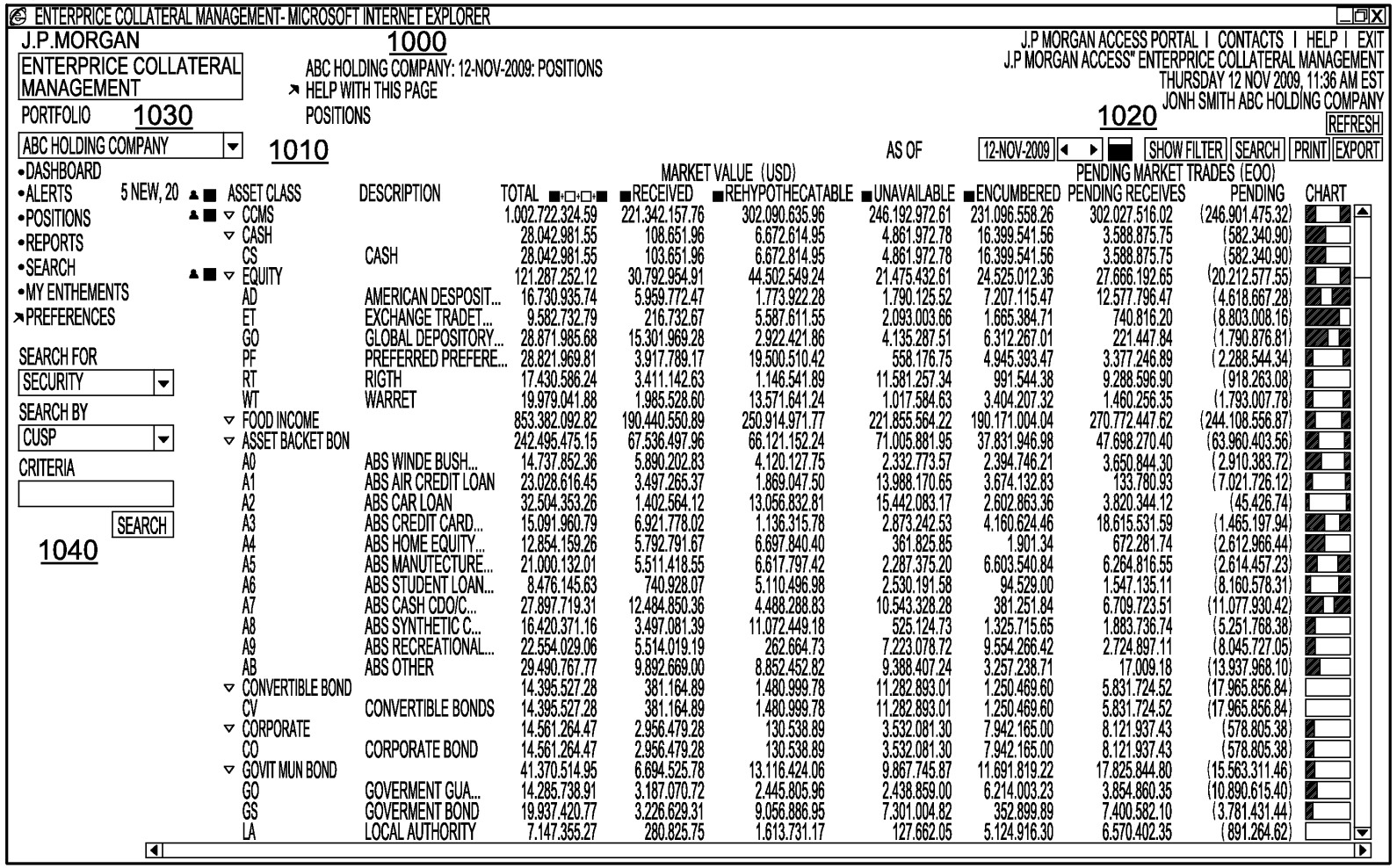

ENTERPRICE COLLATERAL MANAGEMENT- MICROSOFT INTERNET EXPLORER
J.P.MORGAN
1000
ENTERPRICE COLLATERAL MANAGEMENT
ABC HOLDING COMPANY: 12-NOV-2009: POSITIONS
HELP WITH THIS PAGE
POSITIONS
J.P MORGAN ACCESS PORTAL | CONTACTS | HELP | EXIT
J.P MORGAN ACCESS" ENTERPRICE COLLATERAL MANAGEMENT
THURSDAY 12 NOV 2009, 11:36 AM EST
JONH SMITH ABC HOLDING COMPANY
REFRESH
PORTFOLIO
1030
1020
ABC HOLDING COMPANY
1010
AS OF
12-NOV-2009
SHOW FILTER
SEARCH
PRINT
EXPORT
•DASHBOARD
•ALERTS 5 NEW, 20
•POSITIONS
•REPORTS
•SEARCH
•MY ENTHEMENTS
PREFERENCES
SEARCH FOR
SECURITY
SEARCH BY
CUSP
CRITERIA
SEARCH
1040
MARKET VALUE (USD)
PENDING MARKET TRADES (EOO)
ASSET CLASS
DESCRIPTION
TOTAL
RECEIVED
REHYPOTHECATABLE
UNAVAILABLE
ENCUMBERED
PENDING RECEIVES
PENDING
CHART
CCMS 1.002.722.324.59 221.342.157.76 302.090.635.96 246.192.972.61 231.096.558.26 302.027.516.02 (246.901.475.32)
CASH 28.042.981.55 108.651.96 6.672.614.95 4.861.972.78 16.399.541.56 3.588.875.75 (582.340.90)
CS CASH 28.042.981.55 103.651.96 6.672.814.95 4.861.972.78 16.399.541.56 3.588.875.75 (582.340.90)
EQUITY 121.287.252.12 30.792.954.91 44.502.549.24 21.475.432.61 24.525.012.36 27.666.192.65 (20.212.577.55)
AD AMERICAN DESPOSIT... 16.730.935.74 5.959.772.47 1.773.922.28 1.790.125.52 7.207.115.47 12.577.796.47 (4.618.667.28)
ET EXCHANGE TRADET... 9.582.732.79 216.732.67 5.587.611.55 2.093.003.66 1.665.384.71 740.816.20 (8.803.008.16)
GO GLOBAL DEPOSITORY... 28.871.985.68 15.301.969.28 2.922.421.86 4.135.287.51 6.312.267.01 221.447.84 (1.790.876.81)
PF PREFERRED PREFERE... 28.821.969.81 3.917.789.17 19.500.510.42 558.176.75 4.945.393.47 3.377.246.89 (2.288.544.34)
RT RIGTH 17.430.586.24 3.411.142.63 1.146.541.89 11.581.257.34 991.544.38 9.288.596.90 (918.263.08)
WT WARRET 19.979.041.88 1.985.528.60 13.571.641.24 1.017.584.63 3.404.207.32 1.460.256.35 (1.793.007.78)
FOOD INCOME 853.382.092.82 190.440.550.89 250.914.971.77 221.855.564.22 190.171.004.04 270.772.447.62 (244.108.556.87)
ASSET BACKET BON 242.495.475.15 67.536.497.96 66.121.152.24 71.005.881.95 37.831.946.98 47.698.270.40 (63.960.403.56)
A0 ABS WINDE BUSH... 14.737.852.36 5.890.202.83 4.120.127.75 2.332.773.57 2.394.746.21 3.650.844.30 (2.910.383.72)
A1 ABS AIR CREDIT LOAN 23.028.616.45 3.497.265.37 1.869.047.50 13.988.170.65 3.674.132.83 133.780.93 (7.021.726.12)
A2 ABS CAR LOAN 32.504.353.26 1.402.564.12 13.056.832.81 15.442.083.17 2.602.863.36 3.820.344.12 (45.426.74)
A3 ABS CREDIT CARD... 15.091.960.79 6.921.778.02 1.136.315.78 2.873.242.53 4.160.624.46 18.615.531.59 (1.465.197.94)
A4 ABS HOME EQUITY... 12.854.159.26 5.792.791.67 6.697.840.40 361.825.85 1.901.34 672.281.74 (2.612.966.44)
A5 ABS MANUTECTURE... 21.000.132.01 5.511.418.55 6.617.797.42 2.287.375.20 6.603.540.84 6.264.816.55 (2.614.457.23)
A6 ABS STUDENT LOAN... 8.476.145.63 740.928.07 5.110.496.98 2.530.191.58 94.529.00 1.547.135.11 (8.160.578.31)
A7 ABS CASH CDO/C... 27.897.719.31 12.484.850.36 4.488.288.83 10.543.328.28 381.251.84 6.709.723.51 (11.077.930.42)
A8 ABS SYNTHETIC C... 16.420.371.16 3.497.081.39 11.072.449.18 525.124.73 1.325.715.65 1.883.736.74 (5.251.768.38)
A9 ABS RECREATIONAL... 22.554.029.06 5.514.019.19 262.664.73 7.223.078.72 9.554.266.42 2.724.897.11 (8.045.727.05)
AB ABS OTHER 29.490.767.77 9.892.669.00 8.852.452.82 9.388.407.24 3.257.238.71 17.009.18 (13.937.968.10)
CONVERTIBLE BOND 14.395.527.28 381.164.89 1.480.999.78 11.282.893.01 1.250.469.60 5.831.724.52 (17.965.856.84)
CV CONVERTIBLE BONDS 14.395.527.28 381.164.89 1.480.999.78 11.282.893.01 1.250.469.60 5.831.724.52 (17.965.856.84)
CORPORATE 14.561.264.47 2.956.479.28 130.538.89 3.532.081.30 7.942.165.00 8.121.937.43 (578.805.38)
CO CORPORATE BOND 14.561.264.47 2.956.479.28 130.538.89 3.532.081.30 7.942.165.00 8.121.937.43 (578.805.38)
GOVIT MUN BOND 41.370.514.95 6.694.525.78 13.116.424.06 9.867.745.87 11.691.819.22 17.825.844.80 (15.563.311.46)
GO GOVERMENT GUA... 14.285.738.91 3.187.070.72 2.445.805.96 2.438.859.00 6.214.003.23 3.854.860.35 (10.890.615.40)
GS GOVERMENT BOND 19.937.420.77 3.226.629.31 9.056.886.95 7.301.004.82 352.899.89 7.400.582.10 (3.781.431.44)
LA LOCAL AUTHORITY 7.147.355.27 280.825.75 1.613.731.17 127.662.05 5.124.916.30 6.570.402.35 (891.264.62)

FIG.10

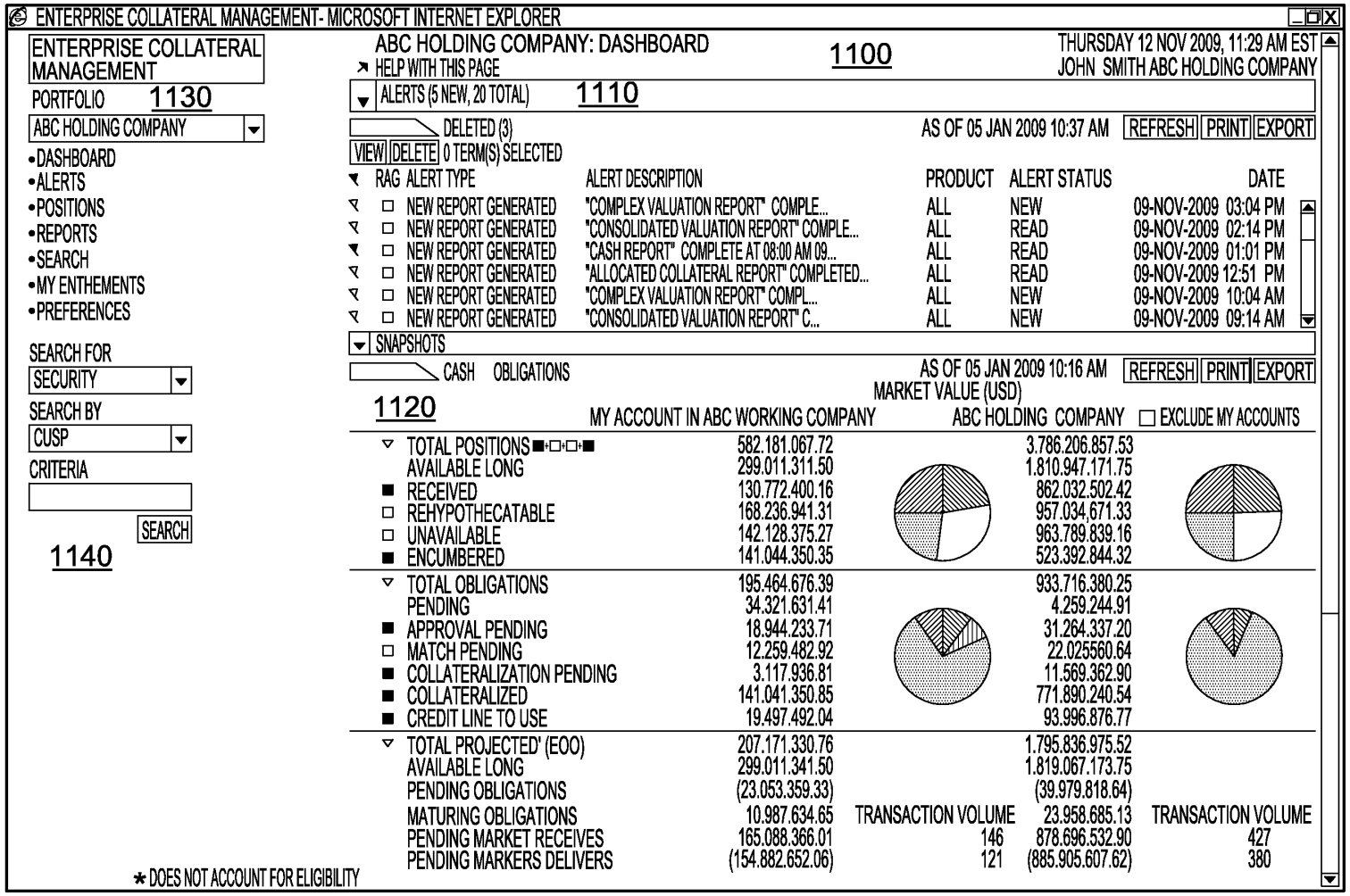

ENTERPRISE COLLATERAL MANAGEMENT- MICROSOFT INTERNET EXPLORER
ENTERPRISE COLLATERAL MANAGEMENT
PORTFOLIO
1130
ABC HOLDING COMPANY
•DASHBOARD
•ALERTS
•POSITIONS
•REPORTS
•SEARCH
•MY ENTHEMENTS
•PREFERENCES
SEARCH FOR
SECURITY
SEARCH BY
CUSP
CRITERIA
SEARCH
1140
ABC HOLDING COMPANY: DASHBOARD
1100
HELP WITH THIS PAGE
THURSDAY 12 NOV 2009, 11:29 AM EST
JOHN SMITH ABC HOLDING COMPANY
ALERTS (5 NEW, 20 TOTAL)
1110
DELETED (3)
AS OF 05 JAN 2009 10:37 AM
REFRESH
PRINT
EXPORT
VIEW
DELETE
0 TERM(S) SELECTED
RAG ALERT TYPE
ALERT DESCRIPTION
PRODUCT
ALERT STATUS
DATE
NEW REPORT GENERATED "COMPLEX VALUATION REPORT" COMPLE... ALL NEW 09-NOV-2009 03:04 PM
NEW REPORT GENERATED "CONSOLIDATED VALUATION REPORT" COMPLE... ALL READ 09-NOV-2009 02:14 PM
NEW REPORT GENERATED "CASH REPORT" COMPLETE AT 08:00 AM 09... ALL READ 09-NOV-2009 01:01 PM
NEW REPORT GENERATED "ALLOCATED COLLATERAL REPORT" COMPLETED... ALL READ 09-NOV-2009 12:51 PM
NEW REPORT GENERATED "COMPLEX VALUATION REPORT" COMPL... ALL NEW 09-NOV-2009 10:04 AM
NEW REPORT GENERATED "CONSOLIDATED VALUATION REPORT" C... ALL NEW 09-NOV-2009 09:14 AM
SNAPSHOTS
CASH OBLIGATIONS
AS OF 05 JAN 2009 10:16 AM
REFRESH
PRINT
EXPORT
1120
MARKET VALUE (USD)
MY ACCOUNT IN ABC WORKING COMPANY
ABC HOLDING COMPANY
EXCLUDE MY ACCOUNTS
TOTAL POSITIONS 582.181.067.72 3.786.206.857.53
AVAILABLE LONG 299.011.311.50 1.810.947.171.75
RECEIVED 130.772.400.16 862.032.502.42
REHYPOTHECATABLE 168.236.941.31 957.034.671.33
UNAVAILABLE 142.128.375.27 963.789.839.16
ENCUMBERED 141.044.350.35 523.392.844.32
TOTAL OBLIGATIONS 195.464.676.39 933.716.380.25
PENDING 34.321.631.41 4.259.244.91
APPROVAL PENDING 18.944.233.71 31.264.337.20
MATCH PENDING 12.259.482.92 22.025560.64
COLLATERALIZATION PENDING 3.117.936.81 11.569.362.90
COLLATERALIZED 141.041.350.85 771.890.240.54
CREDIT LINE TO USE 19.497.492.04 93.996.876.77
TOTAL PROJECTED' (EOO) 207.171.330.76 1.795.836.975.52
AVAILABLE LONG 299.011.341.50 1.819.067.173.75
PENDING OBLIGATIONS (23.053.359.33) (39.979.818.64)
MATURING OBLIGATIONS 10.987.634.65 TRANSACTION VOLUME 23.958.685.13 TRANSACTION VOLUME
PENDING MARKET RECEIVES 165.088.366.01 146 878.696.532.90 427
PENDING MARKERS DELIVERS (154.882.652.06) 121 (885.905.607.62) 380
* DOES NOT ACCOUNT FOR ELIGIBILITY

FIG.11

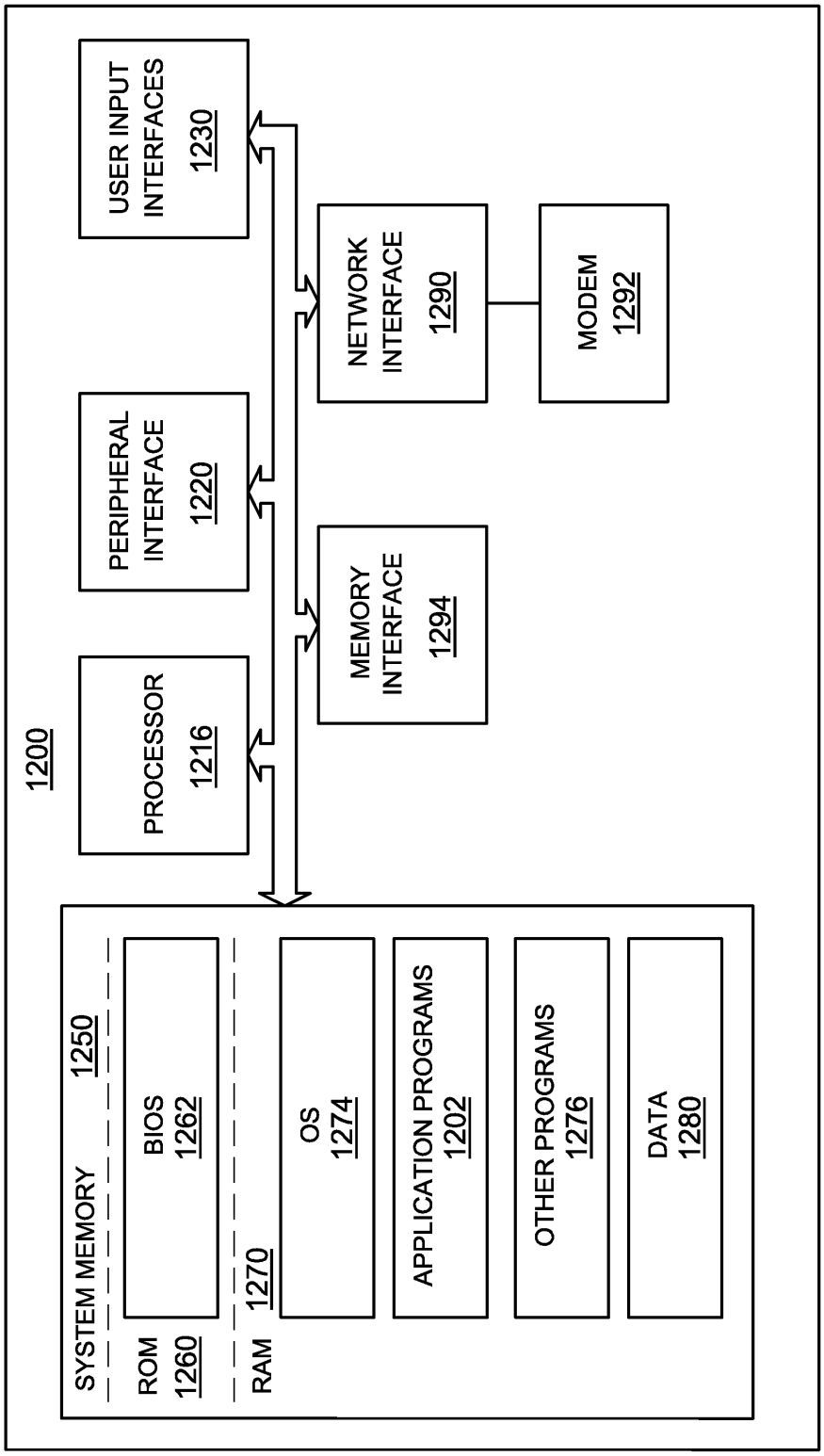

1200
PROCESSOR
1216
PERIPHERAL INTERFACE
1220
MEMORY INTERFACE
1294
NETWORK INTERFACE
1290
MODEM
1292
USER INPUT INTERFACES
1230
SYSTEM MEMORY
1250
ROM
1260
BIOS
1262
RAM
1270
OS
1274
APPLICATION PROGRAMS
1202
OTHER PROGRAMS
1276
DATA
1280

FIG.12