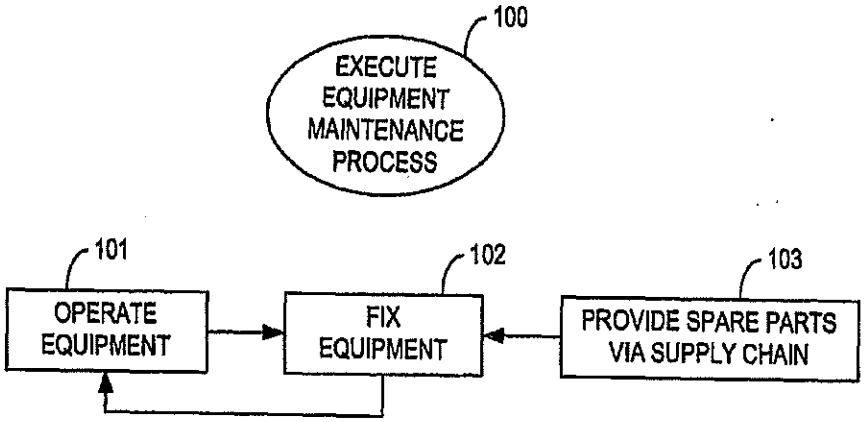

100
EXECUTE EQUIPMENT MAINTENANCE PROCESS
101
OPERATE EQUIPMENT
102
FIX EQUIPMENT
103
PROVIDE SPARE PARTS VIA SUPPLY CHAIN

FIGURE 1

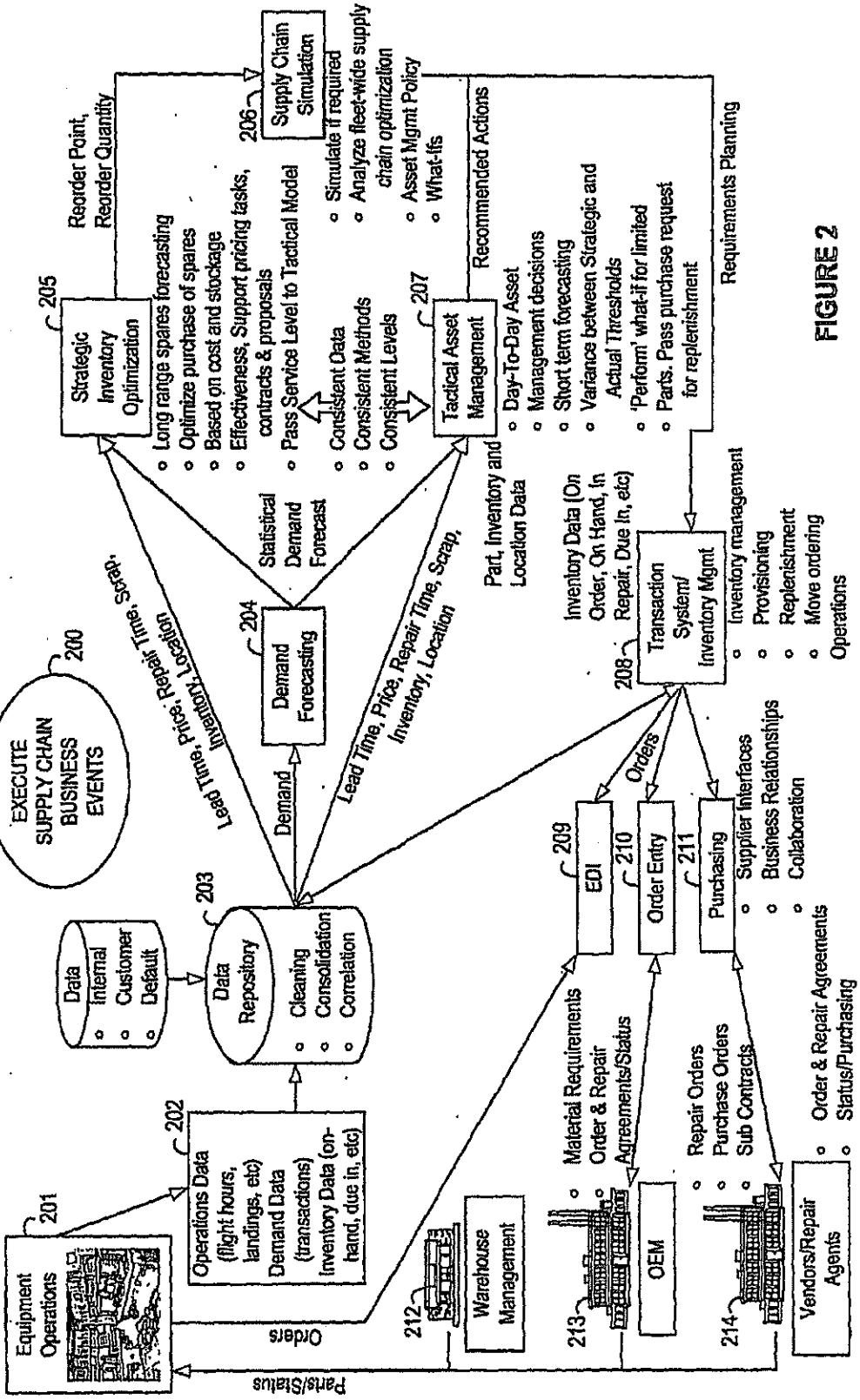

EXECUTE SUPPLY CHAIN BUSINESS EVENTS
200
Equipment Operations
201
Operations Data (flight hours, landings, etc)
Demand Data (transactions)
Inventory Data (on-hand, due in, etc)
202
Data
Internal
Customer
Default
Data Repository
Cleaning
Consolidation
Correlation
203
Demand Forecasting
204
Strategic Inventory Optimization
205
Supply Chain Simulation
206
Tactical Asset Management
207
Transaction System/ Inventory Mgmt
208
EDI
209
Order Entry
210
Purchasing
211
Warehouse Management
212
OEM
213
Vendors/Repair Agents
214
Reorder Point, Reorder Quantity
Long range spares forecasting
Optimize purchase of spares
Based on cost and stockage
Effectiveness, Support pricing tasks, contracts & proposals
Pass Service Level to Tactical Model
Consistent Data
Consistent Methods
Consistent Levels
Simulate if required
Analyze fleet-wide supply chain optimization
Asset Mgmt Policy
What-ifs
Recommended Actions
Day-To-Day Asset Management decisions
Short term forecasting
Variance between Strategic and Actual Thresholds
'Perform' what-if for limited Parts. Pass purchase request for replenishment
Requirements Planning
Statistical Demand Forecast
Part, Inventory and Location Data
Inventory Data (On Order, On Hand, In Repair, Due In, etc)
Inventory management
Provisioning
Replenishment
Move ordering Operations
Supplier Interfaces
Business Relationships
Collaboration
Order & Repair Agreements
Status/Purchasing
Material Requirements
Order & Repair Agreements/Status
Repair Orders
Purchase Orders
Sub Contracts
Lead Time, Price, Repair Time, Scrap, Inventory, Location
Demand
Orders
Parts/Status

FIGURE 2

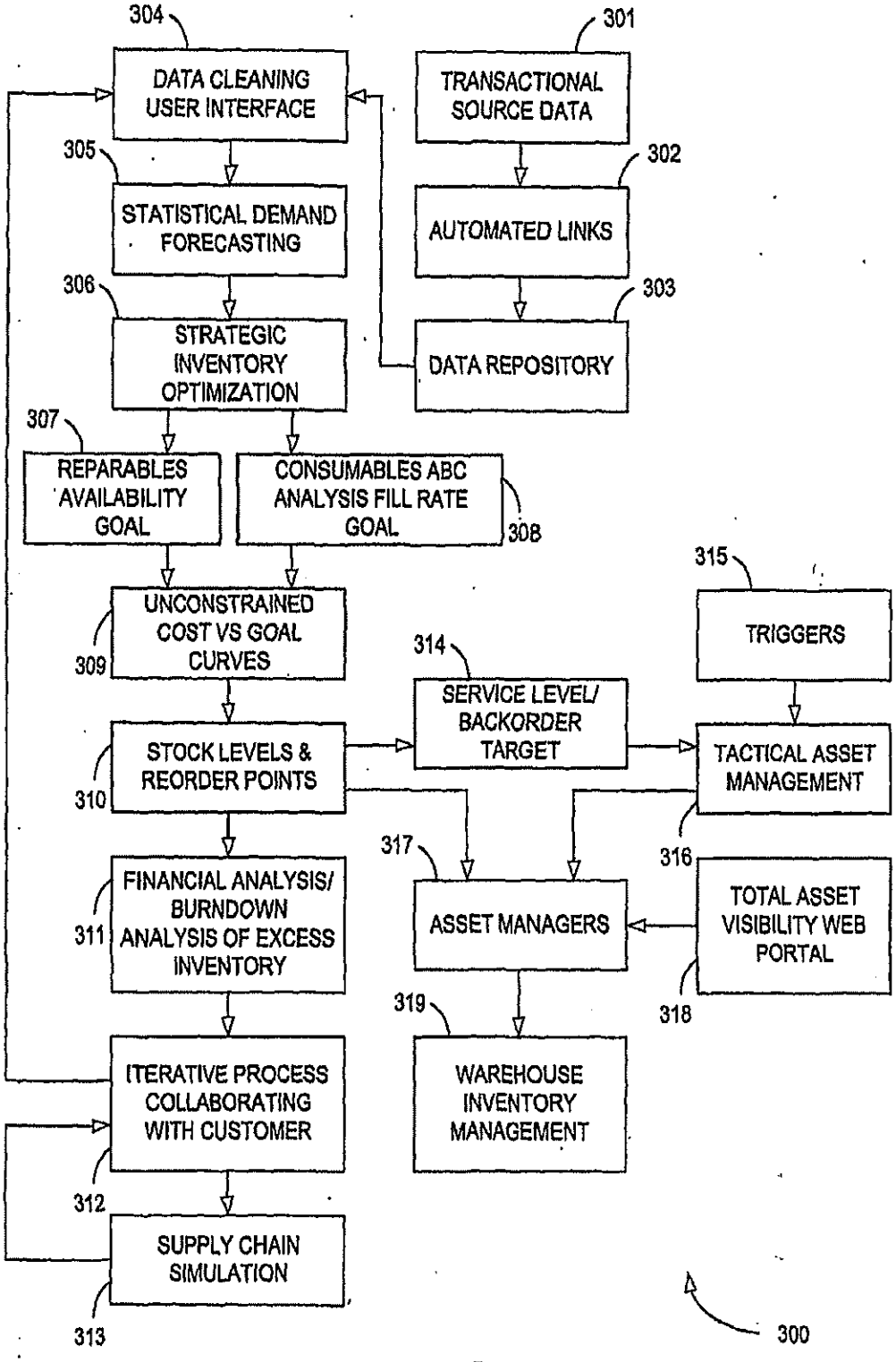

304
DATA CLEANING USER INTERFACE
301
TRANSACTIONAL SOURCE DATA
305
STATISTICAL DEMAND FORECASTING
302
AUTOMATED LINKS
306
STRATEGIC INVENTORY OPTIMIZATION
303
DATA REPOSITORY
307
REPARABLES AVAILABILITY GOAL
CONSUMABLES ABC ANALYSIS FILL RATE GOAL
308
315
TRIGGERS
UNCONSTRAINED COST VS GOAL CURVES
309
314
SERVICE LEVEL/ BACKORDER TARGET
STOCK LEVELS & REORDER POINTS
310
TACTICAL ASSET MANAGEMENT
316
317
FINANCIAL ANALYSIS/ BURNDOWN ANALYSIS OF EXCESS INVENTORY
311
ASSET MANAGERS
TOTAL ASSET VISIBILITY WEB PORTAL
318
319
ITERATIVE PROCESS COLLABORATING WITH CUSTOMER
WAREHOUSE INVENTORY MANAGEMENT
312
SUPPLY CHAIN SIMULATION
313
300

FIGURE 3

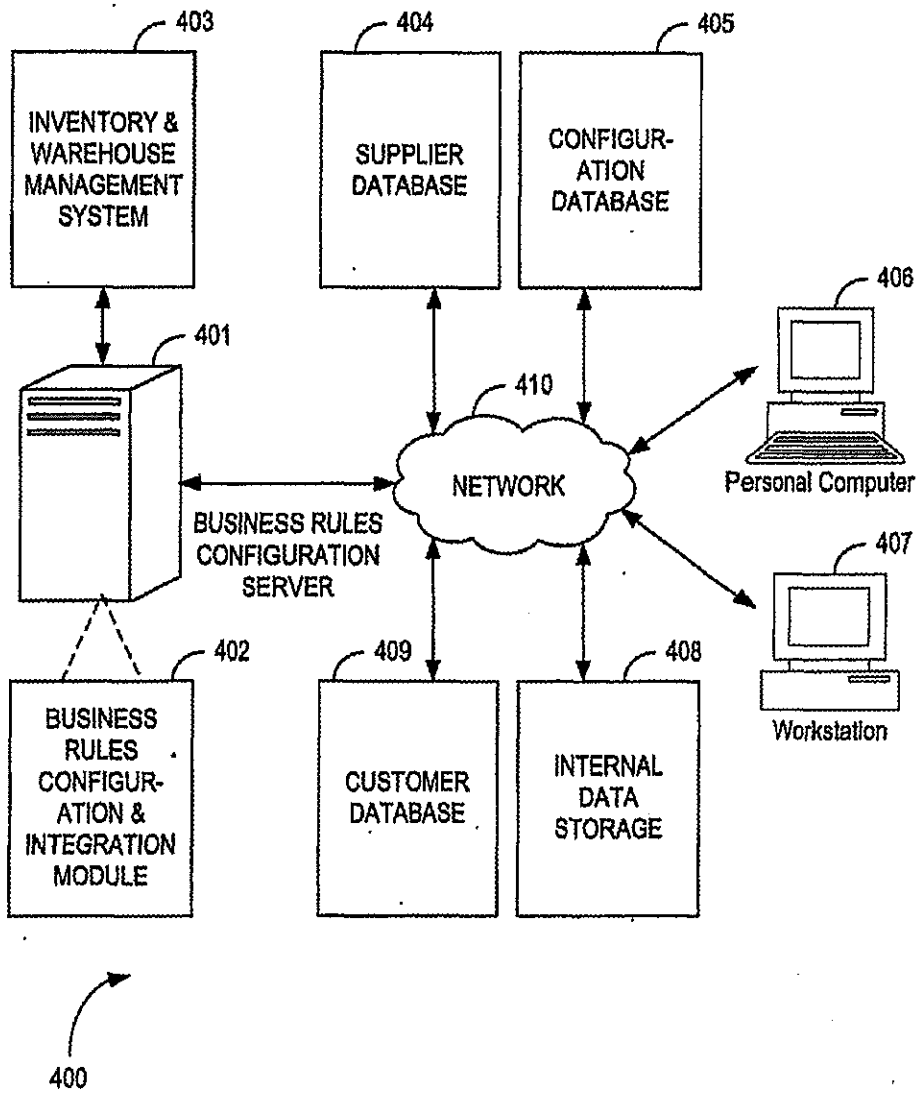

403
INVENTORY & WAREHOUSE MANAGEMENT SYSTEM
404
SUPPLIER DATABASE
405
CONFIGUR-ATION DATABASE
406
Personal Computer
401
410
NETWORK
BUSINESS RULES CONFIGURATION SERVER
407
Workstation
402
BUSINESS RULES CONFIGUR-ATION & INTEGRATION MODULE
409
CUSTOMER DATABASE
408
INTERNAL DATA STORAGE
400

FIGURE 4

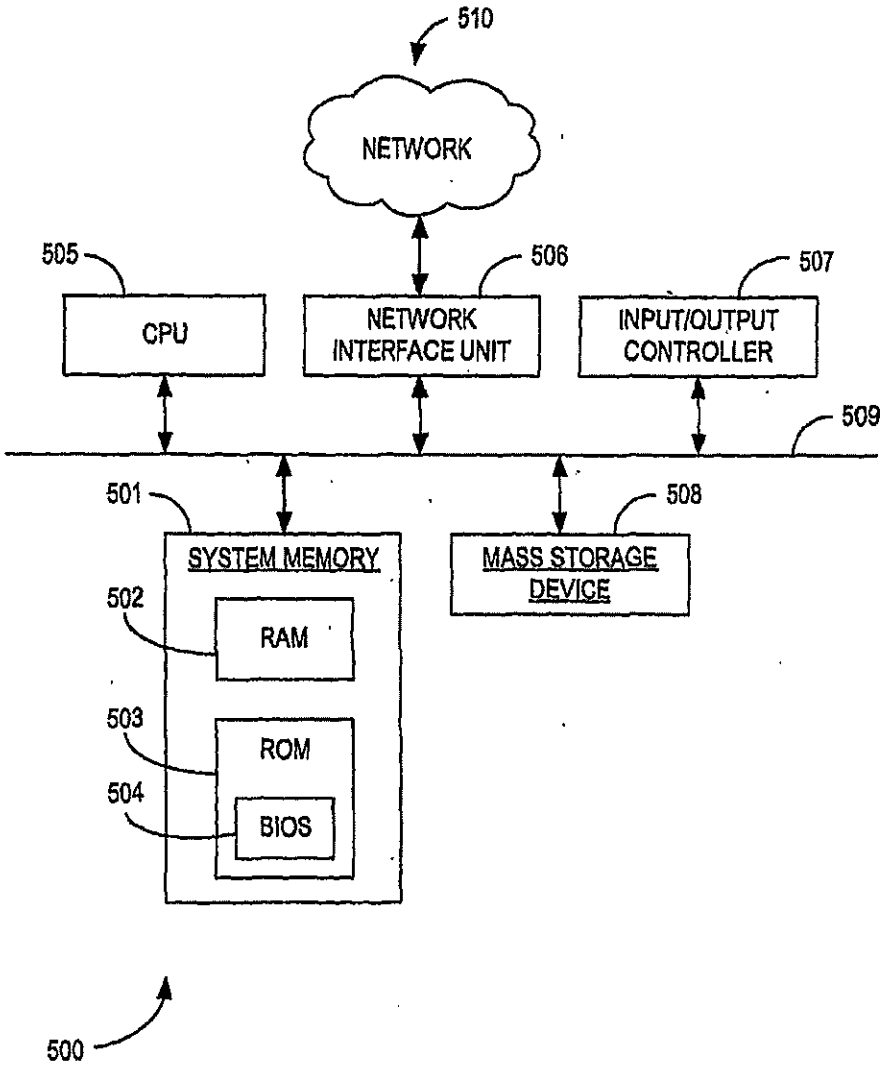

510
NETWORK
505
506
507
CPU
NETWORK INTERFACE UNIT
INPUT/OUTPUT CONTROLLER
509
501
508
SYSTEM MEMORY
MASS STORAGE DEVICE
502
RAM
503
ROM
504
BIOS
500

FIGURE 5

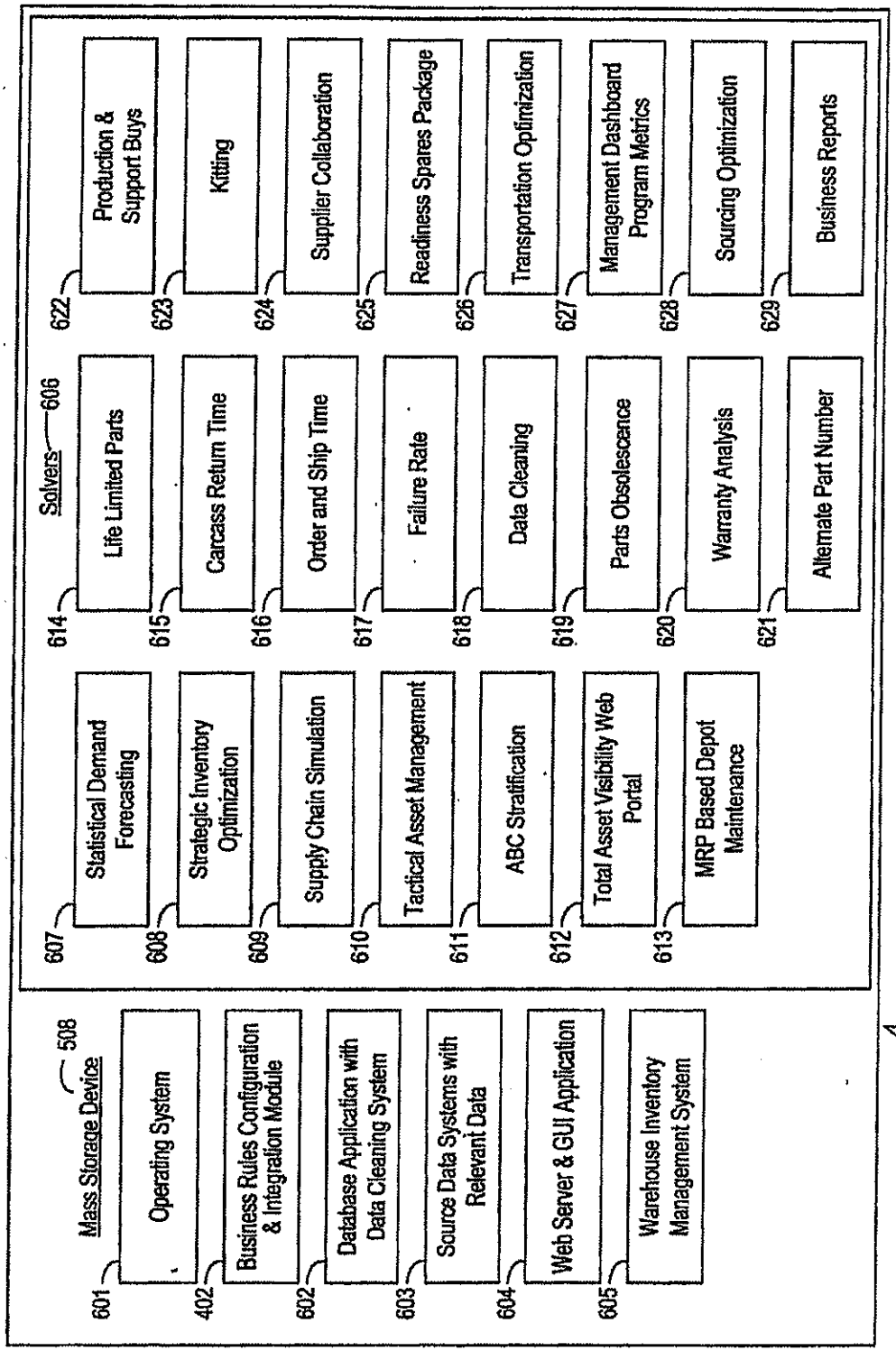

600
Mass Storage Device
508
601 Operating System
402 Business Rules Configuration & Integration Module
602 Database Application with Data Cleaning System
603 Source Data Systems with Relevant Data
604 Web Server & GUI Application
605 Warehouse Inventory Management System
Solvers
606
607 Statistical Demand Forecasting
608 Strategic Inventory Optimization
609 Supply Chain Simulation
610 Tactical Asset Management
611 ABC Stratification
612 Total Asset Visibility Web Portal
613 MRP Based Depot Maintenance
614 Life Limited Parts
615 Carcass Return Time
616 Order and Ship Time
617 Failure Rate
618 Data Cleaning
619 Parts Obsolescence
620 Warranty Analysis
621 Alternate Part Number
622 Production & Support Buys
623 Kitting
624 Supplier Collaboration
625 Readiness Spares Package
626 Transportation Optimization
627 Management Dashboard Program Metrics
628 Sourcing Optimization
629 Business Reports

FIGURE 6

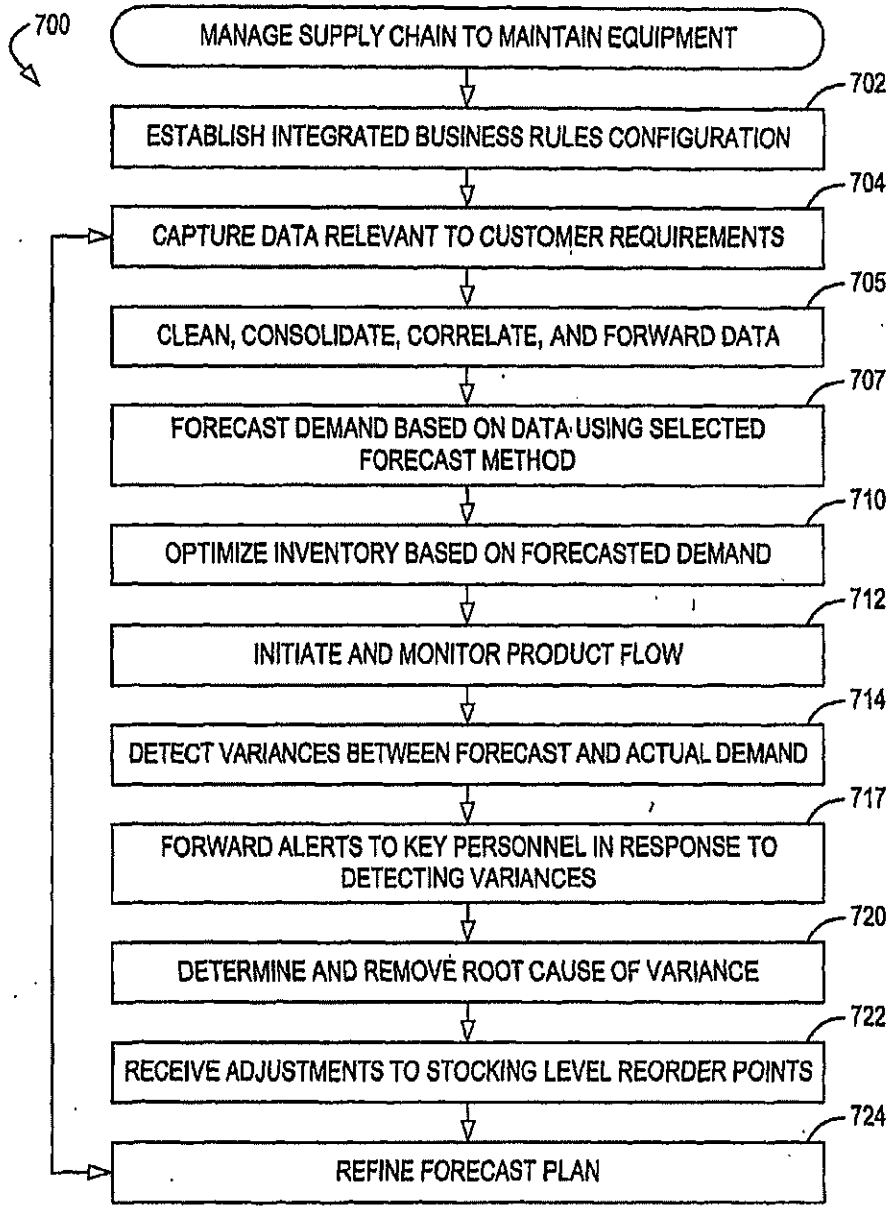

700
MANAGE SUPPLY CHAIN TO MAINTAIN EQUIPMENT
702
ESTABLISH INTEGRATED BUSINESS RULES CONFIGURATION
704
CAPTURE DATA RELEVANT TO CUSTOMER REQUIREMENTS
705
CLEAN, CONSOLIDATE, CORRELATE, AND FORWARD DATA
707
FORECAST DEMAND BASED ON DATA USING SELECTED FORECAST METHOD
710
OPTIMIZE INVENTORY BASED ON FORECASTED DEMAND
712
INITIATE AND MONITOR PRODUCT FLOW
714
DETECT VARIANCES BETWEEN FORECAST AND ACTUAL DEMAND
717
FORWARD ALERTS TO KEY PERSONNEL IN RESPONSE TO DETECTING VARIANCES
720
DETERMINE AND REMOVE ROOT CAUSE OF VARIANCE
722
RECEIVE ADJUSTMENTS TO STOCKING LEVEL REORDER POINTS
724
REFINE FORECAST PLAN

FIGURE 7

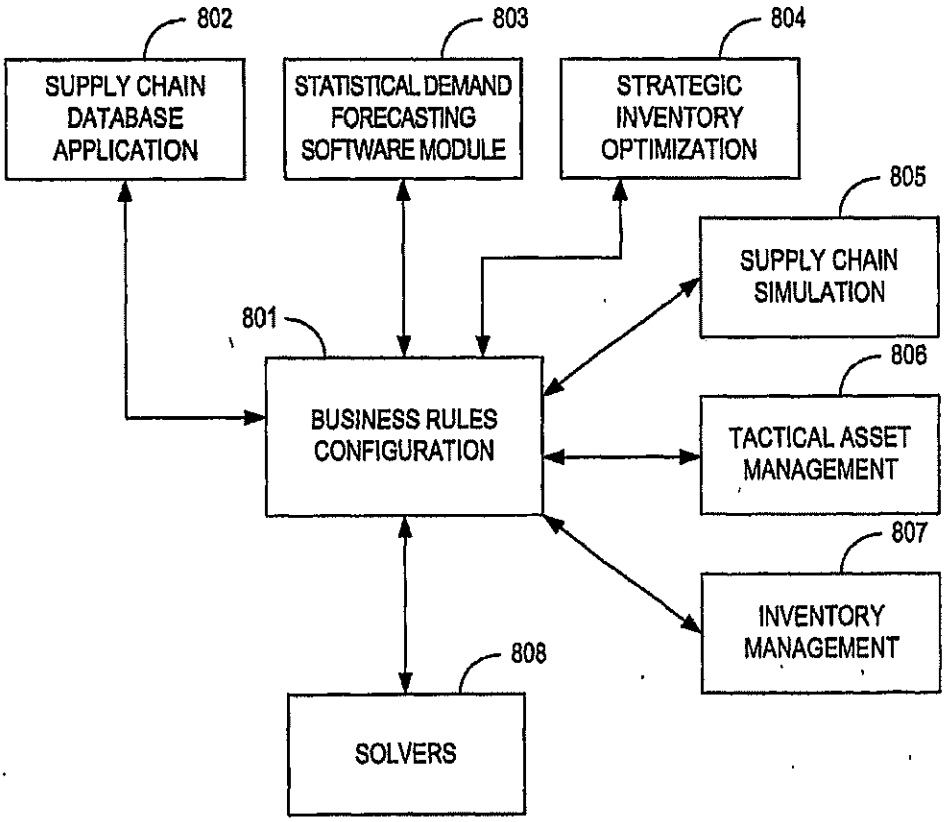

802
SUPPLY CHAIN DATABASE APPLICATION
803
STATISTICAL DEMAND FORECASTING SOFTWARE MODULE
804
STRATEGIC INVENTORY OPTIMIZATION
805
SUPPLY CHAIN SIMULATION
801
BUSINESS RULES CONFIGURATION
806
TACTICAL ASSET MANAGEMENT
807
INVENTORY MANAGEMENT
808
SOLVERS

FIGURE 8

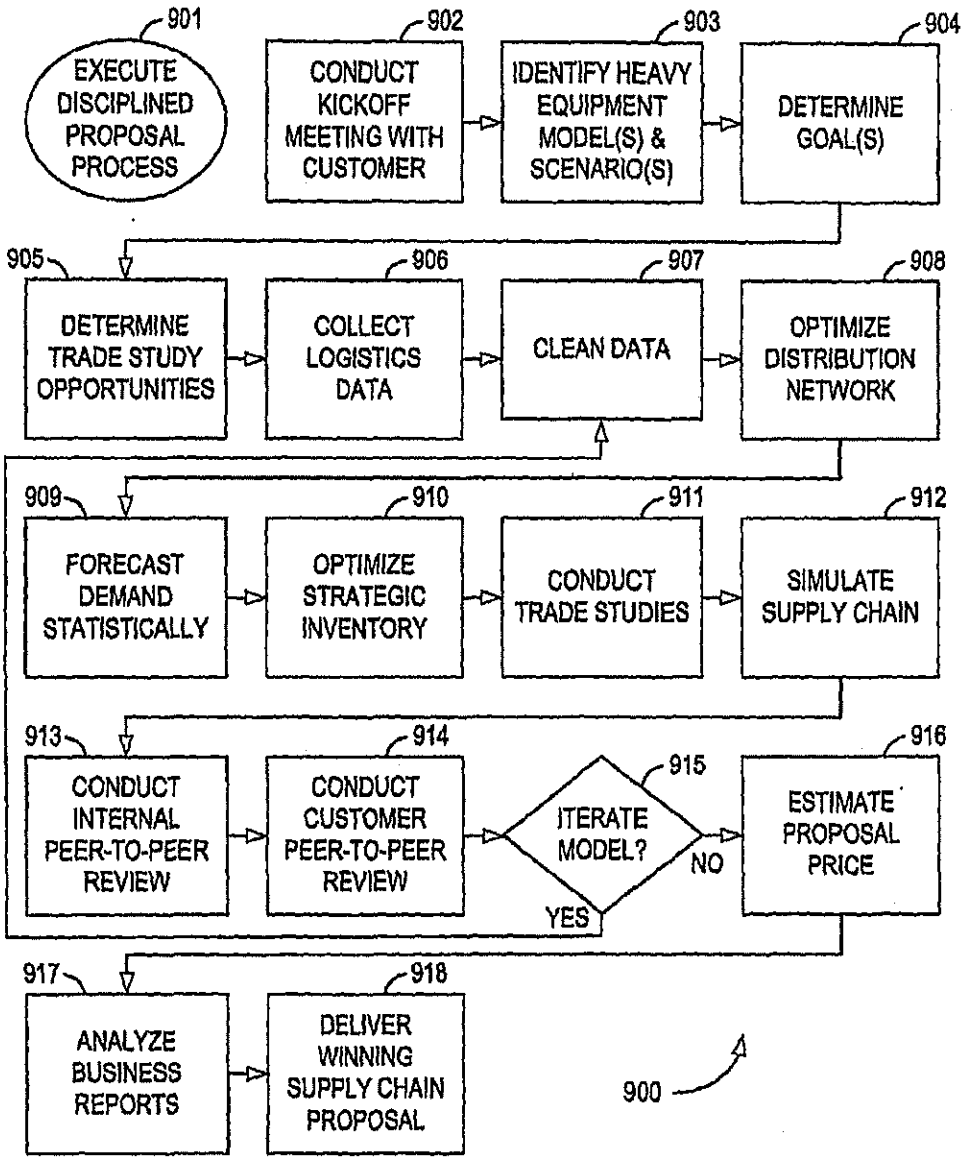

901
EXECUTE DISCIPLINED PROPOSAL PROCESS
902
CONDUCT KICKOFF MEETING WITH CUSTOMER
903
IDENTIFY HEAVY EQUIPMENT MODEL(S) & SCENARIO(S)
904
DETERMINE GOAL(S)
905
DETERMINE TRADE STUDY OPPORTUNITIES
906
COLLECT LOGISTICS DATA
907
CLEAN DATA
908
OPTIMIZE DISTRIBUTION NETWORK
909
FORECAST DEMAND STATISTICALLY
910
OPTIMIZE STRATEGIC INVENTORY
911
CONDUCT TRADE STUDIES
912
SIMULATE SUPPLY CHAIN
913
CONDUCT INTERNAL PEER-TO-PEER REVIEW
914
CONDUCT CUSTOMER PEER-TO-PEER REVIEW
915
ITERATE MODEL?
NO
YES
916
ESTIMATE PROPOSAL PRICE
917
ANALYZE BUSINESS REPORTS
918
DELIVER WINNING SUPPLY CHAIN PROPOSAL
900

FIGURE 9

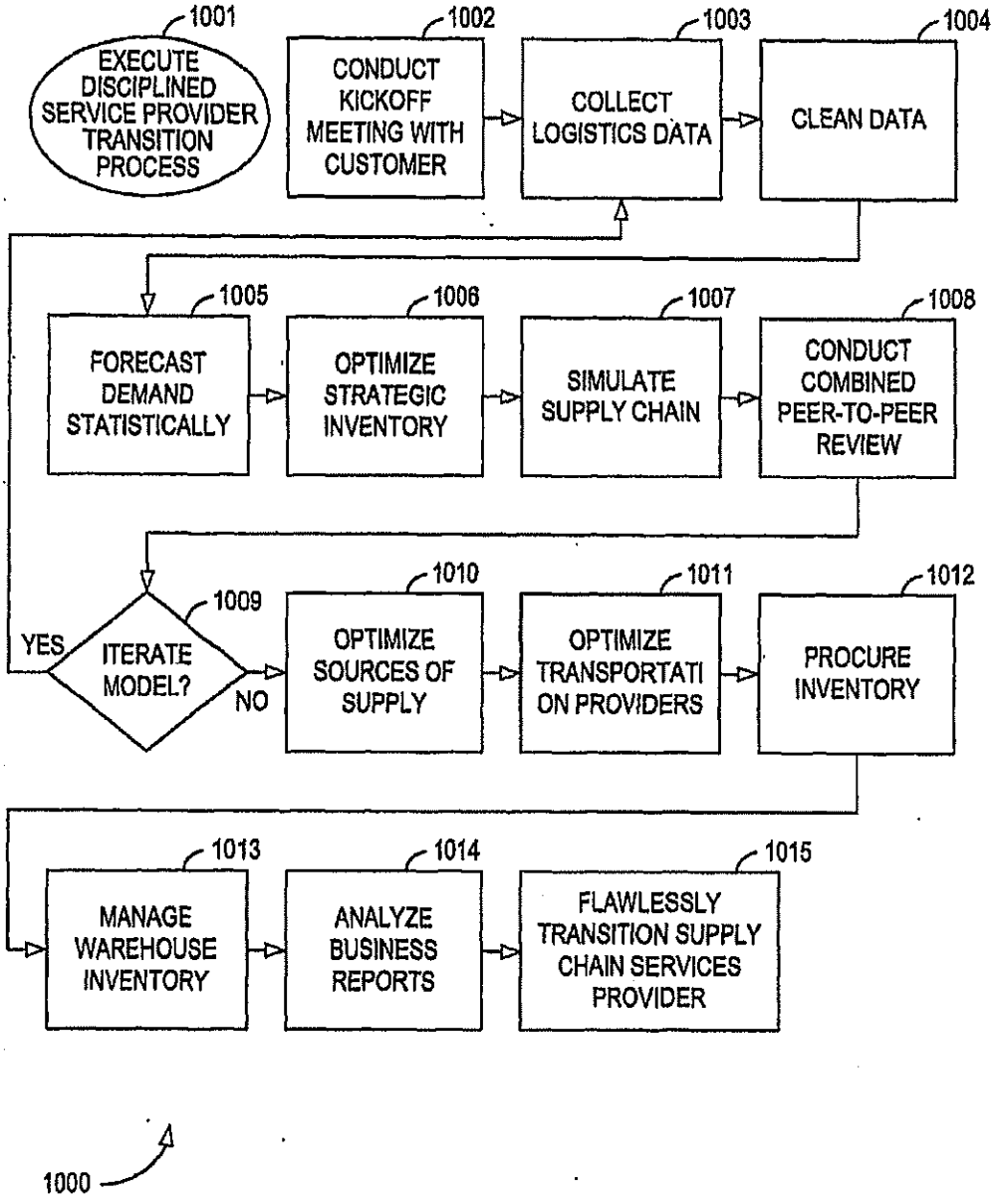

1001
EXECUTE DISCIPLINED SERVICE PROVIDER TRANSITION PROCESS
1002
CONDUCT KICKOFF MEETING WITH CUSTOMER
1003
COLLECT LOGISTICS DATA
1004
CLEAN DATA
1005
FORECAST DEMAND STATISTICALLY
1006
OPTIMIZE STRATEGIC INVENTORY
1007
SIMULATE SUPPLY CHAIN
1008
CONDUCT COMBINED PEER-TO-PEER REVIEW
1009
ITERATE MODEL?
YES
NO
1010
OPTIMIZE SOURCES OF SUPPLY
1011
OPTIMIZE TRANSPORTATI ON PROVIDERS
1012
PROCURE INVENTORY
1013
MANAGE WAREHOUSE INVENTORY
1014
ANALYZE BUSINESS REPORTS
1015
FLAWLESSLY TRANSITION SUPPLY CHAIN SERVICES PROVIDER
1000

FIGURE 10

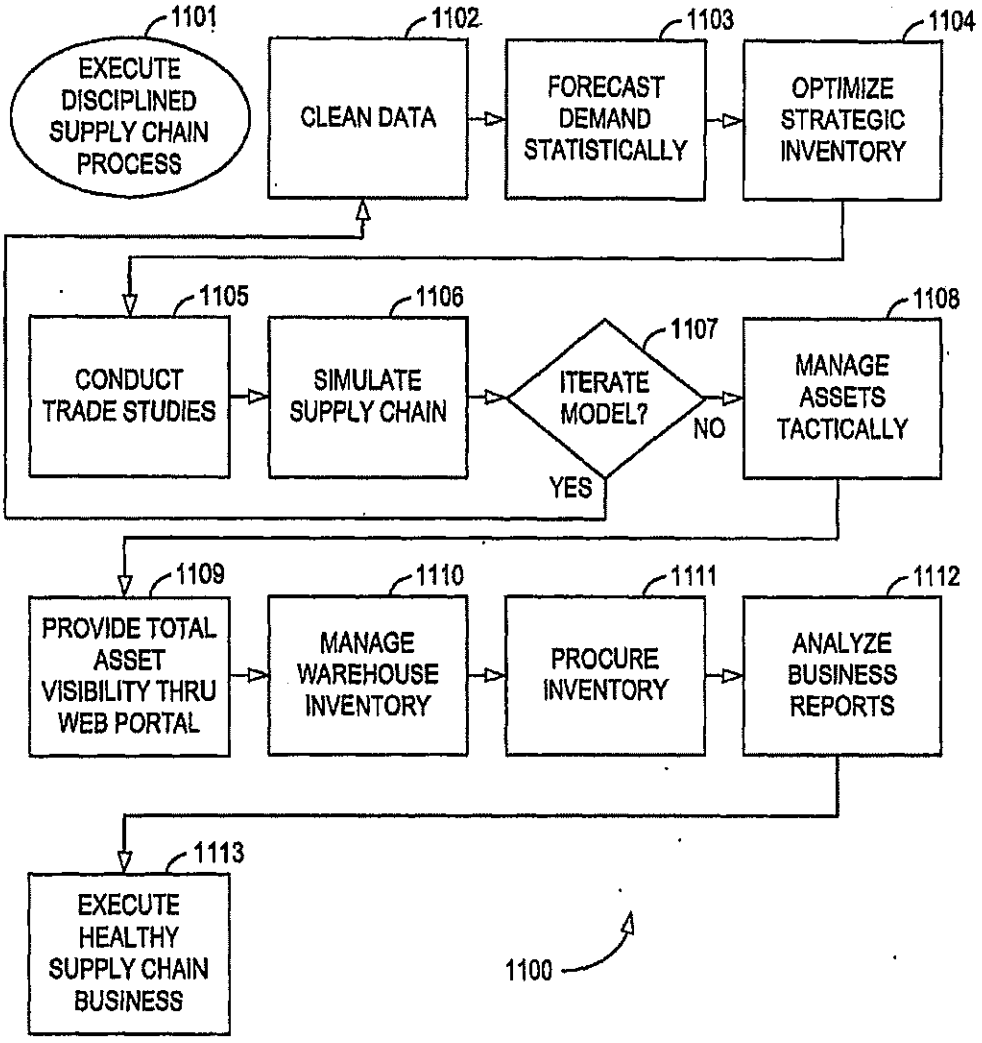

1101
EXECUTE DISCIPLINED SUPPLY CHAIN PROCESS
1102
CLEAN DATA
1103
FORECAST DEMAND STATISTICALLY
1104
OPTIMIZE STRATEGIC INVENTORY
1105
CONDUCT TRADE STUDIES
1106
SIMULATE SUPPLY CHAIN
1107
ITERATE MODEL?
NO
YES
1108
MANAGE ASSETS TACTICALLY
1109
PROVIDE TOTAL ASSET VISIBILITY THRU WEB PORTAL
1110
MANAGE WAREHOUSE INVENTORY
1111
PROCURE INVENTORY
1112
ANALYZE BUSINESS REPORTS
1113
EXECUTE HEALTHY SUPPLY CHAIN BUSINESS
1100

FIGURE 11