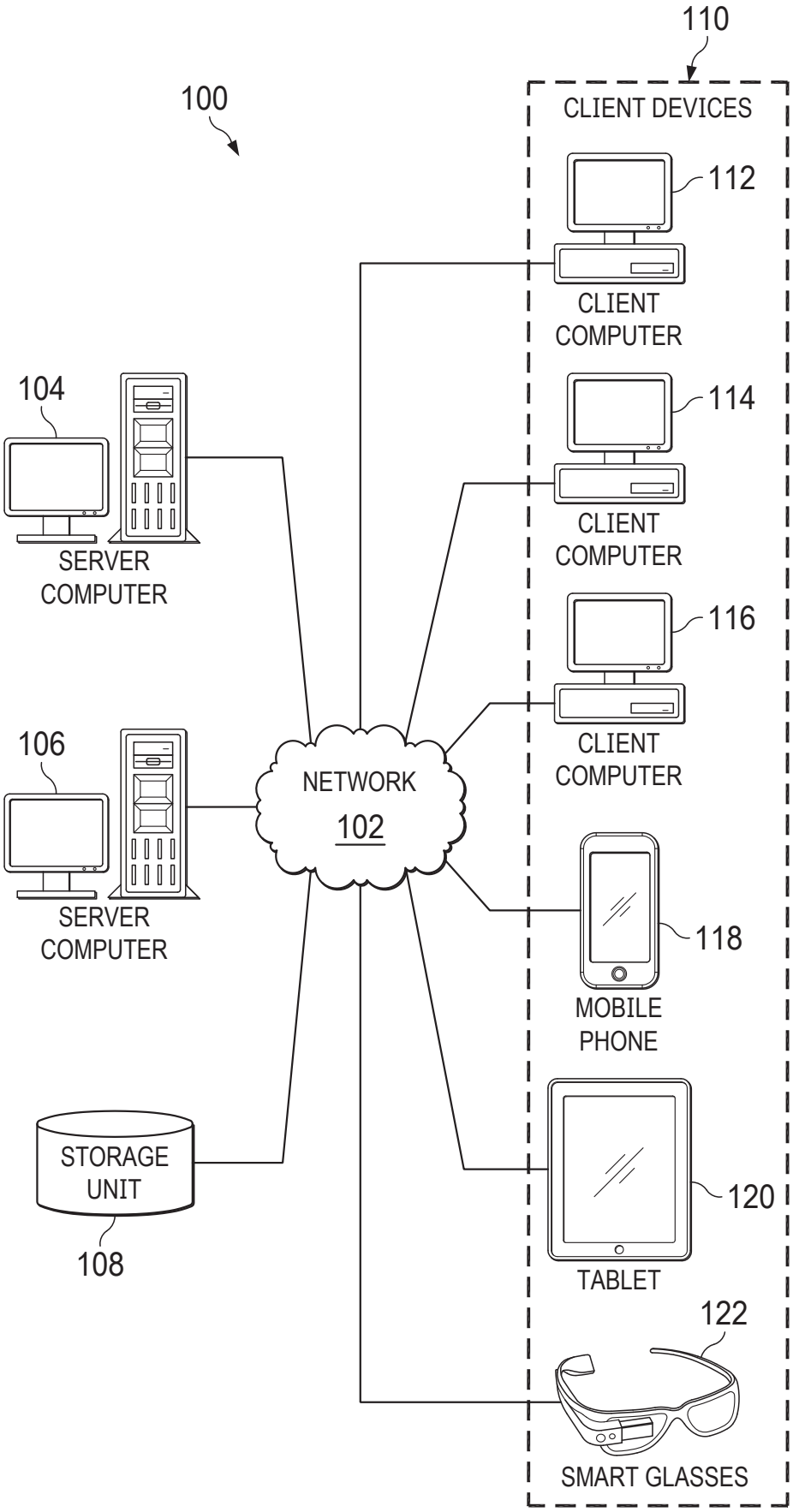
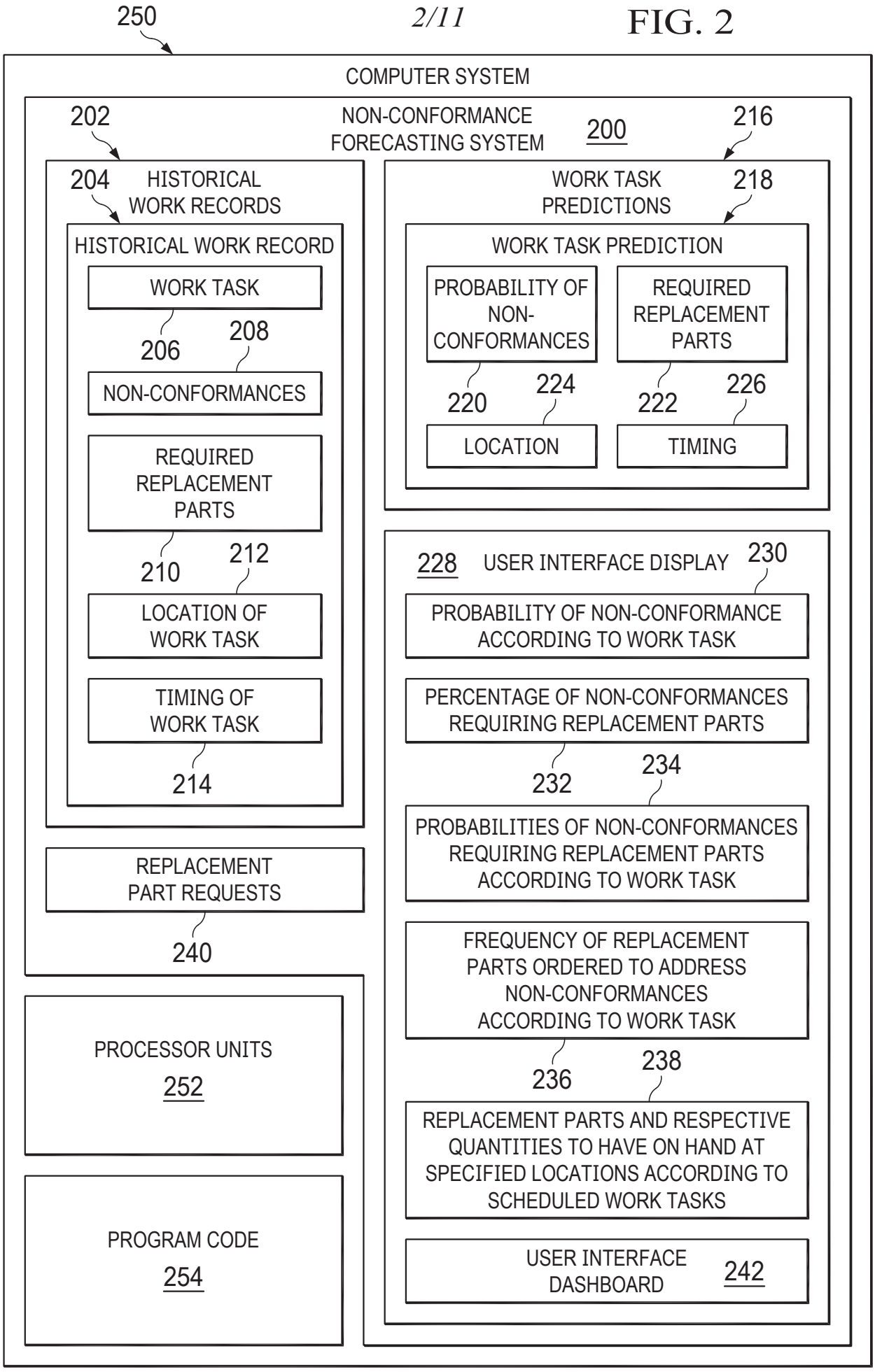

100
110
CLIENT DEVICES
112
CLIENT COMPUTER
114
CLIENT COMPUTER
116
CLIENT COMPUTER
104
SERVER COMPUTER
106
SERVER COMPUTER
NETWORK
102
118
MOBILE PHONE
STORAGE UNIT
108
120
TABLET
122
SMART GLASSES

FIG. 1

FIG. 2


250
COMPUTER SYSTEM
202
NON-CONFORMANCE FORECASTING SYSTEM
200
216
204
HISTORICAL WORK RECORDS
WORK TASK PREDICTIONS
218
HISTORICAL WORK RECORD
WORK TASK
206
208
NON-CONFORMANCES
REQUIRED REPLACEMENT PARTS
210
212
LOCATION OF WORK TASK
TIMING OF WORK TASK
214
WORK TASK PREDICTION
PROBABILITY OF NON-CONFORMANCES
REQUIRED REPLACEMENT PARTS
220
224
222
226
LOCATION
TIMING
228
USER INTERFACE DISPLAY
230
PROBABILITY OF NON-CONFORMANCE ACCORDING TO WORK TASK
PERCENTAGE OF NON-CONFORMANCES REQUIRING REPLACEMENT PARTS
232
234
PROBABILITIES OF NON-CONFORMANCES REQUIRING REPLACEMENT PARTS ACCORDING TO WORK TASK
FREQUENCY OF REPLACEMENT PARTS ORDERED TO ADDRESS NON-CONFORMANCES ACCORDING TO WORK TASK
236
238
REPLACEMENT PARTS AND RESPECTIVE QUANTITIES TO HAVE ON HAND AT SPECIFIED LOCATIONS ACCORDING TO SCHEDULED WORK TASKS
USER INTERFACE DASHBOARD
242
REPLACEMENT PART REQUESTS
240
PROCESSOR UNITS
252
PROGRAM CODE
254

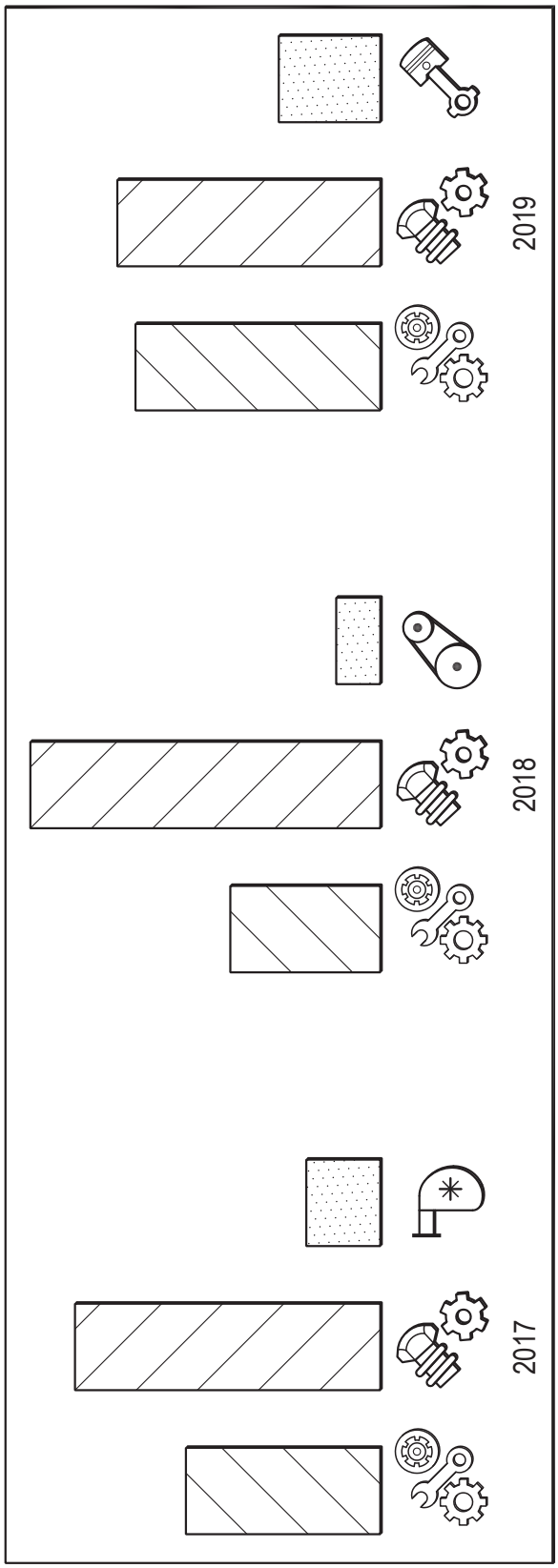


FIG. 3
(PRIOR ART)

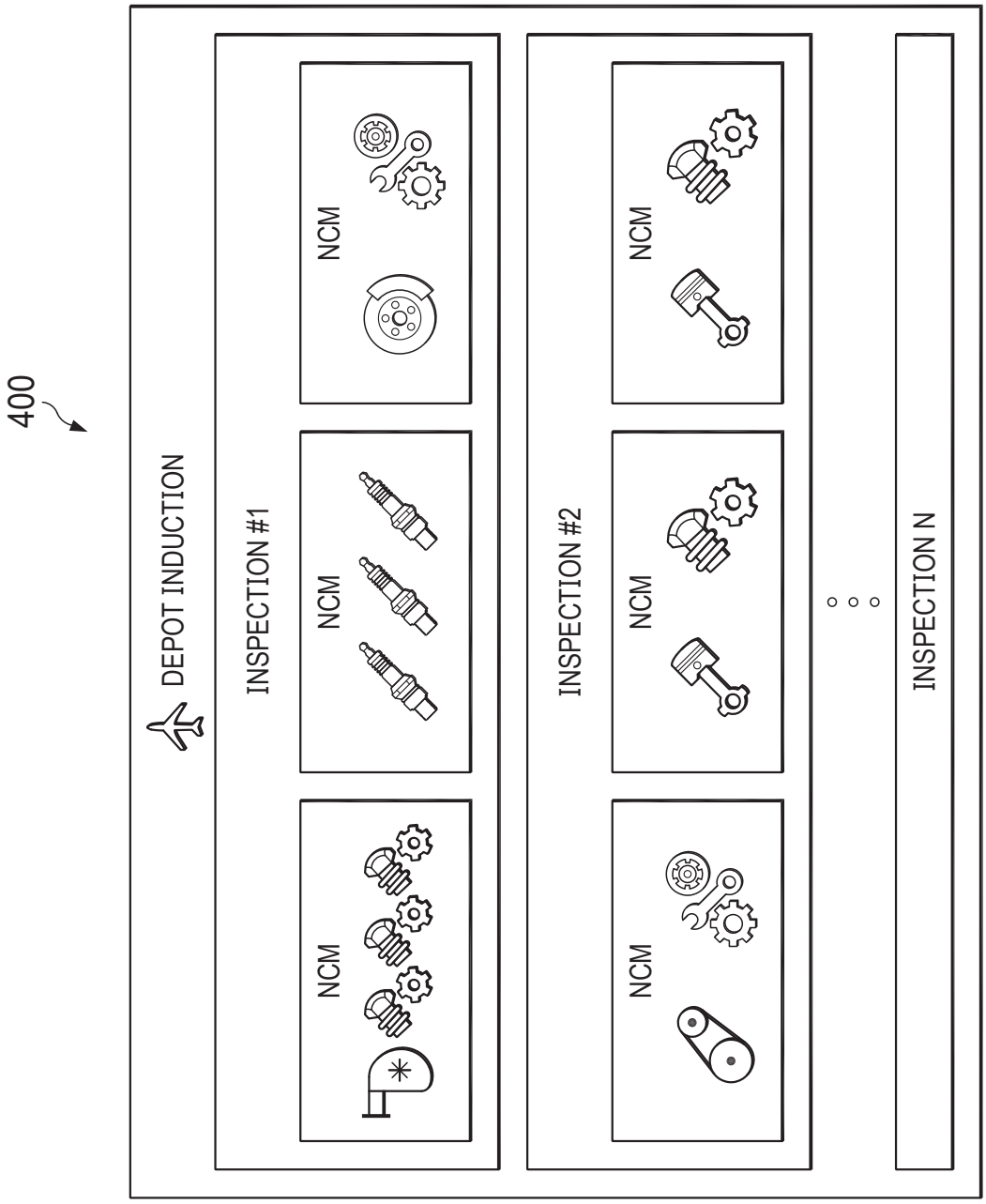

400
DEPOT INDUCTION
INSPECTION #1
NCM
NCM
NCM
INSPECTION #2
NCM
NCM
INSPECTION N

FIG. 4

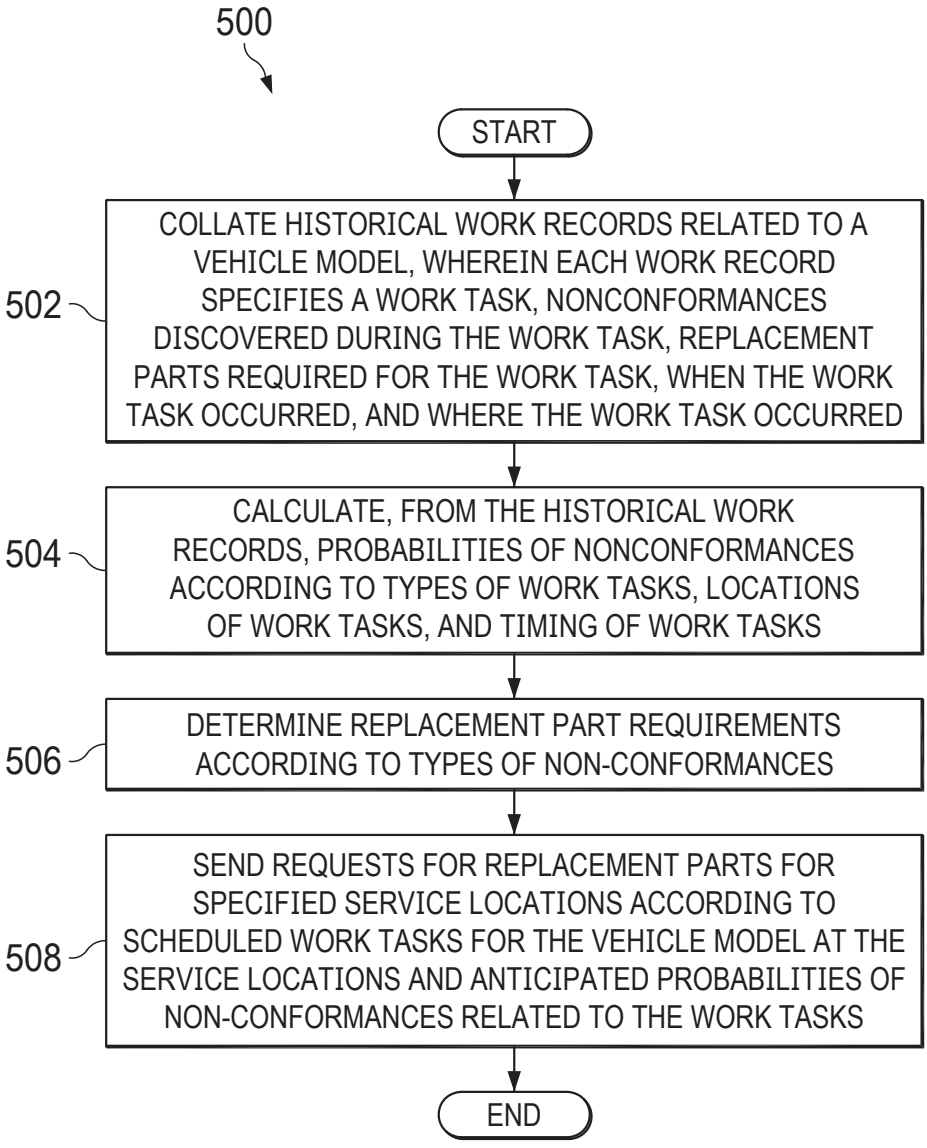

500
START
COLLATE HISTORICAL WORK RECORDS RELATED TO A VEHICLE MODEL, WHEREIN EACH WORK RECORD SPECIFIES A WORK TASK, NONCONFORMANCES DISCOVERED DURING THE WORK TASK, REPLACEMENT PARTS REQUIRED FOR THE WORK TASK, WHEN THE WORK TASK OCCURRED, AND WHERE THE WORK TASK OCCURRED
502
CALCULATE, FROM THE HISTORICAL WORK RECORDS, PROBABILITIES OF NONCONFORMANCES ACCORDING TO TYPES OF WORK TASKS, LOCATIONS OF WORK TASKS, AND TIMING OF WORK TASKS
504
DETERMINE REPLACEMENT PART REQUIREMENTS ACCORDING TO TYPES OF NON-CONFORMANCES
506
SEND REQUESTS FOR REPLACEMENT PARTS FOR SPECIFIED SERVICE LOCATIONS ACCORDING TO SCHEDULED WORK TASKS FOR THE VEHICLE MODEL AT THE SERVICE LOCATIONS AND ANTICIPATED PROBABILITIES OF NON-CONFORMANCES RELATED TO THE WORK TASKS
508
END

FIG. 5

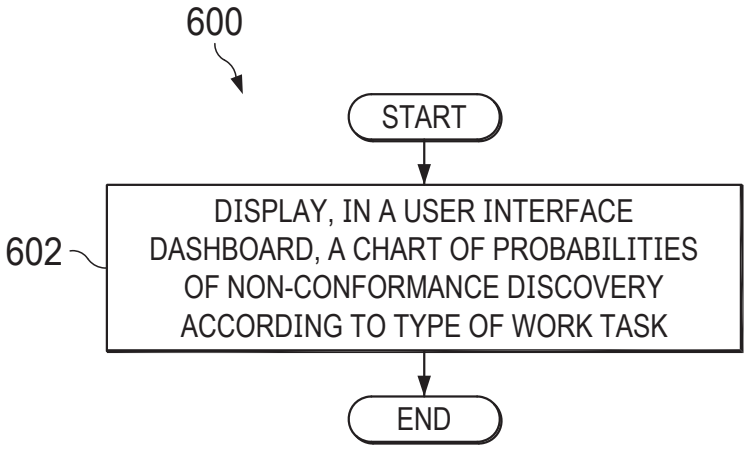


FIG. 6

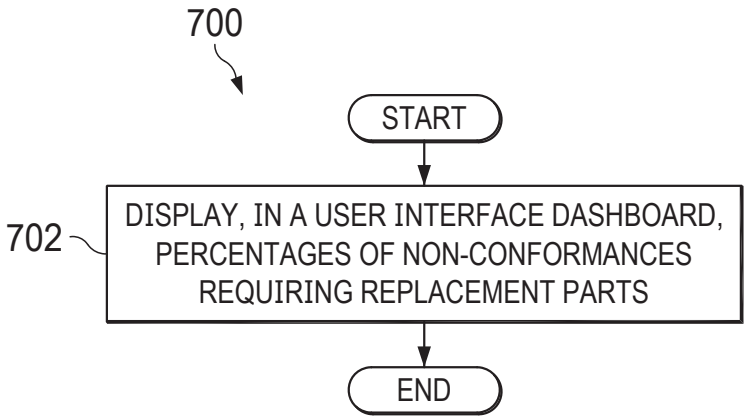


FIG. 7

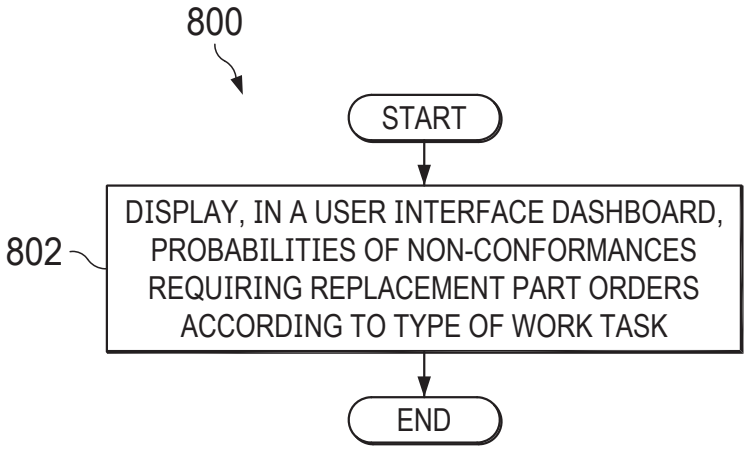


FIG. 8

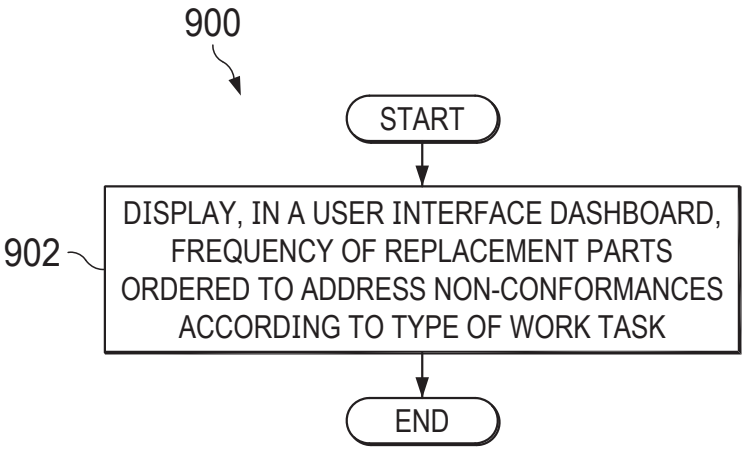

900
START
DISPLAY, IN A USER INTERFACE DASHBOARD, FREQUENCY OF REPLACEMENT PARTS ORDERED TO ADDRESS NON-CONFORMANCES ACCORDING TO TYPE OF WORK TASK
902
END

FIG. 9

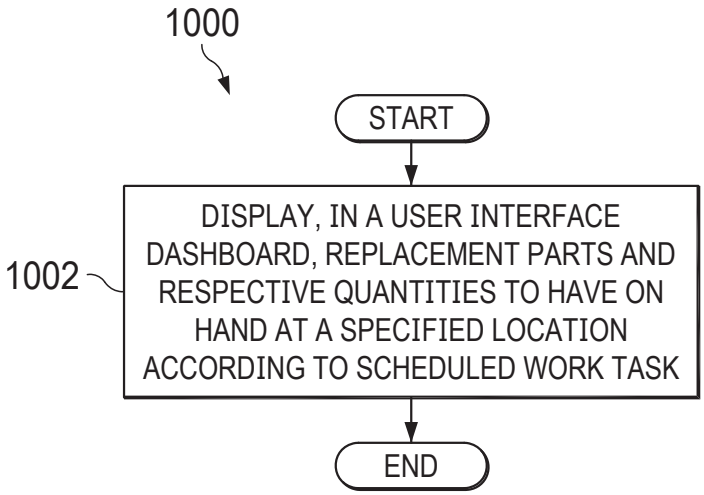

1000
START
DISPLAY, IN A USER INTERFACE DASHBOARD, REPLACEMENT PARTS AND RESPECTIVE QUANTITIES TO HAVE ON HAND AT A SPECIFIED LOCATION ACCORDING TO SCHEDULED WORK TASK
1002
END

FIG. 10

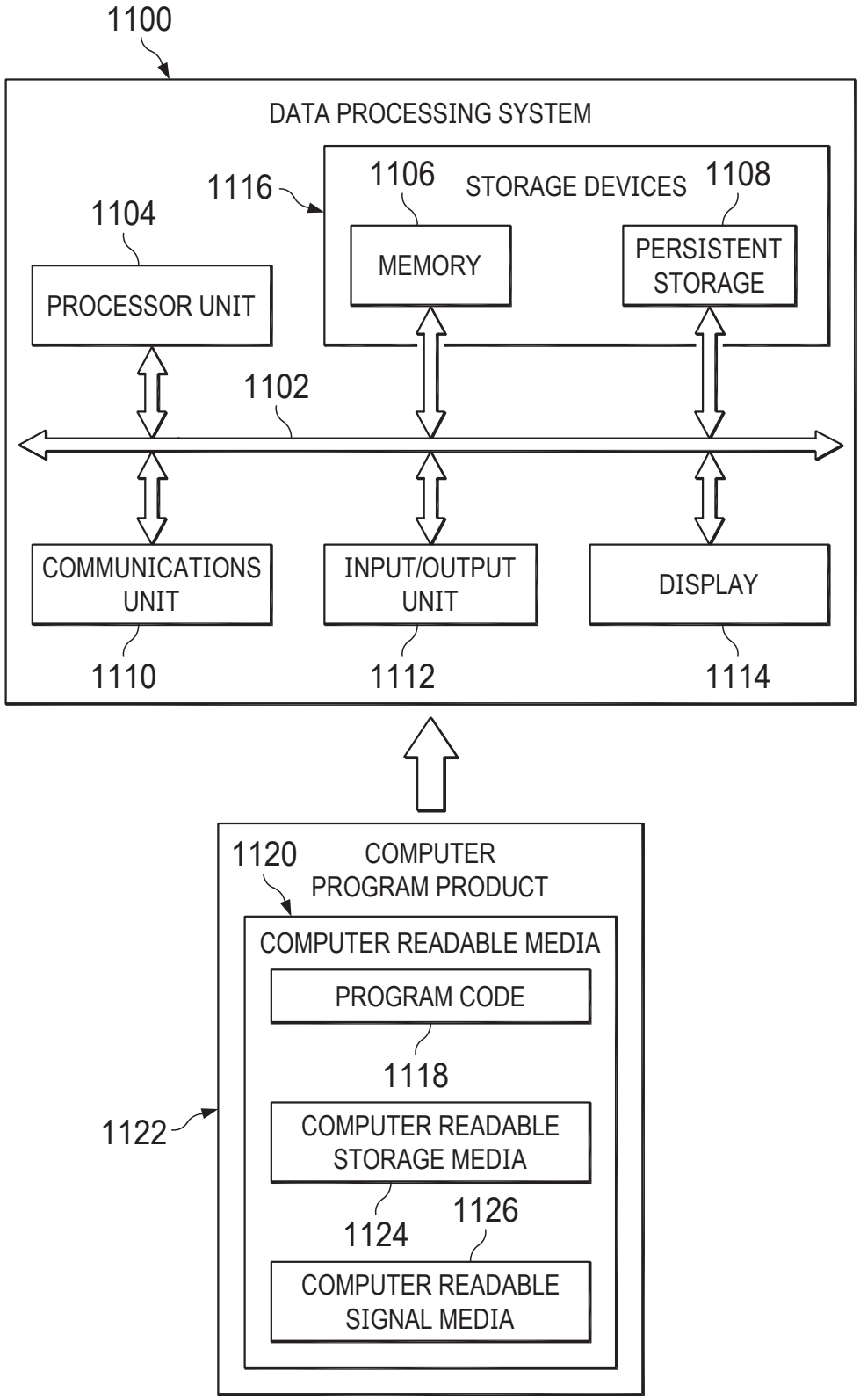

1100
DATA PROCESSING SYSTEM
1116
1106
STORAGE DEVICES
1108
1104
MEMORY
PERSISTENT STORAGE
PROCESSOR UNIT
1102
COMMUNICATIONS UNIT
INPUT/OUTPUT UNIT
DISPLAY
1110
1112
1114
1120
COMPUTER PROGRAM PRODUCT
COMPUTER READABLE MEDIA
PROGRAM CODE
1118
1122
COMPUTER READABLE STORAGE MEDIA
1124
1126
COMPUTER READABLE SIGNAL MEDIA

FIG. 11

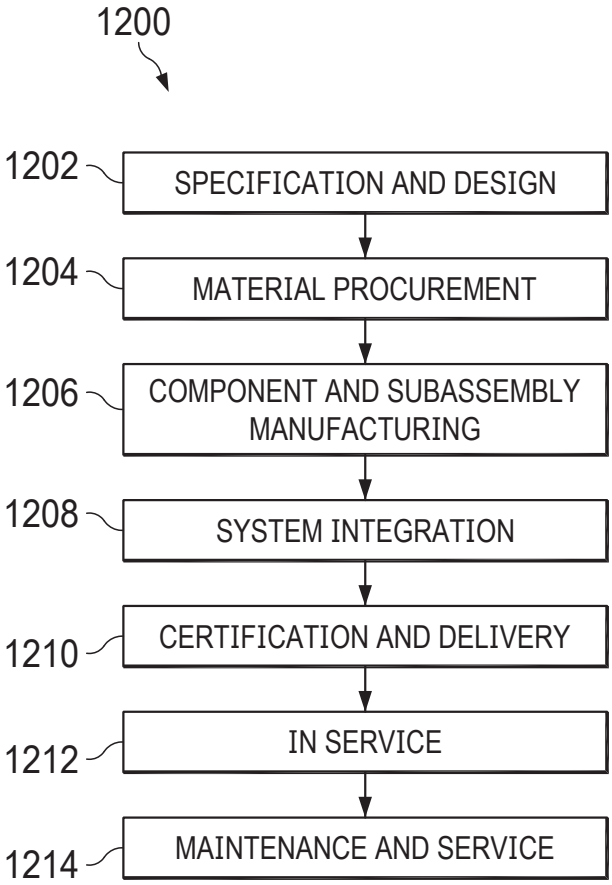

1200
1202
SPECIFICATION AND DESIGN
1204
MATERIAL PROCUREMENT
1206
COMPONENT AND SUBASSEMBLY MANUFACTURING
1208
SYSTEM INTEGRATION
1210
CERTIFICATION AND DELIVERY
1212
IN SERVICE
1214
MAINTENANCE AND SERVICE

FIG. 12

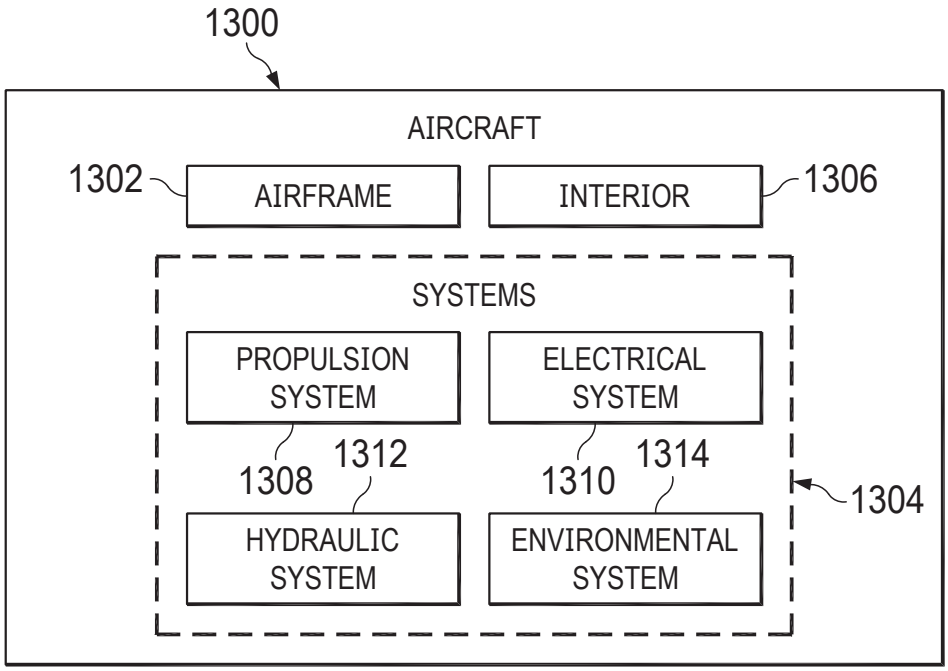

1300
AIRCRAFT
1302
AIRFRAME
INTERIOR
1306
SYSTEMS
PROPULSION SYSTEM
ELECTRICAL SYSTEM
1308
1312
1310
1314
1304
HYDRAULIC SYSTEM
ENVIRONMENTAL SYSTEM

FIG. 13

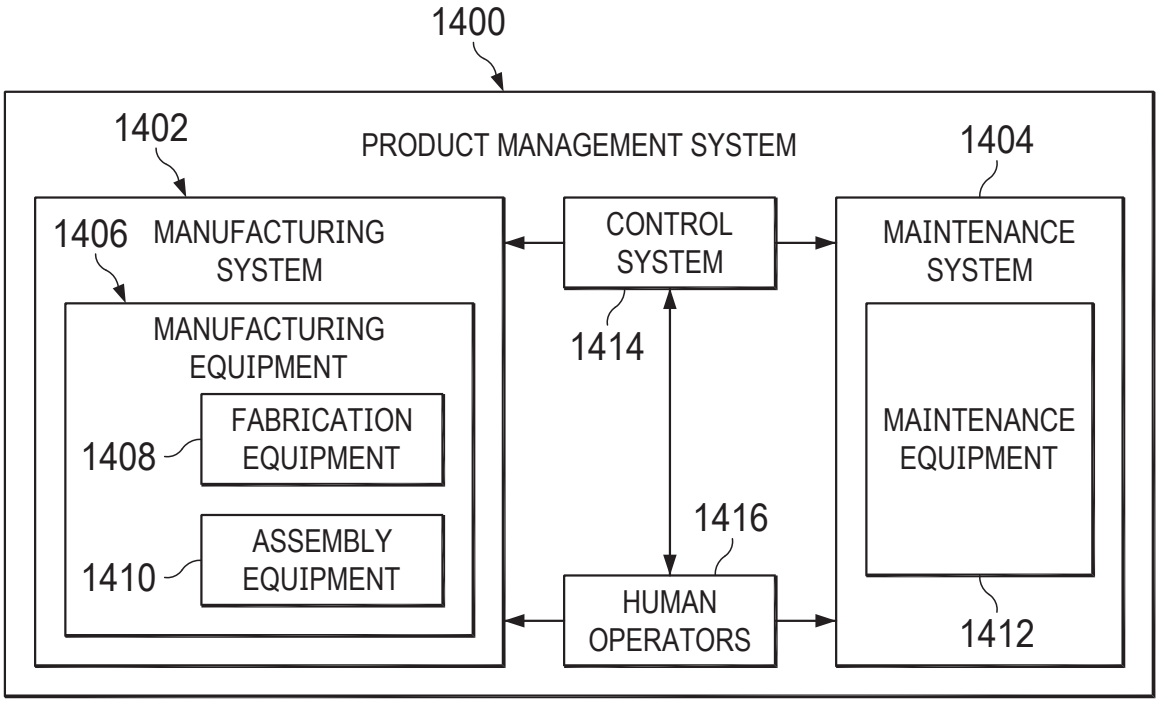

1400
1402
PRODUCT MANAGEMENT SYSTEM
1404
1406
MANUFACTURING SYSTEM
CONTROL SYSTEM
MAINTENANCE SYSTEM
MANUFACTURING EQUIPMENT
1414
MAINTENANCE EQUIPMENT
1408
FABRICATION EQUIPMENT
1416
1410
ASSEMBLY EQUIPMENT
HUMAN OPERATORS
1412

FIG. 14

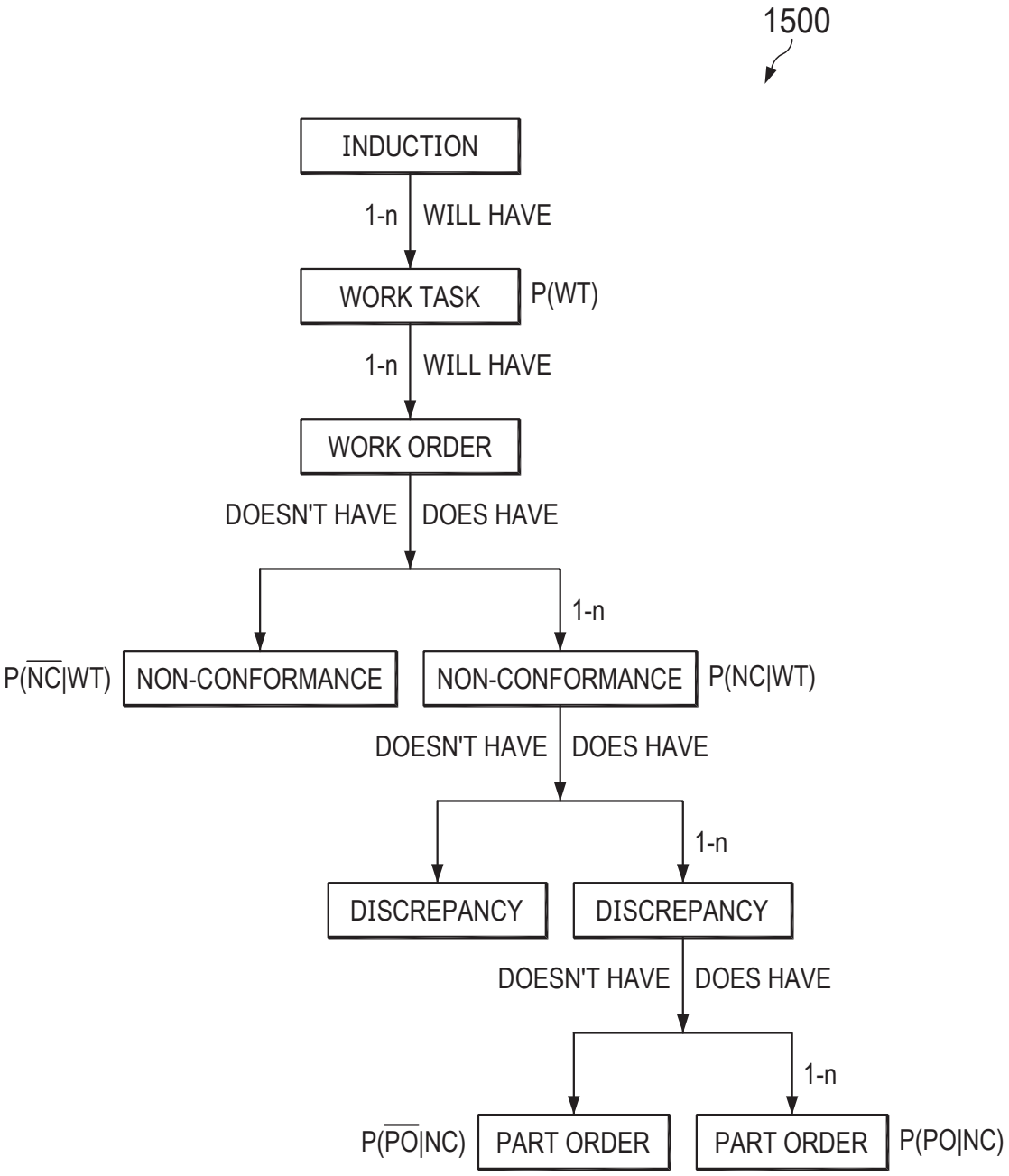

1500
INDUCTION
1-n
WILL HAVE
WORK TASK
P(WT)
1-n
WILL HAVE
WORK ORDER
DOESN'T HAVE
DOES HAVE
1-n
P(NC|WT)
NON-CONFORMANCE
NON-CONFORMANCE
DOESN'T HAVE
DOES HAVE
1-n
DISCREPANCY
DISCREPANCY
DOESN'T HAVE
DOES HAVE
1-n
P(PO|NC)
PART ORDER
PART ORDER

FIG. 15