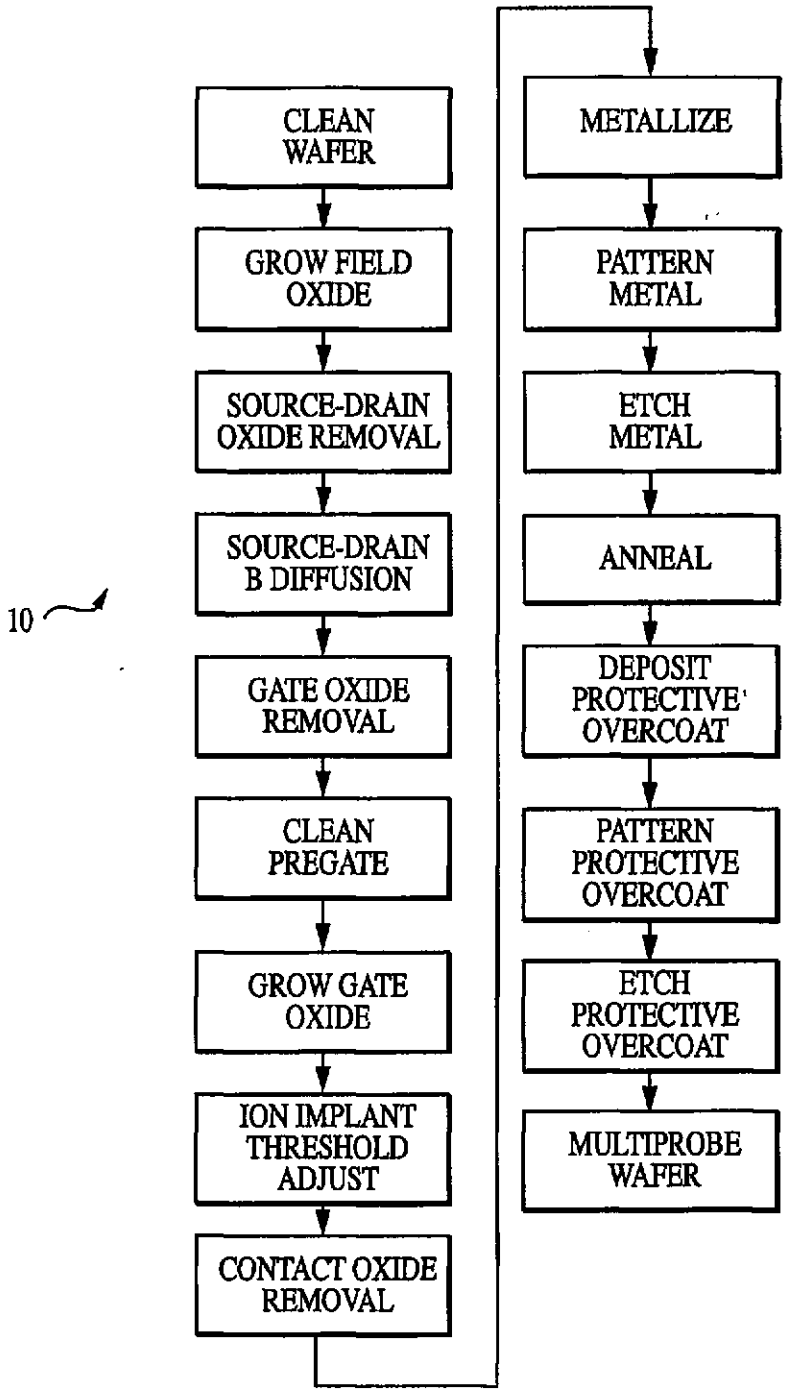


FIG. 1
PRIOR ART

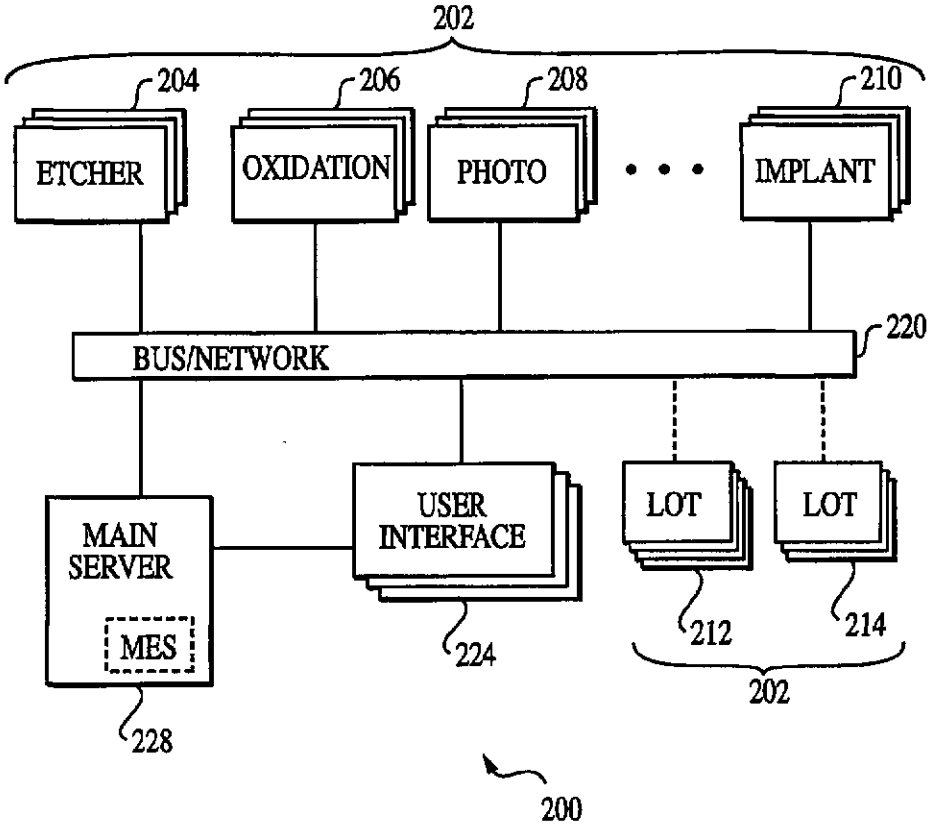

202
204
206
208
210
ETCHER
OXIDATION
PHOTO
IMPLANT
220
BUS/NETWORK
MAIN SERVER
MES
228
USER INTERFACE
224
LOT
LOT
212
214
202
200

FIG. 2

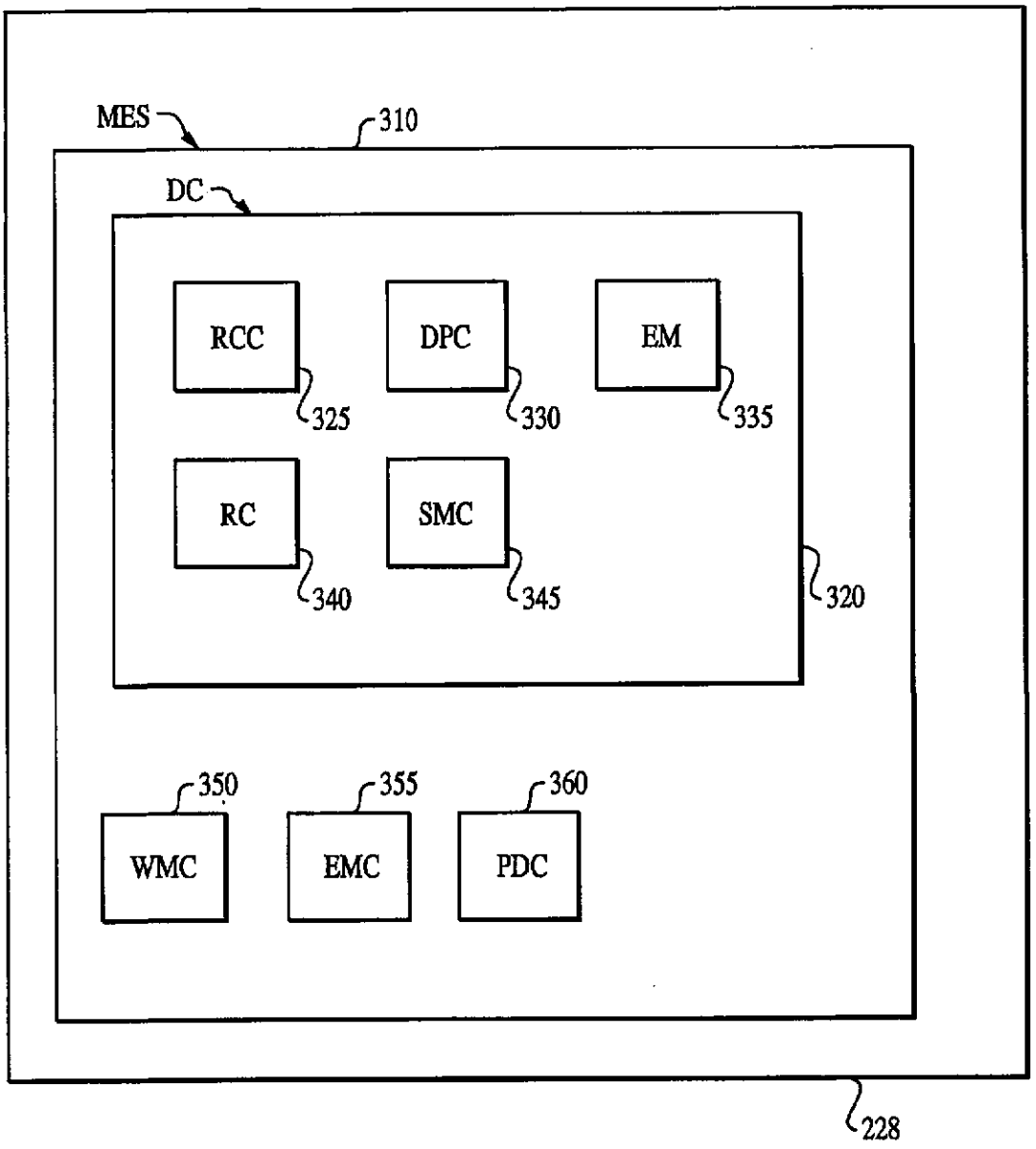

MES
310
DC
RCC
325
DPC
330
EM
335
RC
340
SMC
345
320
350
WMC
355
EMC
360
PDC
228

FIG. 3

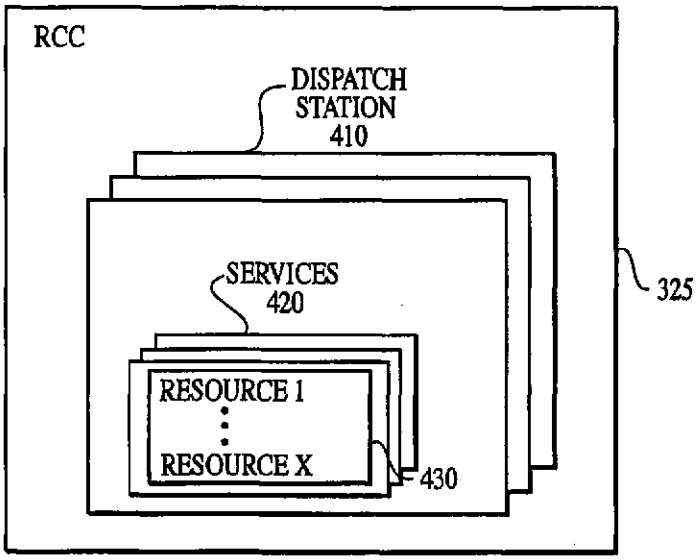

RCC
DISPATCH STATION 410
SERVICES 420
RESOURCE 1
RESOURCE X
430
325

FIG. 4

5/14

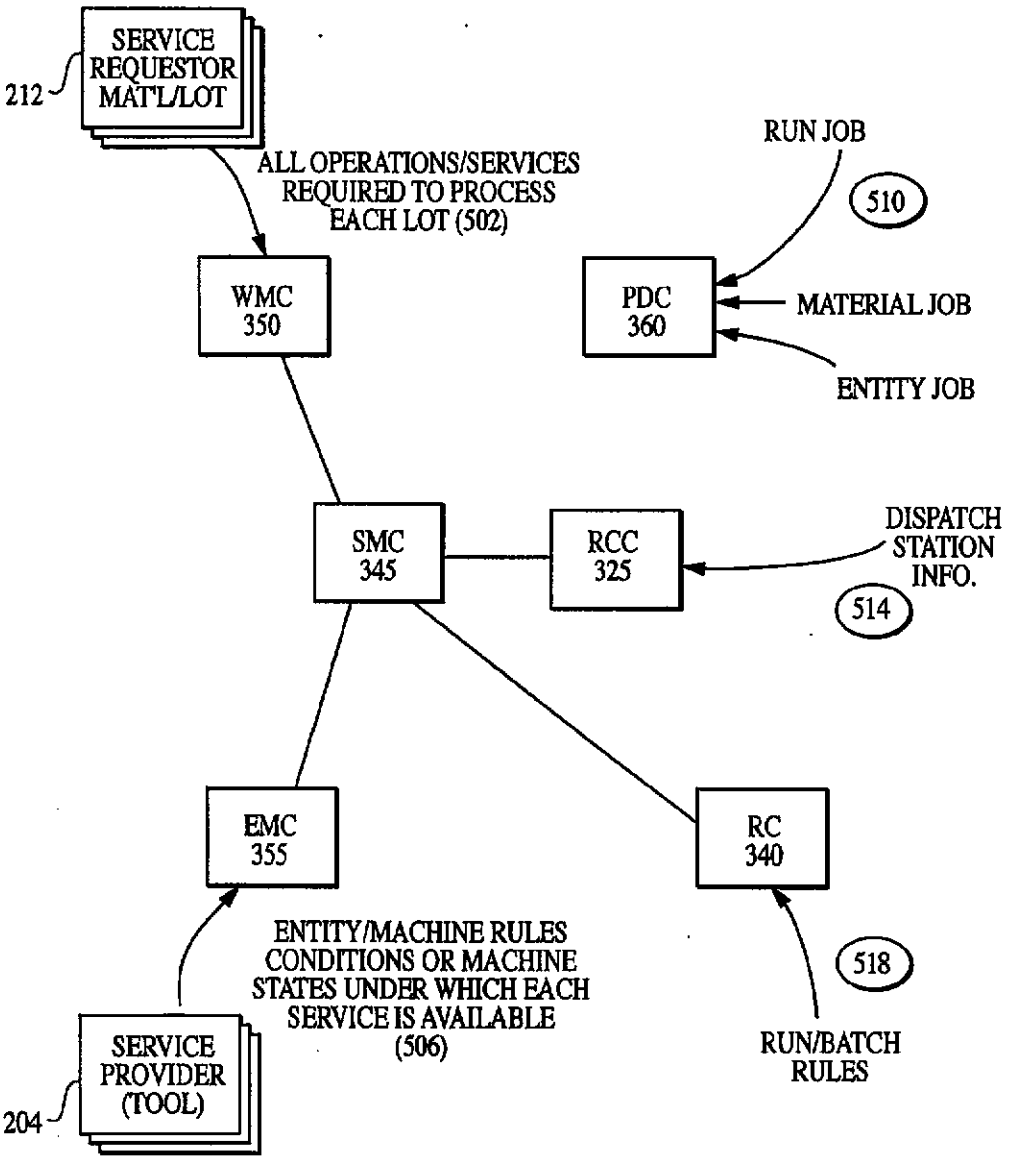

SERVICE REQUESTOR MAT'L/LOT
212
ALL OPERATIONS/SERVICES REQUIRED TO PROCESS EACH LOT (502)
RUN JOB
510
WMC 350
PDC 360
MATERIAL JOB
ENTITY JOB
SMC 345
RCC 325
DISPATCH STATION INFO.
514
EMC 355
RC 340
ENTITY/MACHINE RULES CONDITIONS OR MACHINE STATES UNDER WHICH EACH SERVICE IS AVAILABLE (506)
518
RUN/BATCH RULES
SERVICE PROVIDER (TOOL)
204
MODELING STEP

FIG. 5

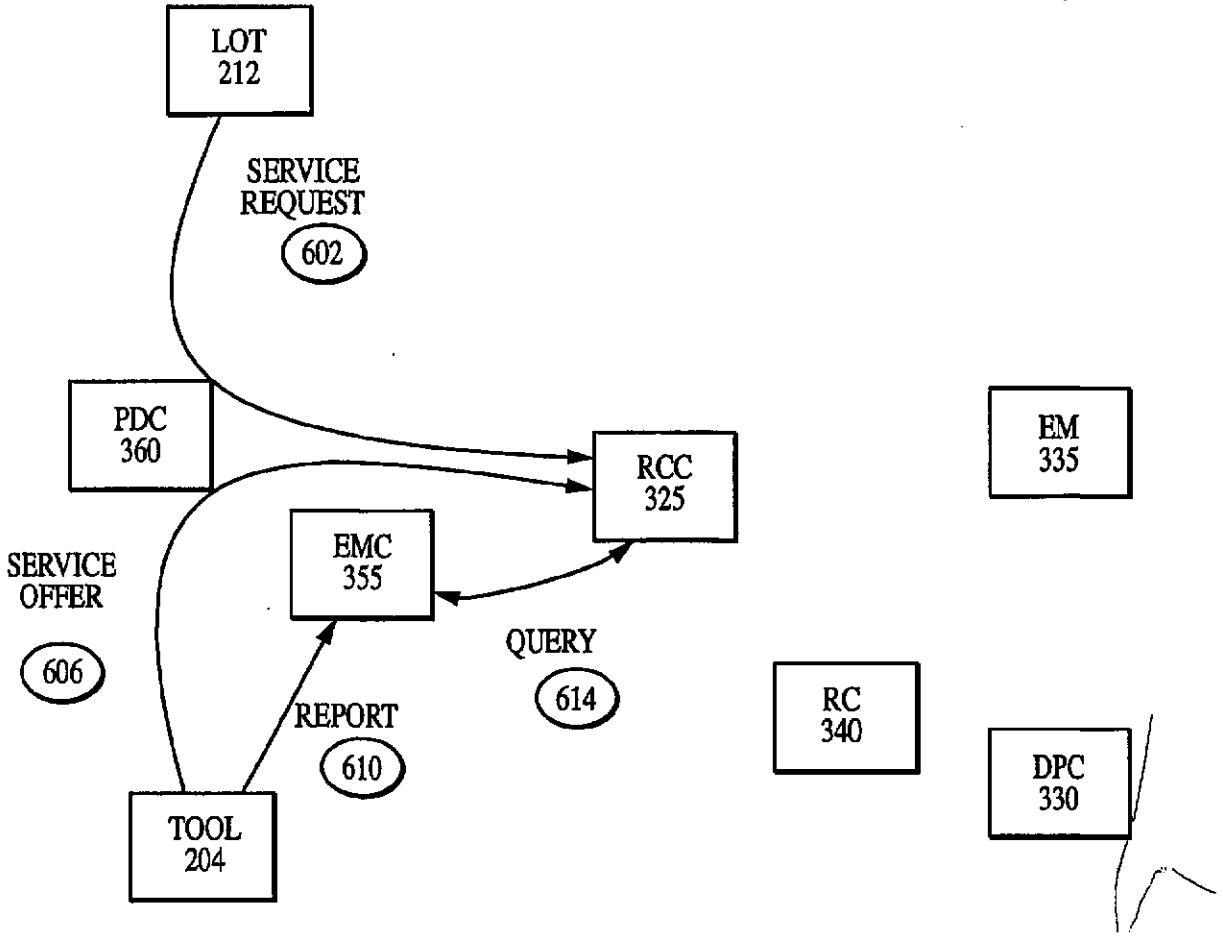

LOT
212
SERVICE
REQUEST
602
PDC
360
RCC
325
EM
335
EMC
355
SERVICE
OFFER
606
QUERY
614
RC
340
REPORT
610
DPC
330
TOOL
204

FIG. 6

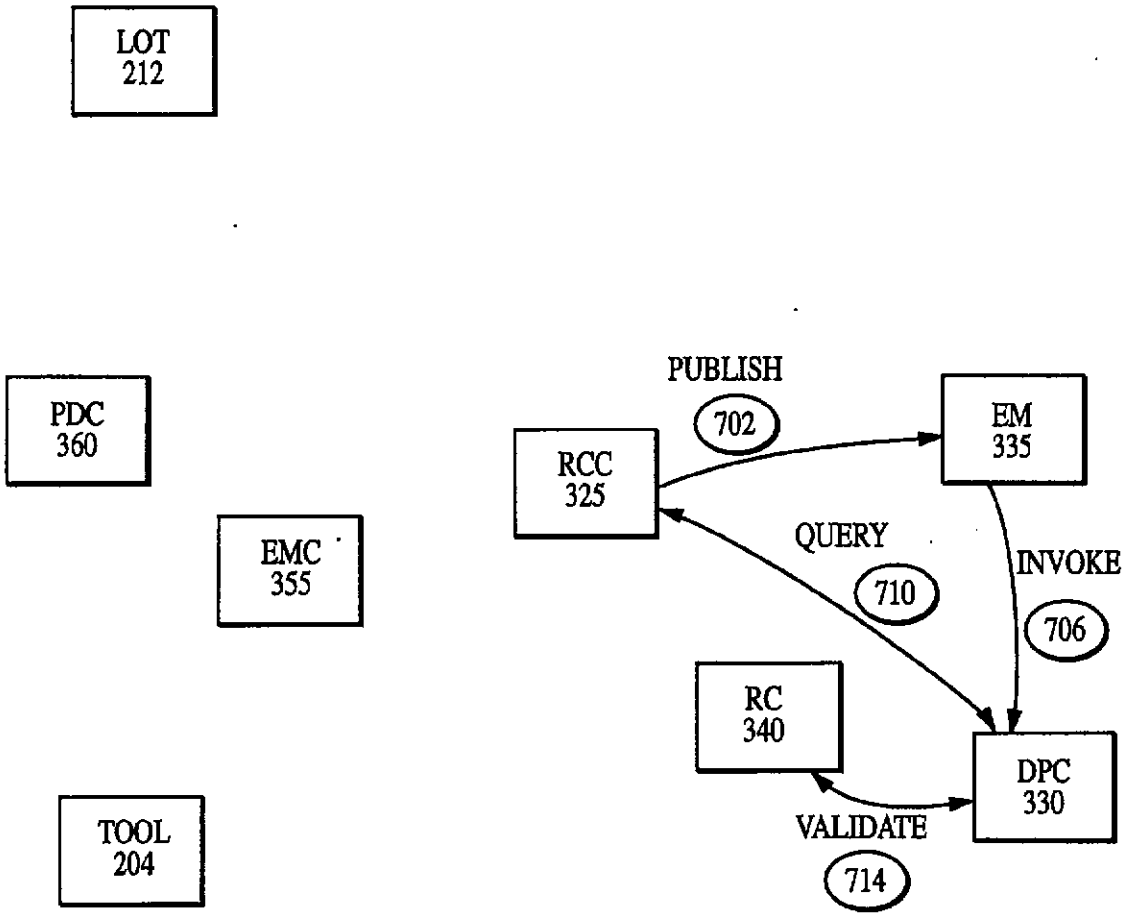

LOT
212
PDC
360
EMC
355
TOOL
204
PUBLISH
702
RCC
325
EM
335
QUERY
710
INVOKE
706
RC
340
DPC
330
VALIDATE
714

FIG. 7

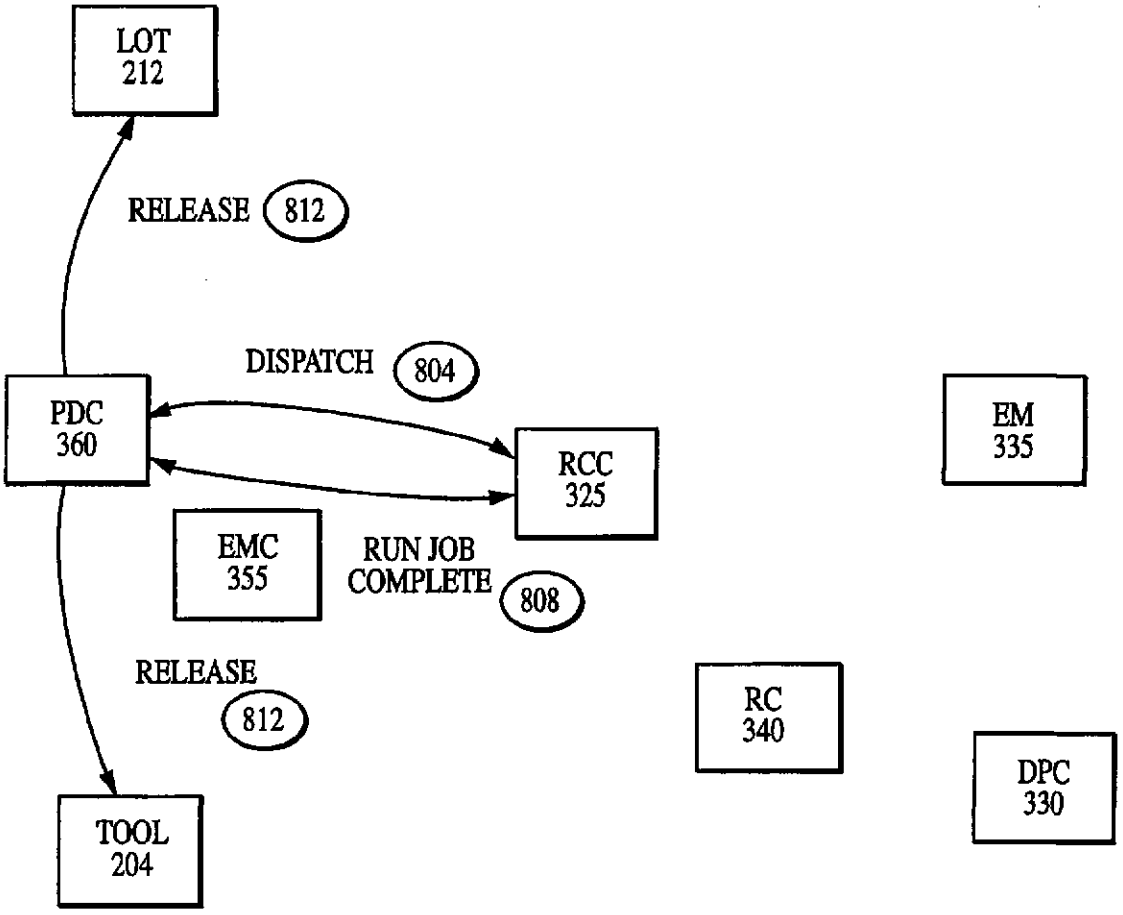

LOT
212
RELEASE
812
DISPATCH
804
PDC
360
RCC
325
EM
335
EMC
355
RUN JOB
COMPLETE
808
RELEASE
812
RC
340
DPC
330
TOOL
204

FIG. 8

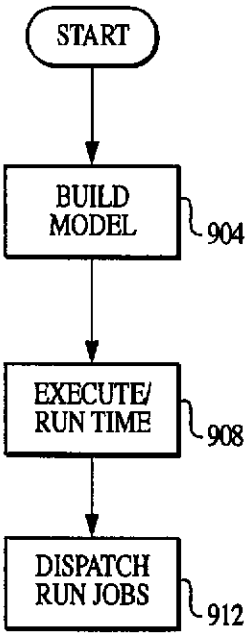

START
BUILD MODEL
904
EXECUTE/ RUN TIME
908
DISPATCH RUN JOBS
912
HIGH LEVEL

FIG. 9

10/14

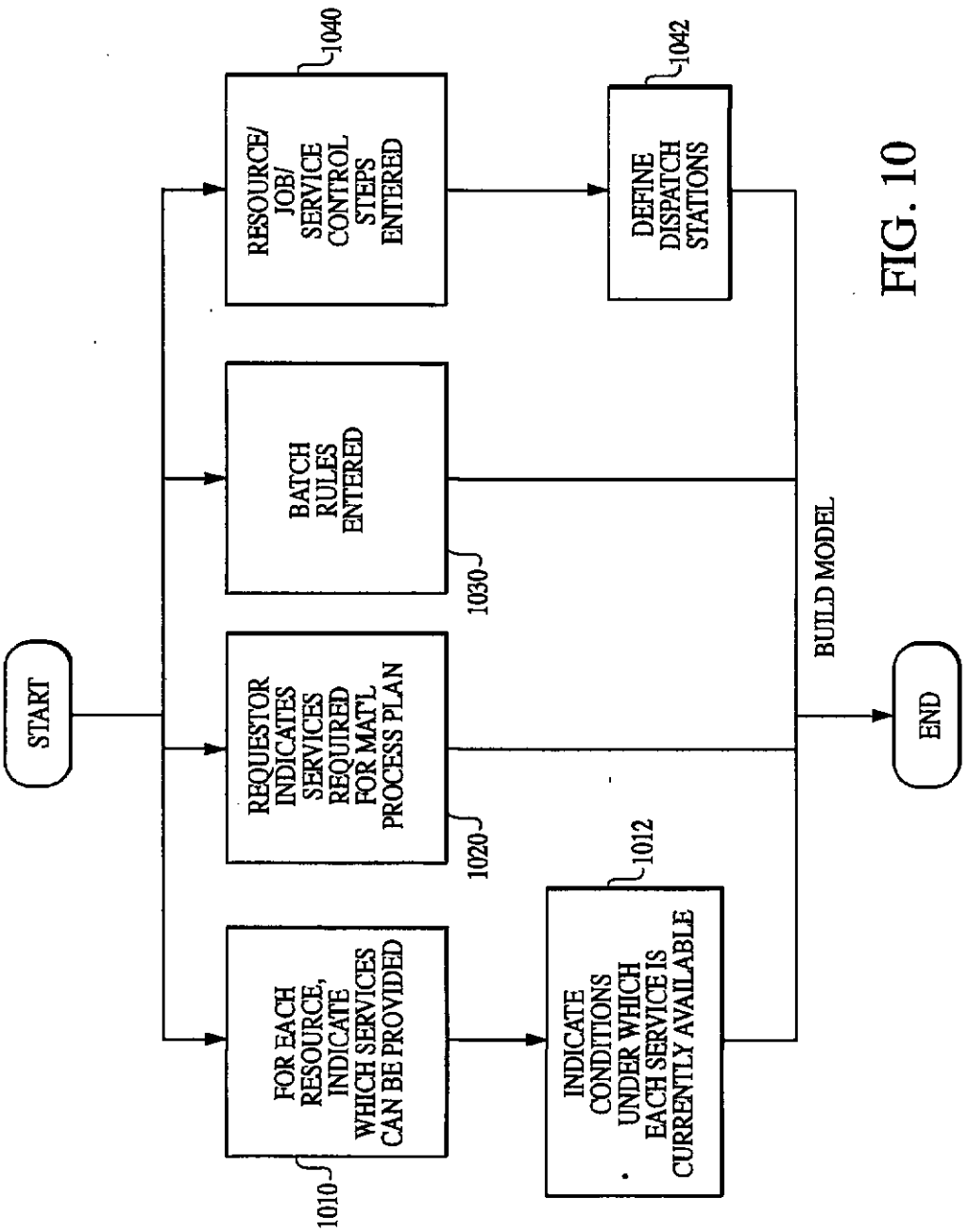

START
FOR EACH RESOURCE, INDICATE WHICH SERVICES CAN BE PROVIDED
1010
INDICATE CONDITIONS UNDER WHICH EACH SERVICE IS CURRENTLY AVAILABLE
1012
REQUESTOR INDICATES SERVICES REQUIRED FOR MATL PROCESS PLAN
1020
BATCH RULES ENTERED
1030
RESOURCE/ JOB/ SERVICE CONTROL STEPS ENTERED
1040
DEFINE DISPATCH STATIONS
1042
BUILD MODEL
END

FIG. 10

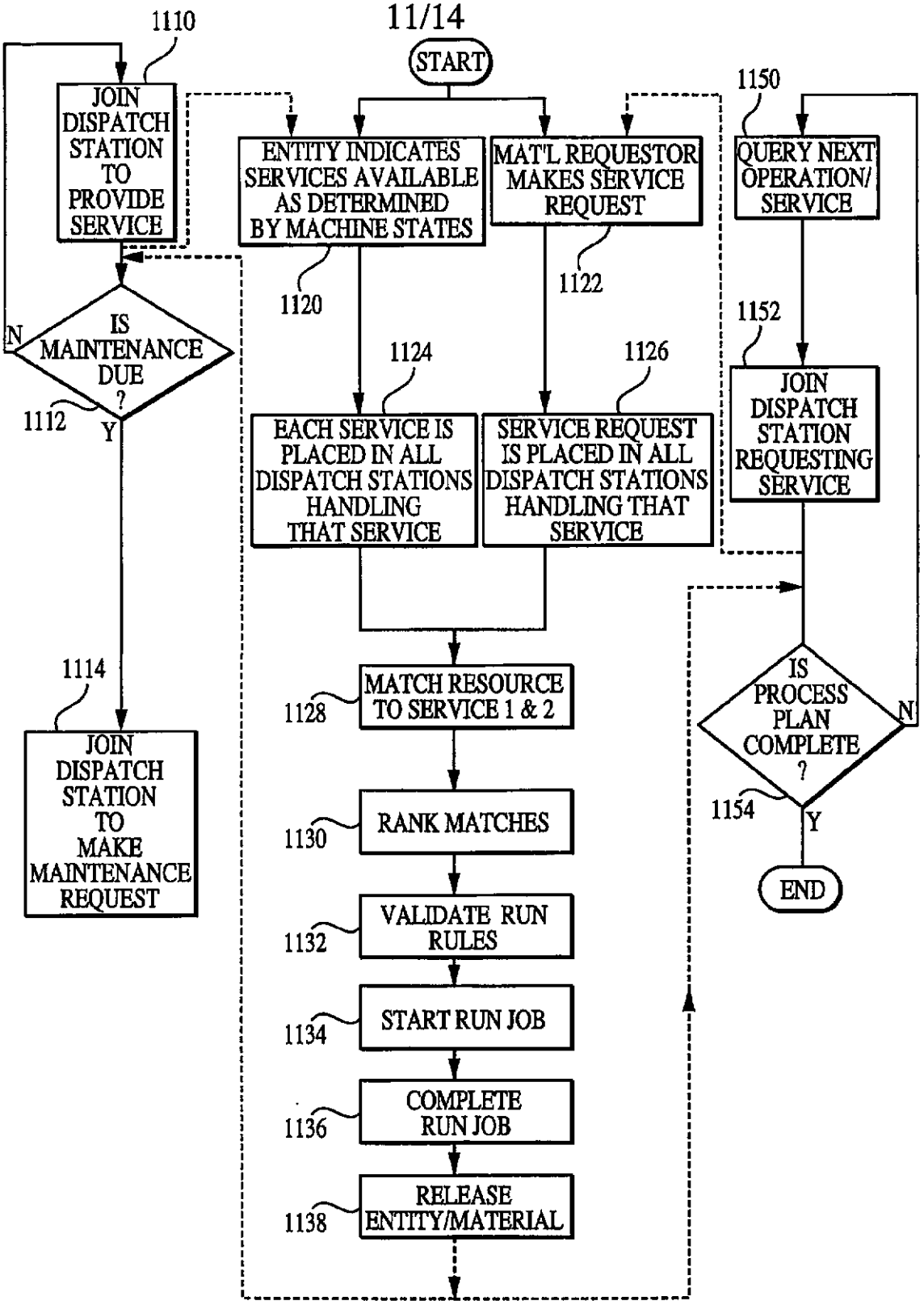

START
1110
JOIN DISPATCH STATION TO PROVIDE SERVICE
IS MAINTENANCE DUE ?
N
Y
1112
1114
JOIN DISPATCH STATION TO MAKE MAINTENANCE REQUEST
ENTITY INDICATES SERVICES AVAILABLE AS DETERMINED BY MACHINE STATES
1120
MAT'L REQUESTOR MAKES SERVICE REQUEST
1122
1124
1126
EACH SERVICE IS PLACED IN ALL DISPATCH STATIONS HANDLING THAT SERVICE
SERVICE REQUEST IS PLACED IN ALL DISPATCH STATIONS HANDLING THAT SERVICE
MATCH RESOURCE TO SERVICE 1 & 2
1128
RANK MATCHES
1130
VALIDATE RUN RULES
1132
START RUN JOB
1134
COMPLETE RUN JOB
1136
RELEASE ENTITY/MATERIAL
1138
1150
QUERY NEXT OPERATION/ SERVICE
1152
JOIN DISPATCH STATION REQUESTING SERVICE
IS PROCESS PLAN COMPLETE ?
N
Y
1154
END

FIG. 11

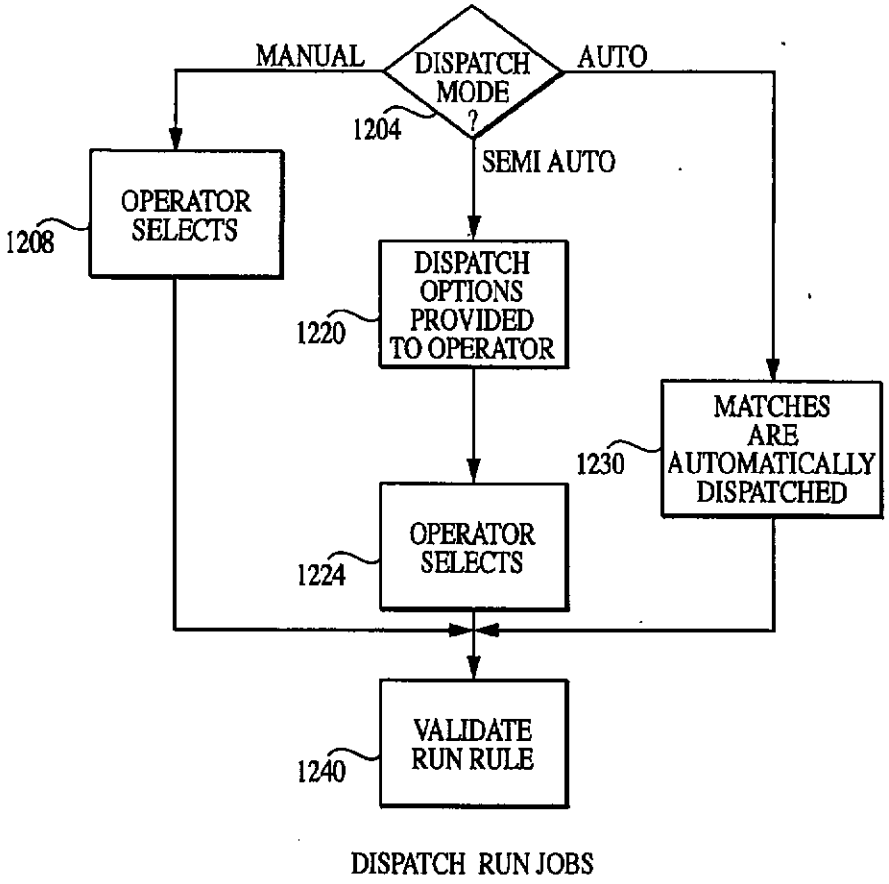

MANUAL
DISPATCH MODE ?
AUTO
1204
SEMI AUTO
OPERATOR SELECTS
1208
DISPATCH OPTIONS PROVIDED TO OPERATOR
1220
MATCHES ARE AUTOMATICALLY DISPATCHED
1230
OPERATOR SELECTS
1224
VALIDATE RUN RULE
1240
DISPATCH RUN JOBS

FIG. 12

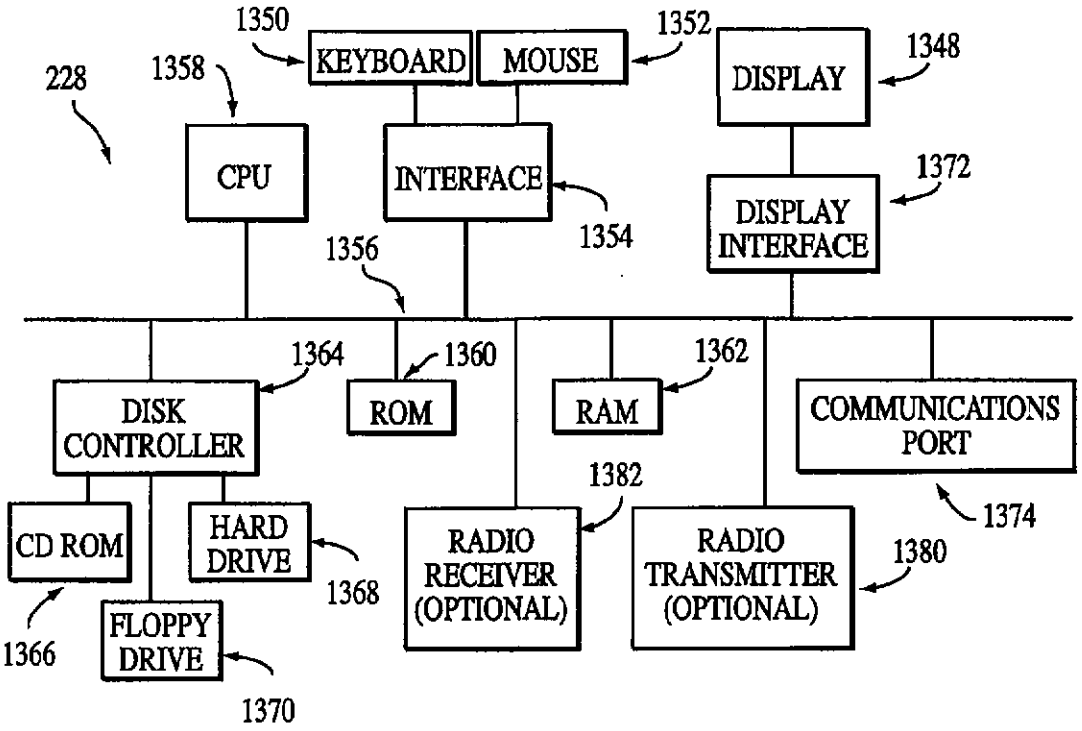

1350
KEYBOARD
MOUSE
1352
DISPLAY
1348
228
1358
CPU
INTERFACE
1354
DISPLAY INTERFACE
1372
1356
1364
1360
1362
DISK CONTROLLER
ROM
RAM
COMMUNICATIONS PORT
1382
1374
CD ROM
HARD DRIVE
RADIO RECEIVER (OPTIONAL)
RADIO TRANSMITTER (OPTIONAL)
1380
1368
1366
FLOPPY DRIVE
1370

FIG. 13

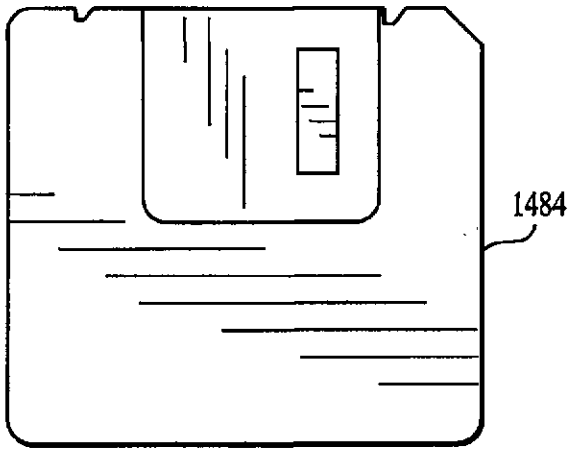


FIG. 14