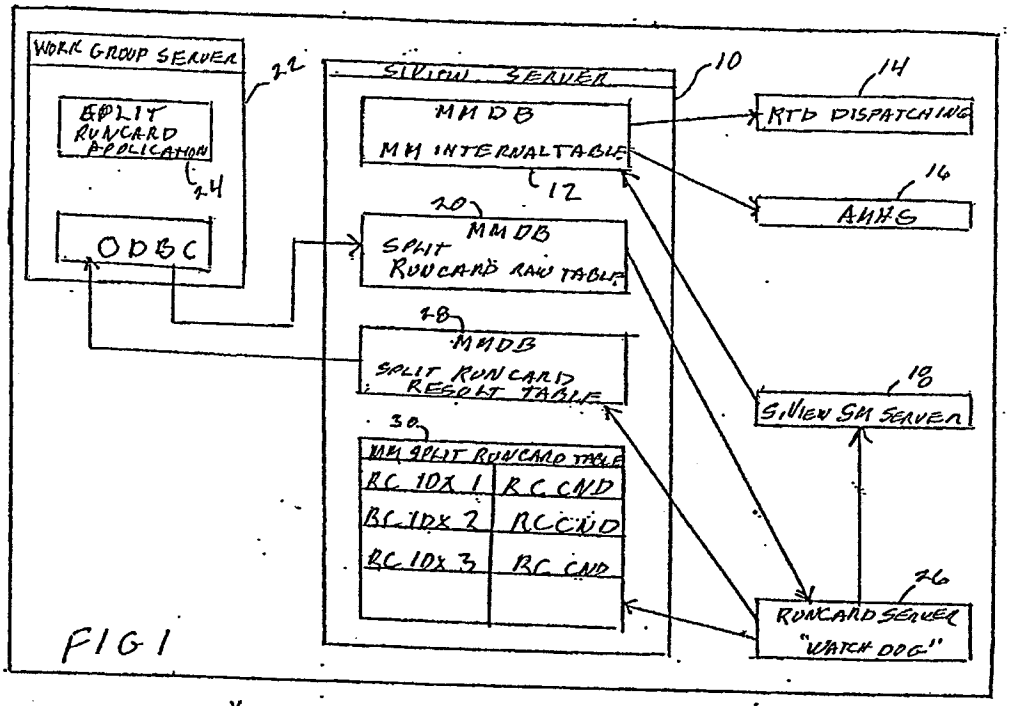

WORK GROUP SERVER
22
SPLIT RUNCARD APPLICATION
24
ODBC
SiView SERVER
10
MMDB
MM INTERNAL TABLE
12
MMDB
SPLIT RUNCARD RAW TABLE
20
MMDB
SPLIT RUNCARD RESULT TABLE
28
MM SPLIT RUNCARD TABLE
RC IDX 1
RC CND
RC IDX 2
RC CND
RC IDX 3
RC CND
RTD DISPATCHING
14
AMHS
16
SiView SM SERVER
18
RUNCARD SERVER "WATCH DOG"
26

FIG 1

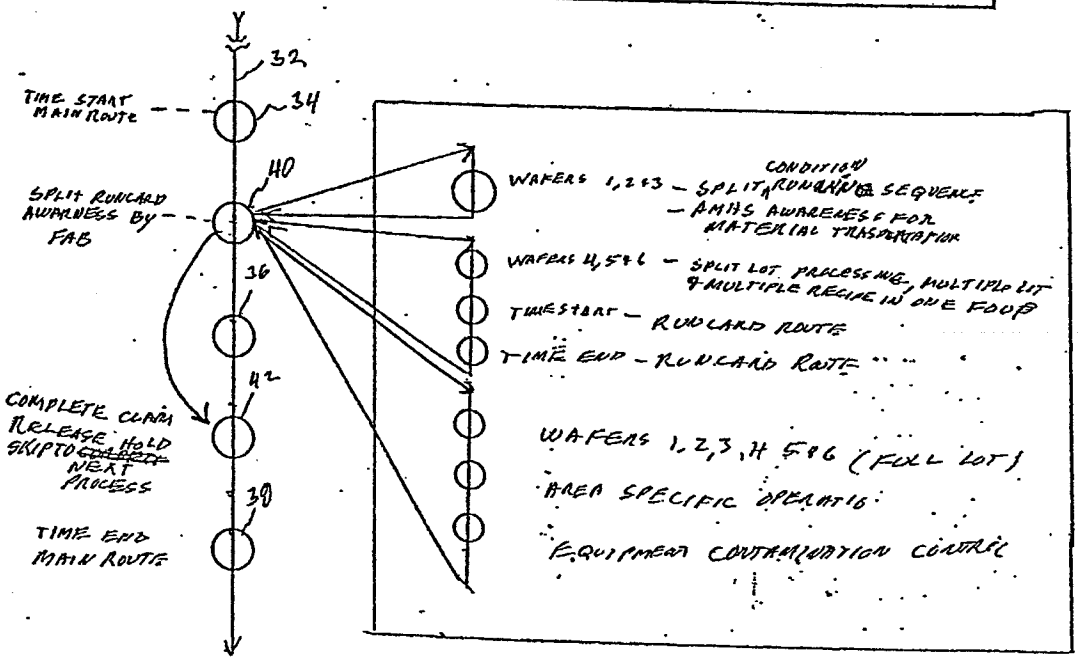

32
TIME START MAIN ROUTE
34
SPLIT RUNCARD AWARENESS BY FAB
40
36
COMPLETE CURR RELEASE HOLD SKIP TO NEXT PROCESS
42
TIME END MAIN ROUTE
38
WAFERS 1,2&3 – SPLIT RUNCARD SEQUENCE
– AMHS AWARENESS FOR MATERIAL TRANSPORTATION
WAFERS 4,5&6 – SPLIT LOT PROCESSING, MULTIPLE SLOT & MULTIPLE RECIPE IN ONE FOUP
TIMESTART – RUNCARD ROUTE
TIME END – RUNCARD ROUTE
WAFERS 1,2,3,4 5&6 (FULL LOT)
AREA SPECIFIC OPERATION
EQUIPMENT CONTAMINATION CONTROL

FIG 2

40	CONDITION 1	RECEIPE A	WAFER ID's 1,3,5,7,9
42	CONDITION 2.	RECEIPE B	WAFER ID's 2,4,6,8,10
44	CONDITION 3	RECEIPE C	WAFER ID's 2,4,6,8,10
46	CONDITION 4	RECEIPE D	WAFER ID's 1,2,3,4,5,6,7,8,9,10

FIG 3

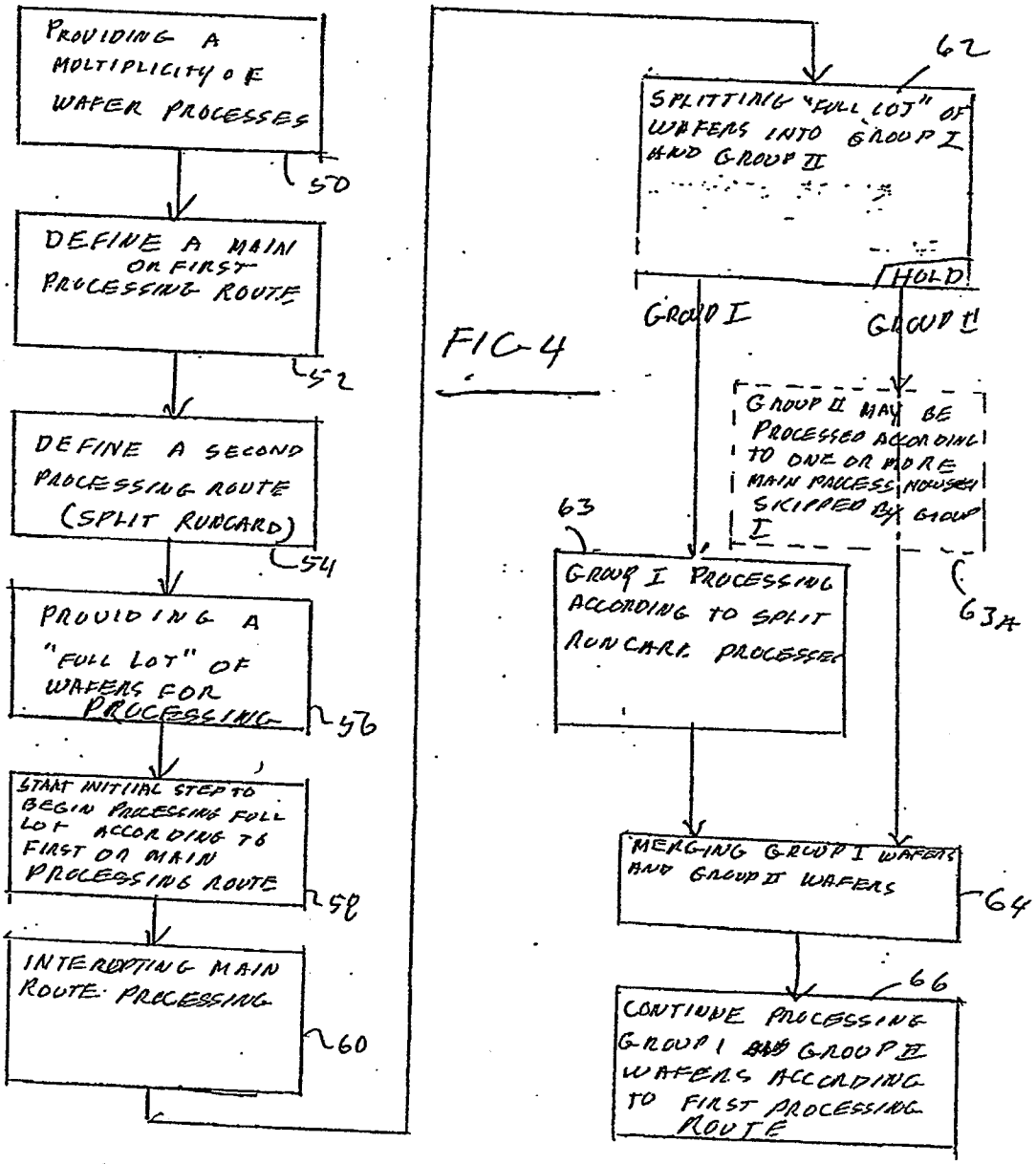


FIG 4

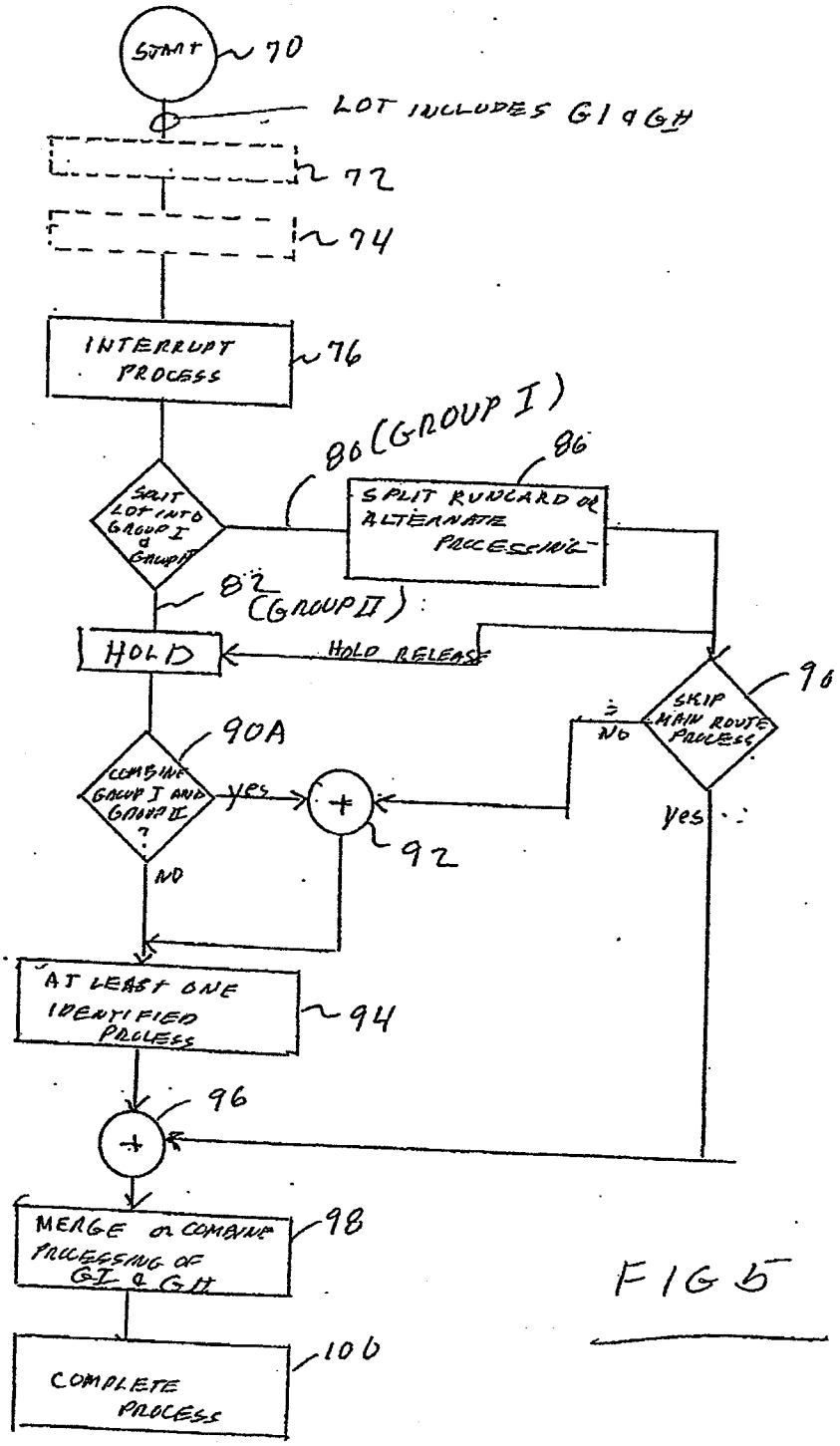

START
70
LOT INCLUDES G I & G II
72
74
INTERRUPT PROCESS
76
SPLIT LOT INTO GROUP I & GROUP II
80 (GROUP I)
SPLIT RUNCARD OR ALTERNATE PROCESSING
86
82 (GROUP II)
HOLD
HOLD RELEASE
SKIP MAIN ROUTE PROCESS
96
NO
yes
90A
COMBINE GROUP I AND GROUP II ?
yes
92
NO
AT LEAST ONE IDENTIFIED PROCESS
94
96
MERGE OR COMBINE PROCESSING OF GI & GII
98
COMPLETE PROCESS
100

FIG 5

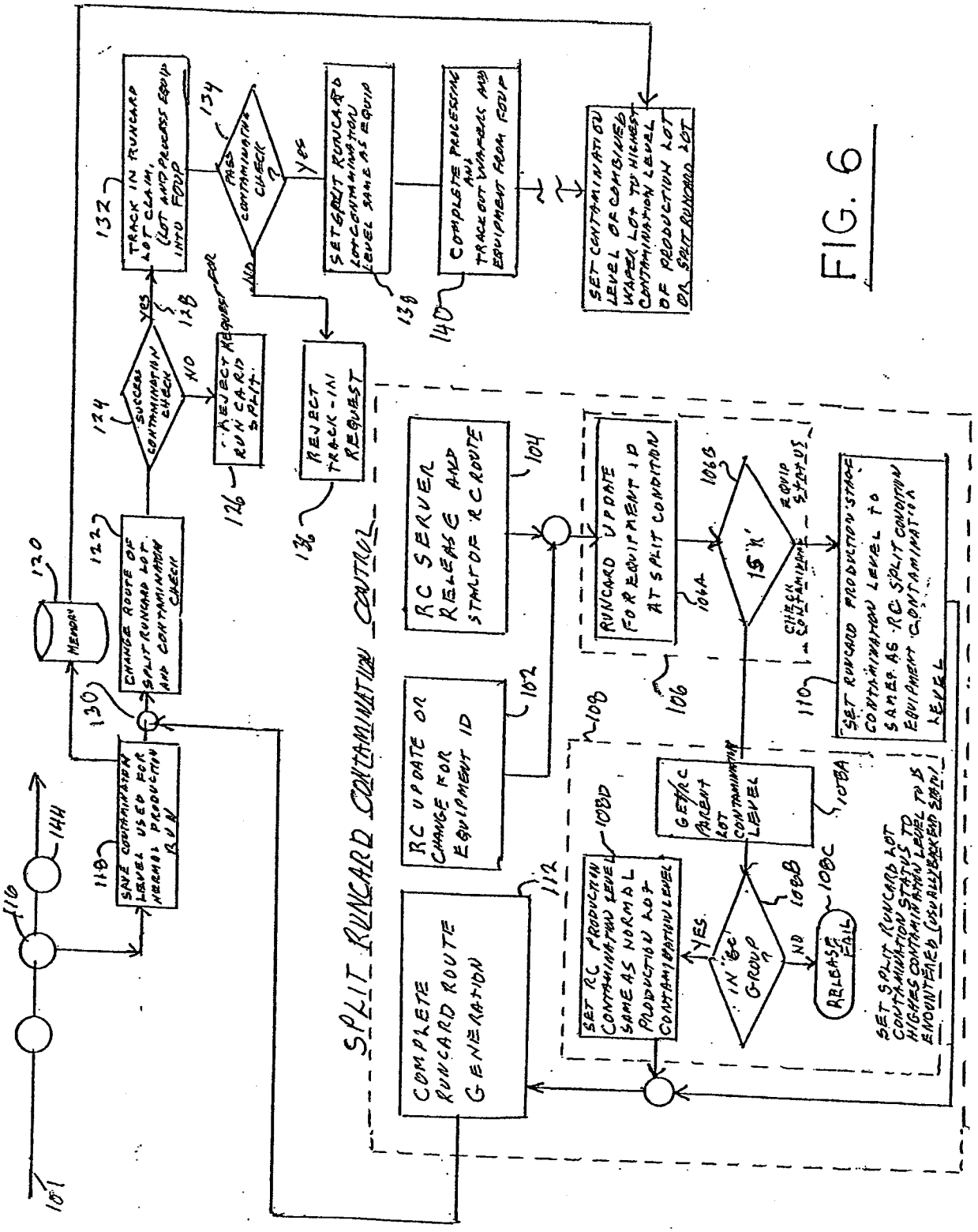

SPLIT RUNCARD CONTAMINATION CONTROL
COMPLETE RUNCARD ROUTE GENERATION
RC UPDATE OR CHANGE FOR EQUIPMENT ID
RC SERVER RELEASE AND STARTOF RC ROUTE
RUNCARD UPDATE FOR EQUIPMENT ID AT SPLIT CONDITION
SET RC PRODUCTION CONTAMINATION LEVEL SAME AS NORMAL PRODUCTION LOT CONTAMINATION LEVEL
GET RC AGENT LOT CONTAMINATION LEVEL
IN 'GC' GROUP ?
YES
NO
RELEASE FAIL
CHECK EQUIPMENT STATUS
IS 'K'
EQUIP STATUS
SET RUNCARD PRODUCTION STAGE CONTAMINATION LEVEL TO SAME AS RC SPLIT CONDITION EQUIPMENT CONTAMINATION LEVEL
SET SPLIT RUNCARD LOT CONTAMINATION STATUS TO HIGHEST CONTAMINATION LEVEL TO BE ENCOUNTERED (USUALLY BACKEND STEPS)
SAVE CONTAMINATION LEVEL USED FOR NORMAL PRODUCTION RUN
MERGE
CHANGE ROUTE OF SPLIT RUNCARD LOT AND CONTAMINATION CHECK
CONTAMINATION CHECK SUCCESS
YES
NO
REJECT RUNCARD SPLIT
REJECT TRACK-IN REQUEST
TRACK IN RUNCARD LOT CLAIM, (LOT AND PROCESS EQUIP INTO FOUP
PASS CONTAMINATION CHECK ?
YES
NO
SET SPLIT RUNCARD LOT CONTAMINATION LEVEL SAME AS EQUIP
COMPLETE PROCESSING AND TRACK OUT WAFERS AND EQUIPMENT FROM FOUP
SET CONTAMINATION LEVEL OF COMBINED WAFER LOT TO HIGHEST CONTAMINATION LEVEL OF PRODUCTION LOT OR SPLIT RUNCARD LOT
100
102
104
106
106A
106B
108
108A
108B
108C
108D
110
112
114
116
118
120
122
124
126
128
130
132
134
136
138
140

FIG. 6