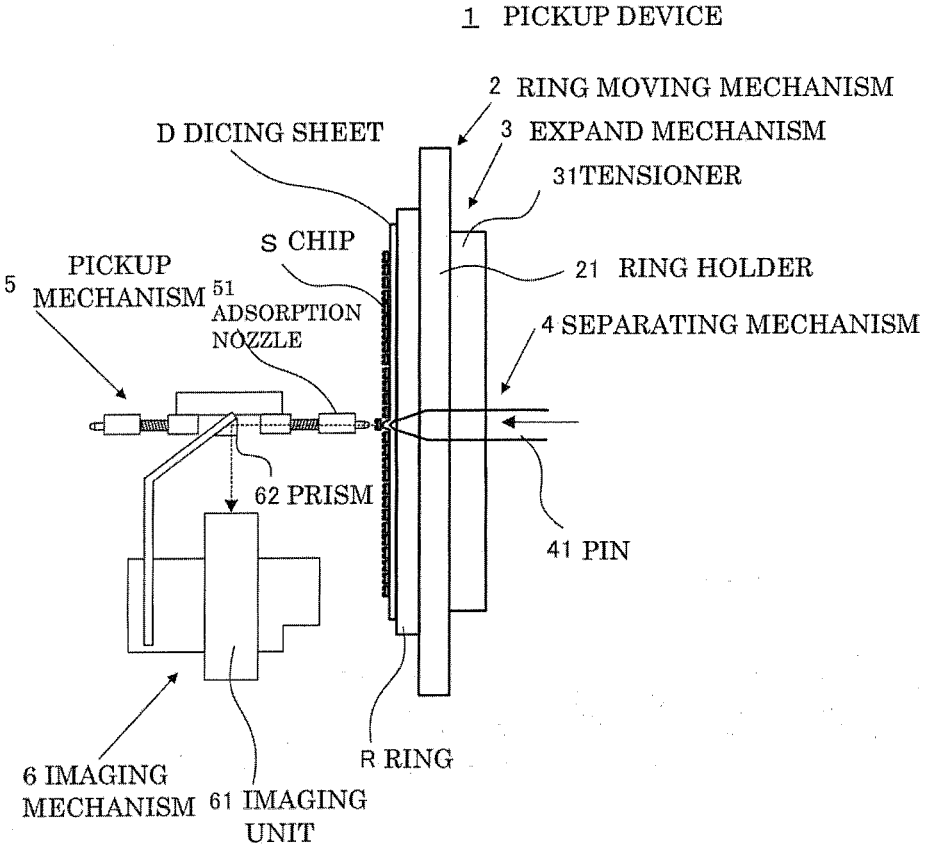

1 PICKUP DEVICE
2 RING MOVING MECHANISM
D DICING SHEET
3 EXPAND MECHANISM
31TENSIONER
S CHIP
21 RING HOLDER
5 PICKUP MECHANISM
51 ADSORPTION NOZZLE
4 SEPARATING MECHANISM
62 PRISM
41 PIN
6 IMAGING MECHANISM
61 IMAGING UNIT
R RING

FIG. 1

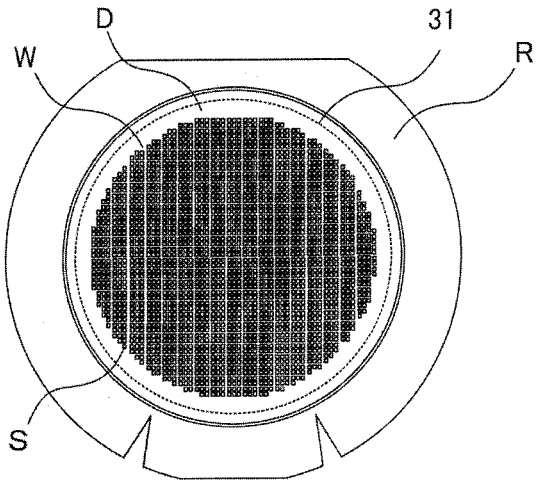

D
31
W
R
S

FIG. 2

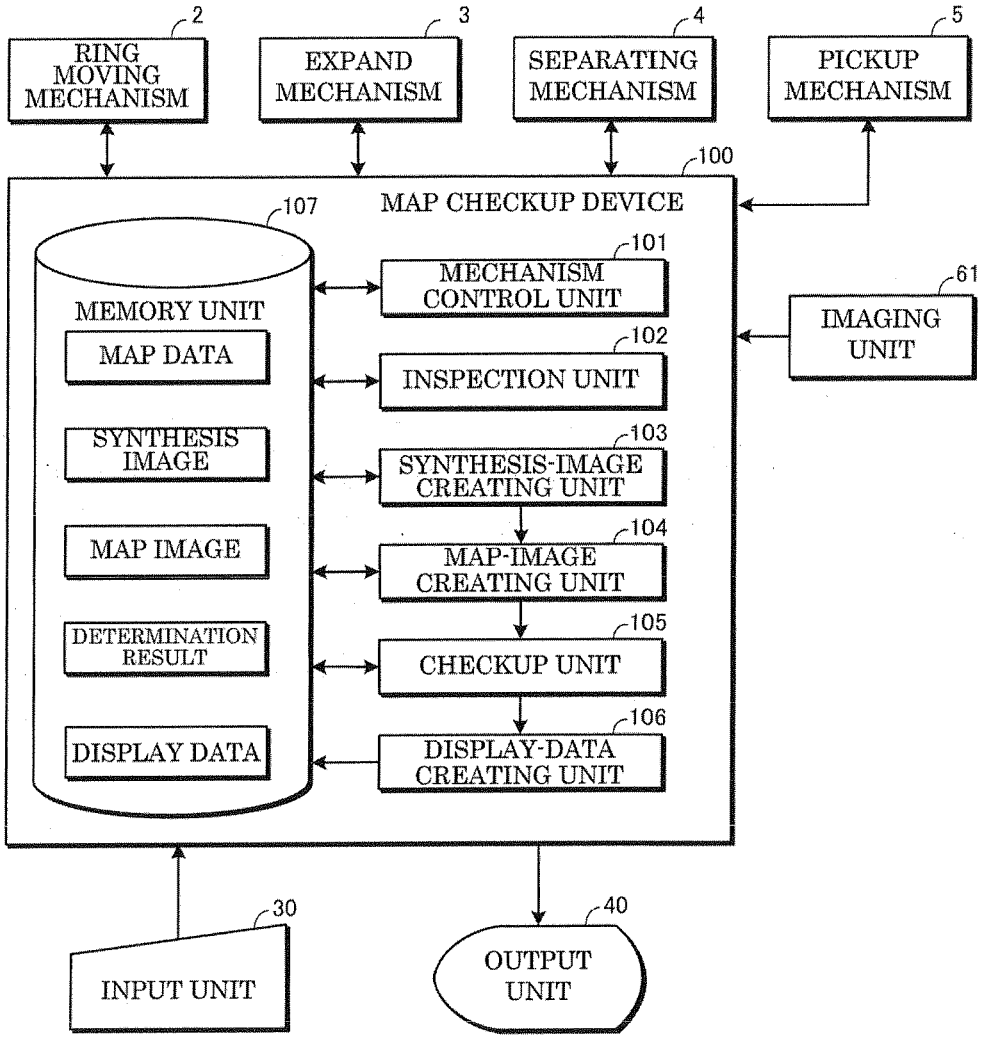

2
RING MOVING MECHANISM
3
EXPAND MECHANISM
4
SEPARATING MECHANISM
5
PICKUP MECHANISM
100
MAP CHECKUP DEVICE
107
MEMORY UNIT
MAP DATA
SYNTHESIS IMAGE
MAP IMAGE
DETERMINATION RESULT
DISPLAY DATA
101
MECHANISM CONTROL UNIT
102
INSPECTION UNIT
103
SYNTHESIS-IMAGE CREATING UNIT
104
MAP-IMAGE CREATING UNIT
105
CHECKUP UNIT
106
DISPLAY-DATA CREATING UNIT
61
IMAGING UNIT
30
INPUT UNIT
40
OUTPUT UNIT

FIG. 3

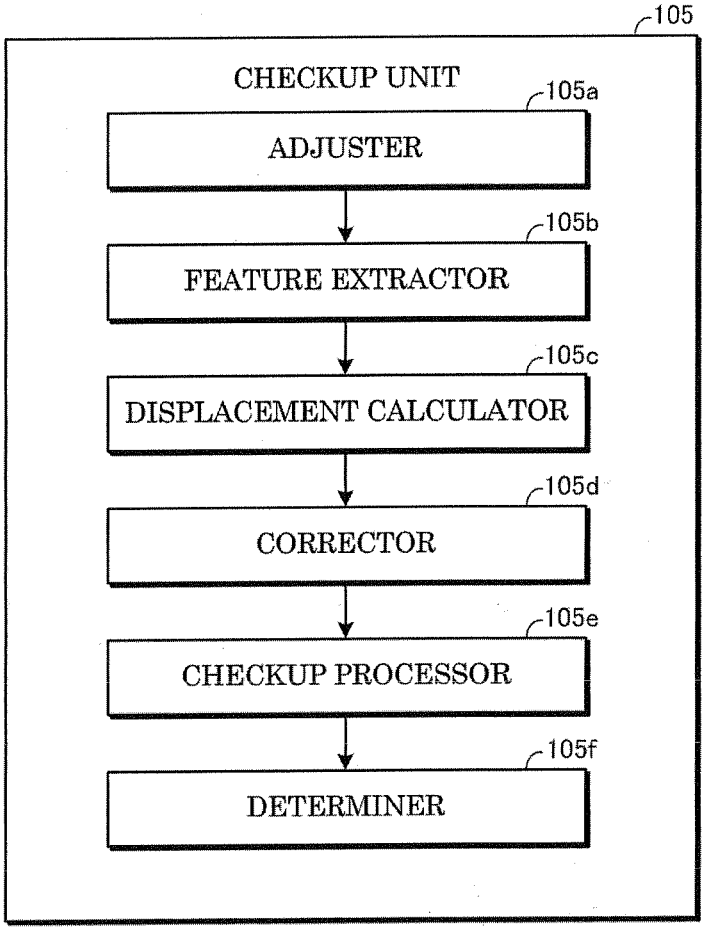
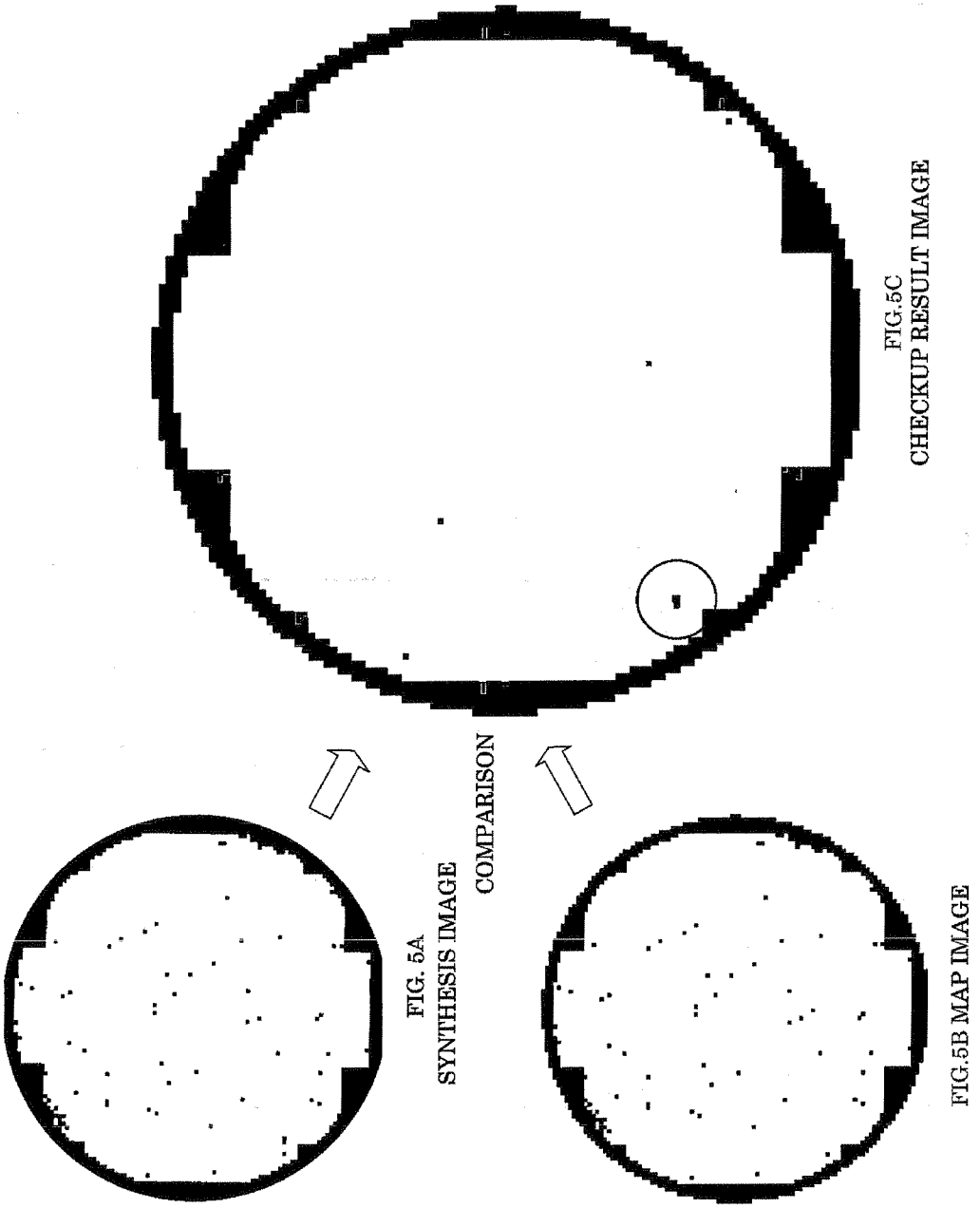

105
CHECKUP UNIT
105a
ADJUSTER
105b
FEATURE EXTRACTOR
105c
DISPLACEMENT CALCULATOR
105d
CORRECTOR
105e
CHECKUP PROCESSOR
105f
DETERMINER

FIG. 4


FIG. 5A
SYNTHESIS IMAGE
COMPARISON
FIG.5C
CHECKUP RESULT IMAGE
FIG.5B MAP IMAGE

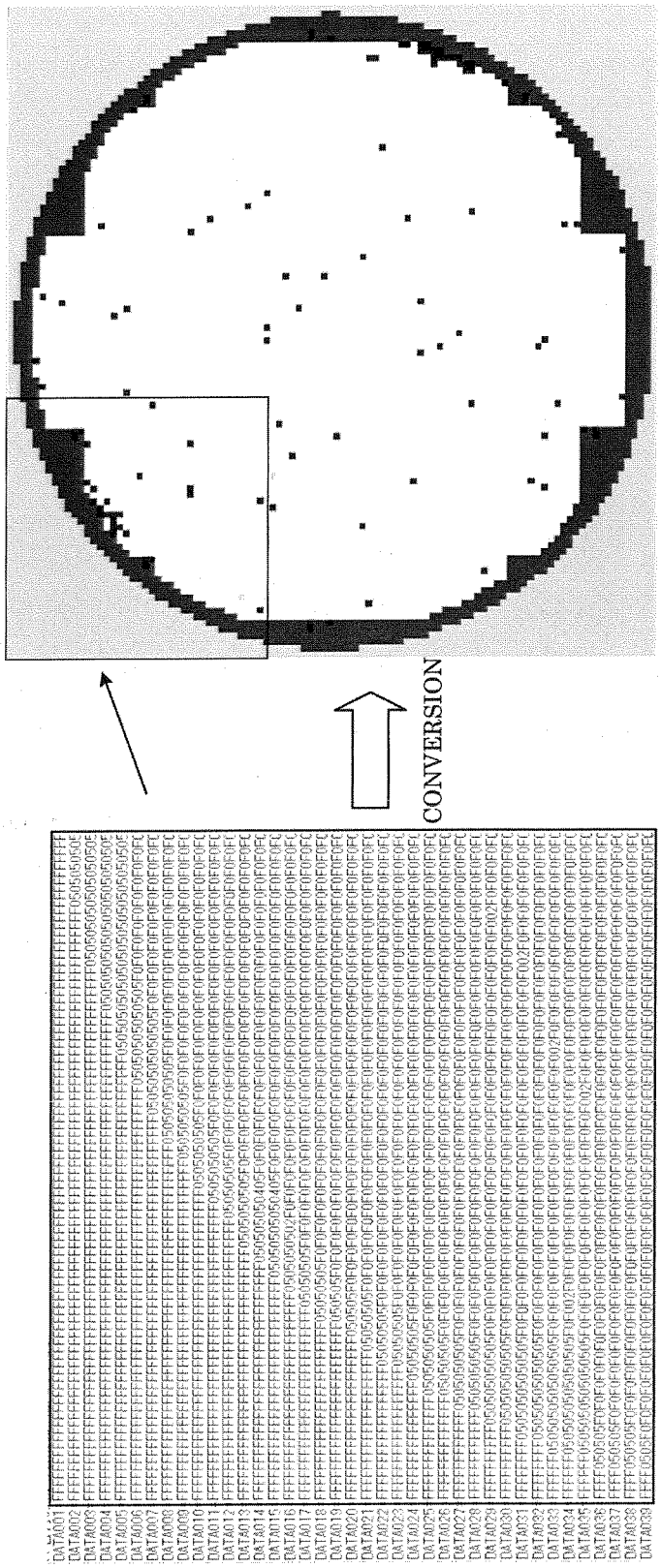


FIG.6B
MAP IMAGE

FIG. 6A
PART OF MAP DATA

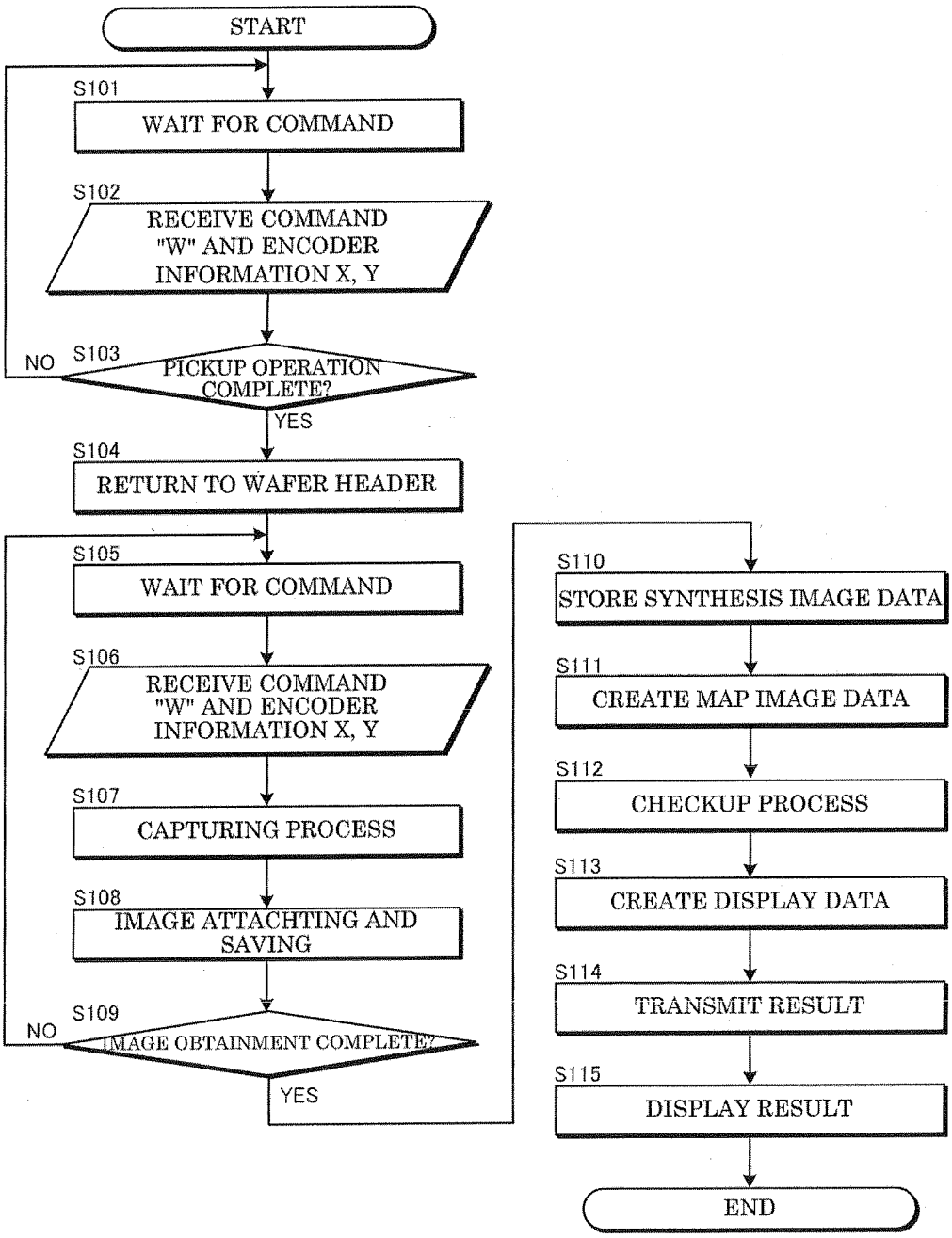

START
S101
WAIT FOR COMMAND
S102
RECEIVE COMMAND "W" AND ENCODER INFORMATION X, Y
S103
PICKUP OPERATION COMPLETE?
NO
YES
S104
RETURN TO WAFER HEADER
S105
WAIT FOR COMMAND
S106
RECEIVE COMMAND "W" AND ENCODER INFORMATION X, Y
S107
CAPTURING PROCESS
S108
IMAGE ATTACHTING AND SAVING
S109
IMAGE OBTAINMENT COMPLETE?
NO
YES
S110
STORE SYNTHESIS IMAGE DATA
S111
CREATE MAP IMAGE DATA
S112
CHECKUP PROCESS
S113
CREATE DISPLAY DATA
S114
TRANSMIT RESULT
S115
DISPLAY RESULT
END

FIG. 7

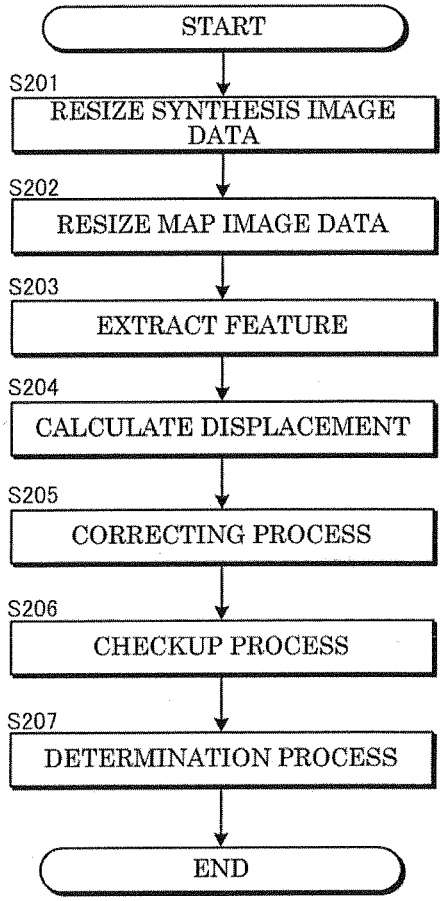

START
S201
RESIZE SYNTHESIS IMAGE DATA
S202
RESIZE MAP IMAGE DATA
S203
EXTRACT FEATURE
S204
CALCULATE DISPLACEMENT
S205
CORRECTING PROCESS
S206
CHECKUP PROCESS
S207
DETERMINATION PROCESS
END

FIG. 8

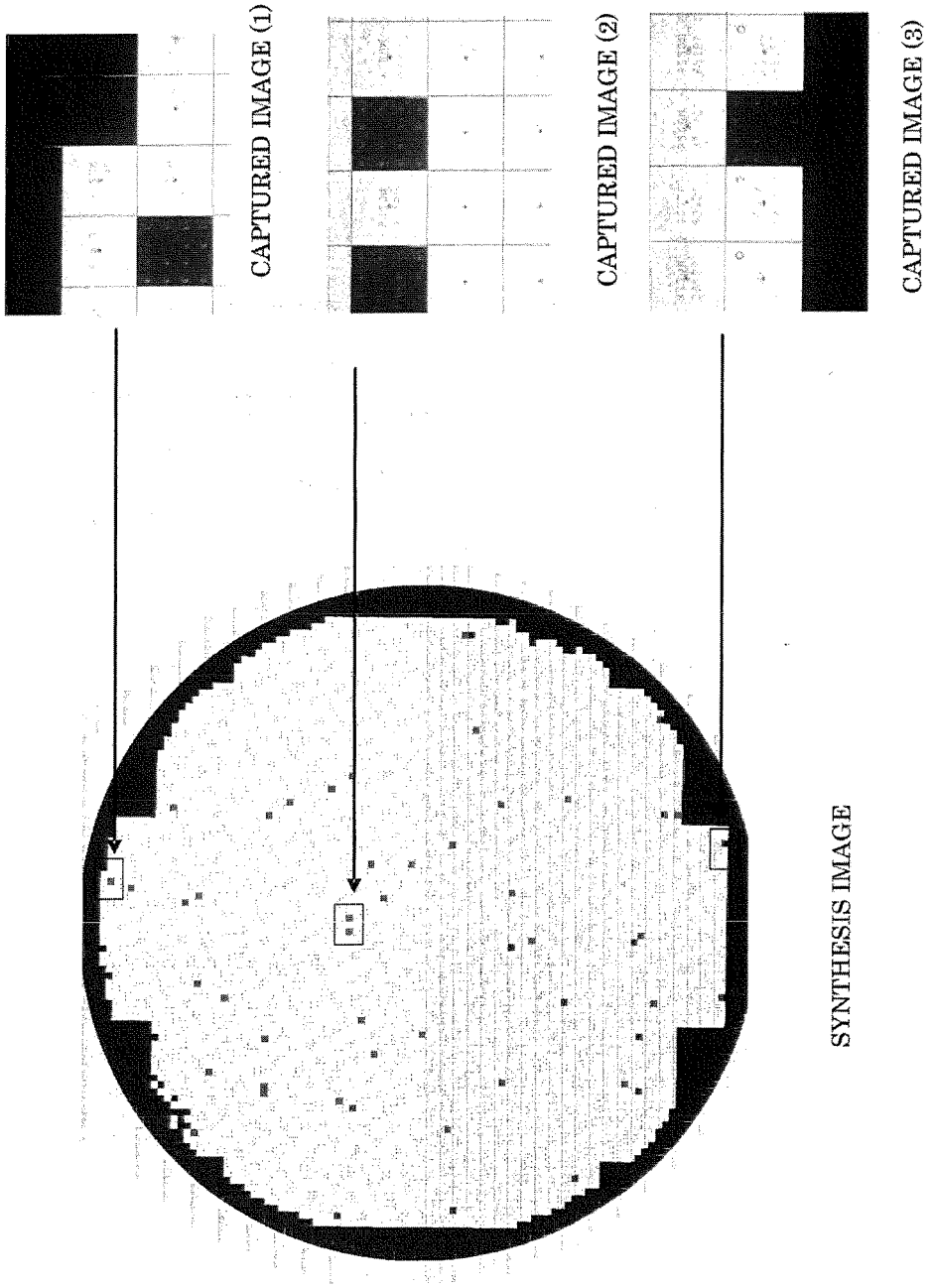

CAPTURED IMAGE (1)
CAPTURED IMAGE (2)
CAPTURED IMAGE (3)
SYNTHESIS IMAGE

FIG. 9

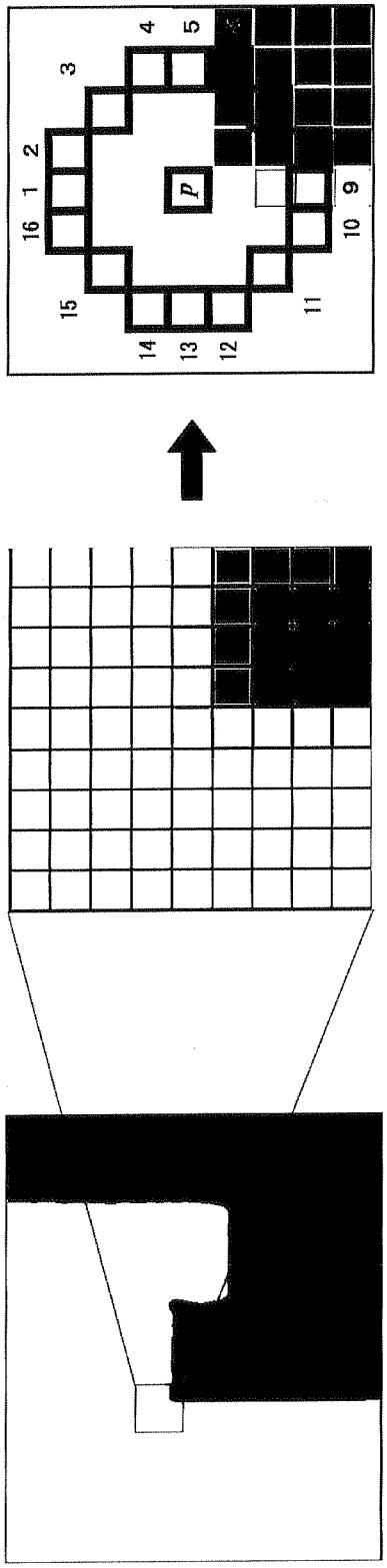


FIG.10C

FIG.10B

FIG.10A

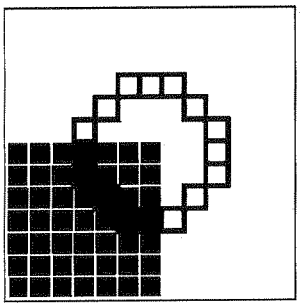


FIG.11D

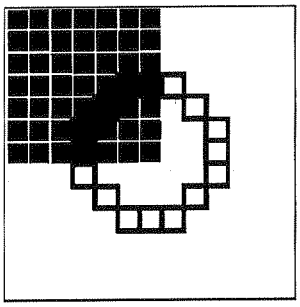


FIG.11C

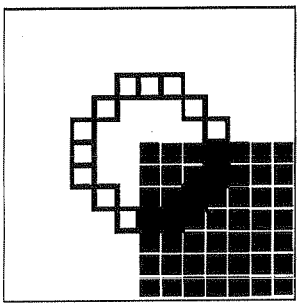


FIG.11B

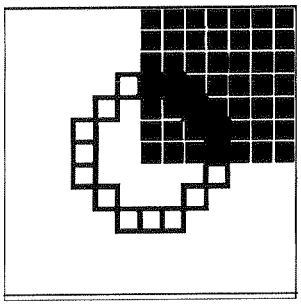


FIG.11A

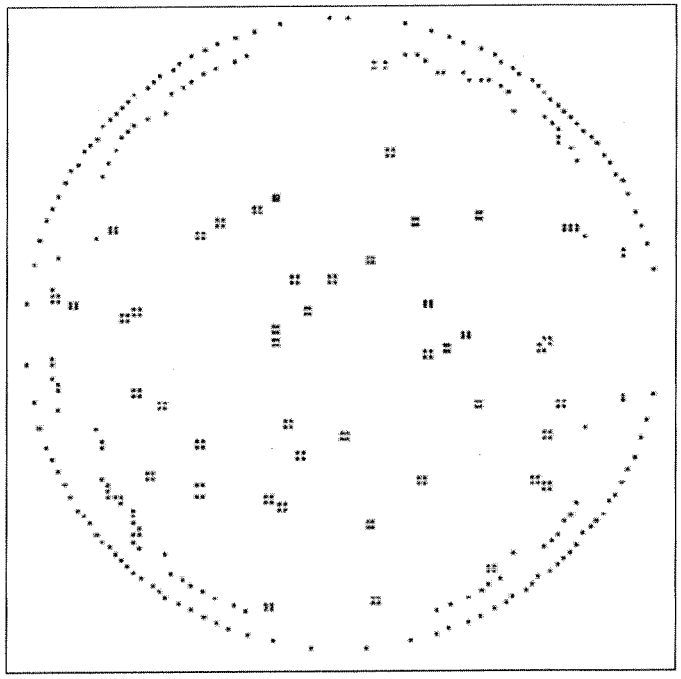


FIG.12B

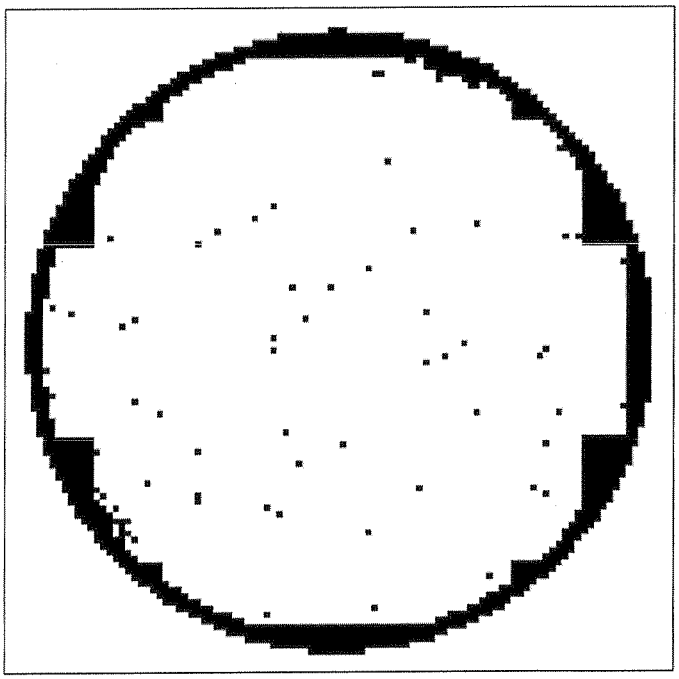


FIG.12A

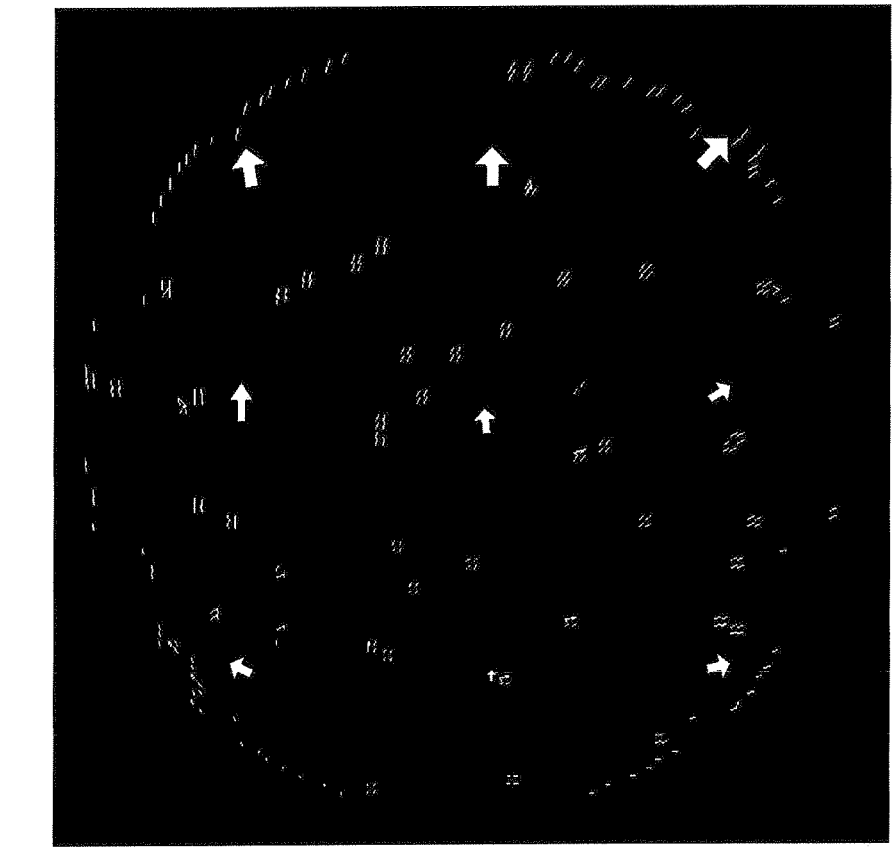


FIG.13C

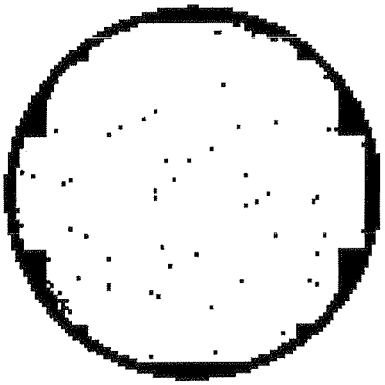


FIG.13A

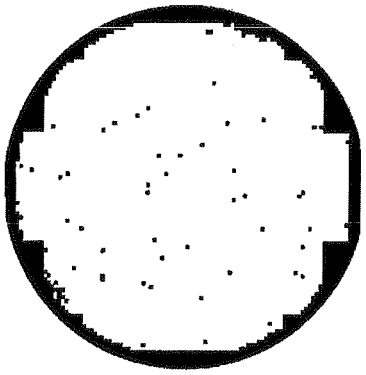


FIG.13B

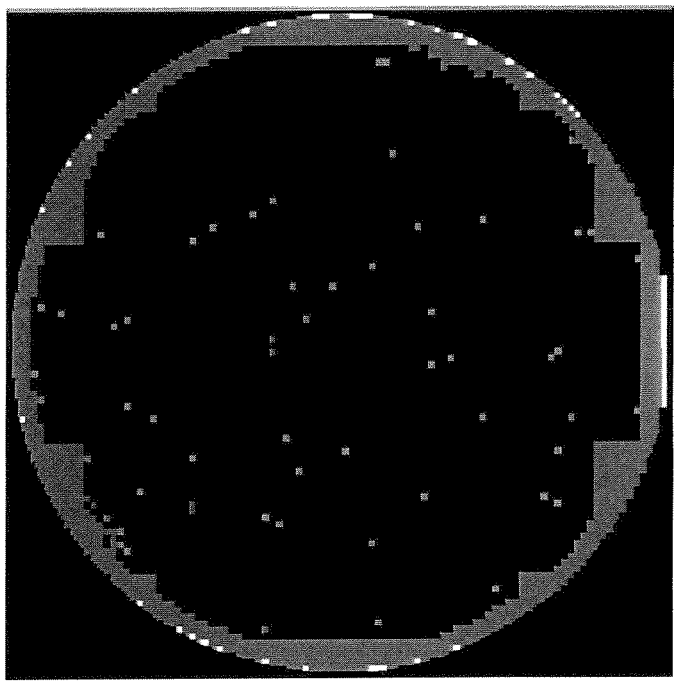


FIG.14B

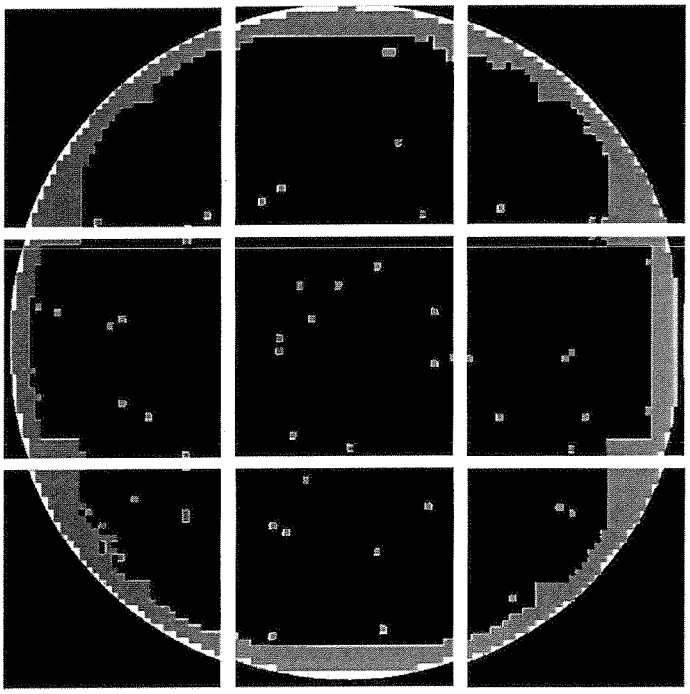


FIG.14A

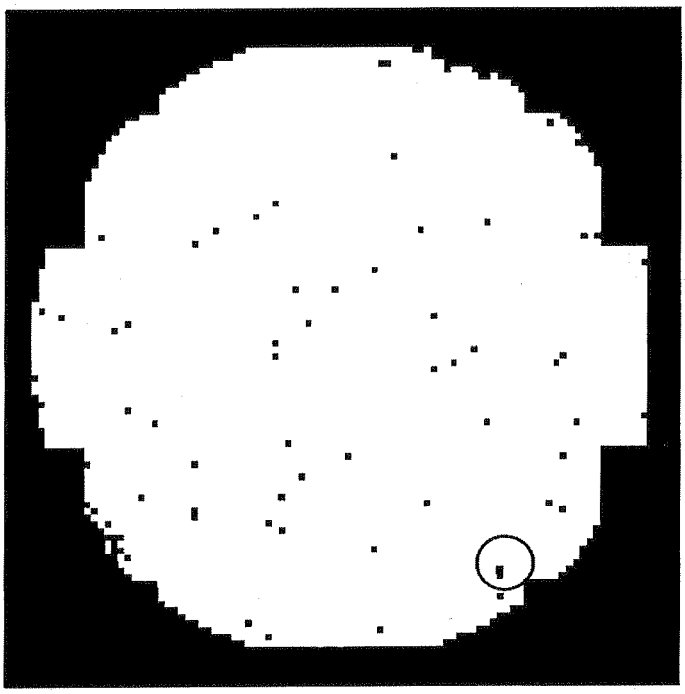


FIG.15B

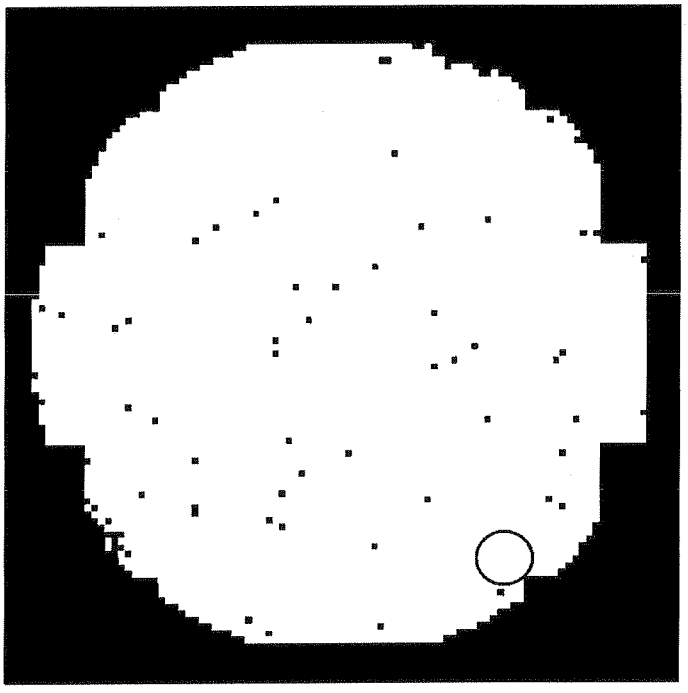


FIG.15A