FIG - 1

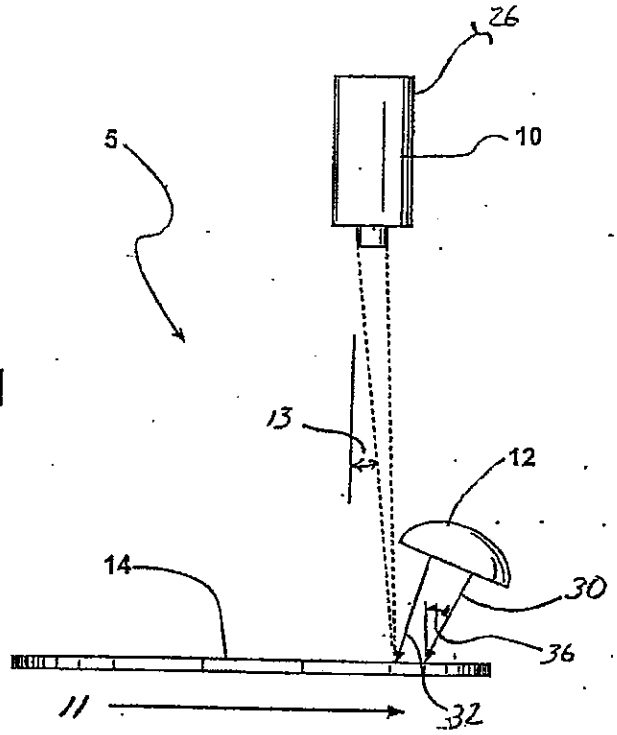


FIG - 2

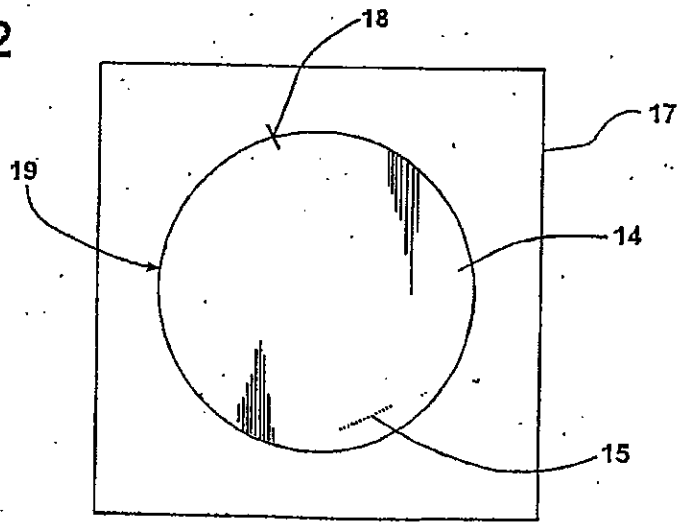
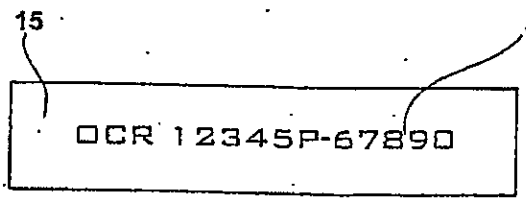


FIG - 3



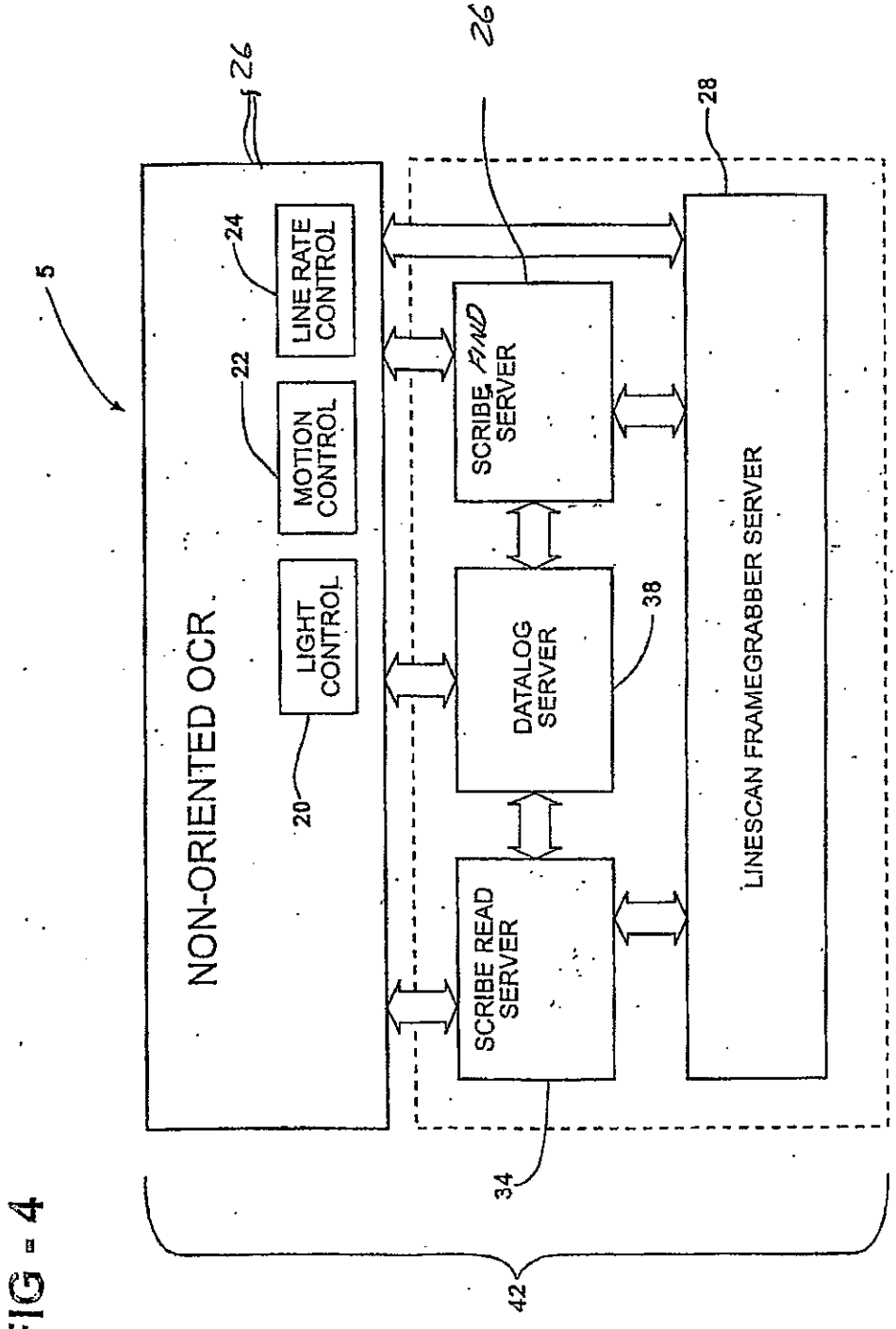
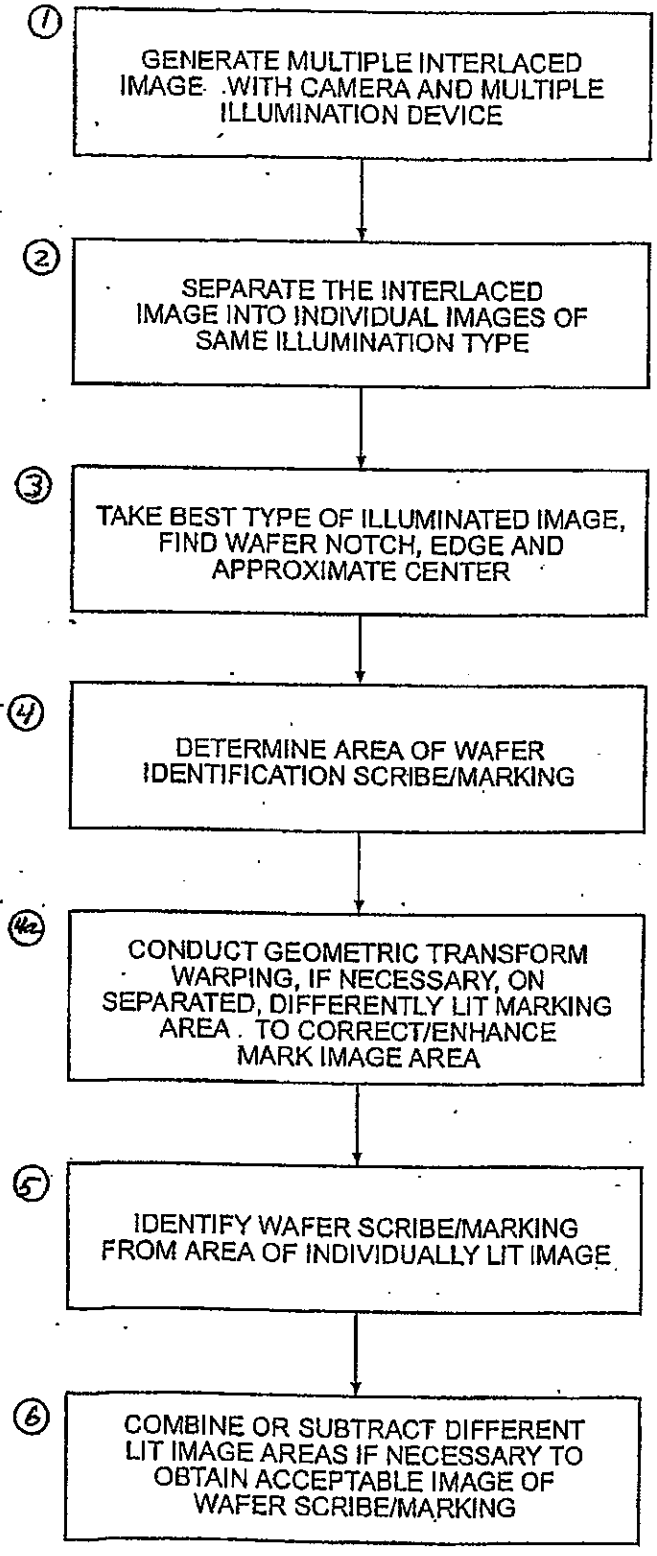

5
26
26
28
NON-ORIENTED OCR
LINE RATE CONTROL
24
MOTION CONTROL
22
LIGHT CONTROL
20
SCRIBE FIND SERVER
DATALOG SERVER
38
SCRIBE READ SERVER
34
LINESCAN FRAMEGRABBER SERVER
42

FIG - 4

FIG - 5


1
GENERATE MULTIPLE INTERLACED IMAGE WITH CAMERA AND MULTIPLE ILLUMINATION DEVICE
2
SEPARATE THE INTERLACED IMAGE INTO INDIVIDUAL IMAGES OF SAME ILLUMINATION TYPE
3
TAKE BEST TYPE OF ILLUMINATED IMAGE, FIND WAFER NOTCH, EDGE AND APPROXIMATE CENTER
4
DETERMINE AREA OF WAFER IDENTIFICATION SCRIBE/MARKING
4a2
CONDUCT GEOMETRIC TRANSFORM WARPING, IF NECESSARY, ON SEPARATED, DIFFERENTLY LIT MARKING AREA . TO CORRECT/ENHANCE MARK IMAGE AREA
5
IDENTIFY WAFER SCRIBE/MARKING FROM AREA OF INDIVIDUALLY LIT IMAGE
6
COMBINE OR SUBTRACT DIFFERENT LIT IMAGE AREAS IF NECESSARY TO OBTAIN ACCEPTABLE IMAGE OF WAFER SCRIBE/MARKING