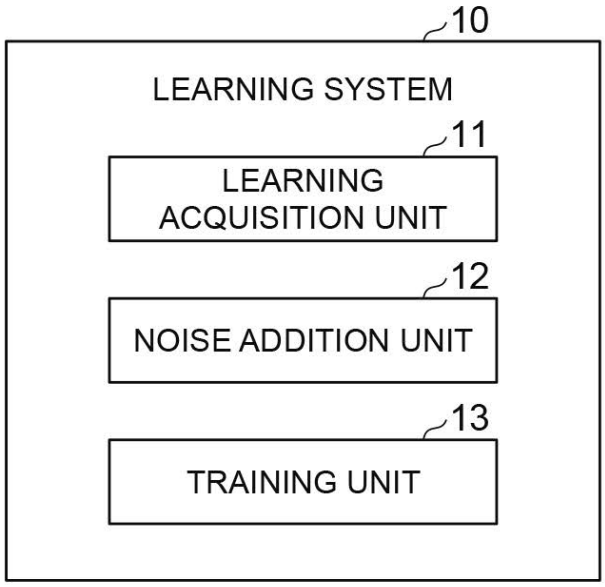
***Fig.1***

(a)


10
LEARNING SYSTEM
11
LEARNING ACQUISITION UNIT
12
NOISE ADDITION UNIT
13
TRAINING UNIT

(b)

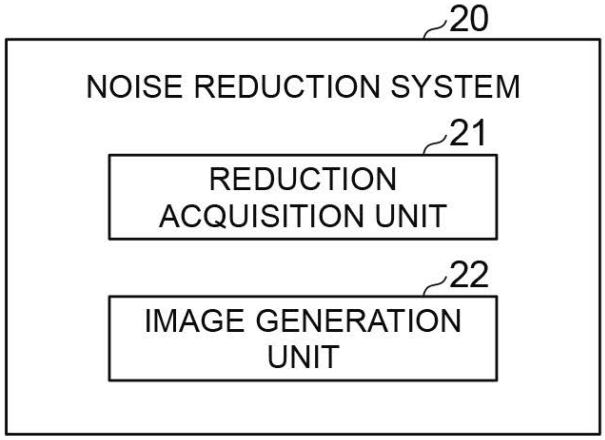
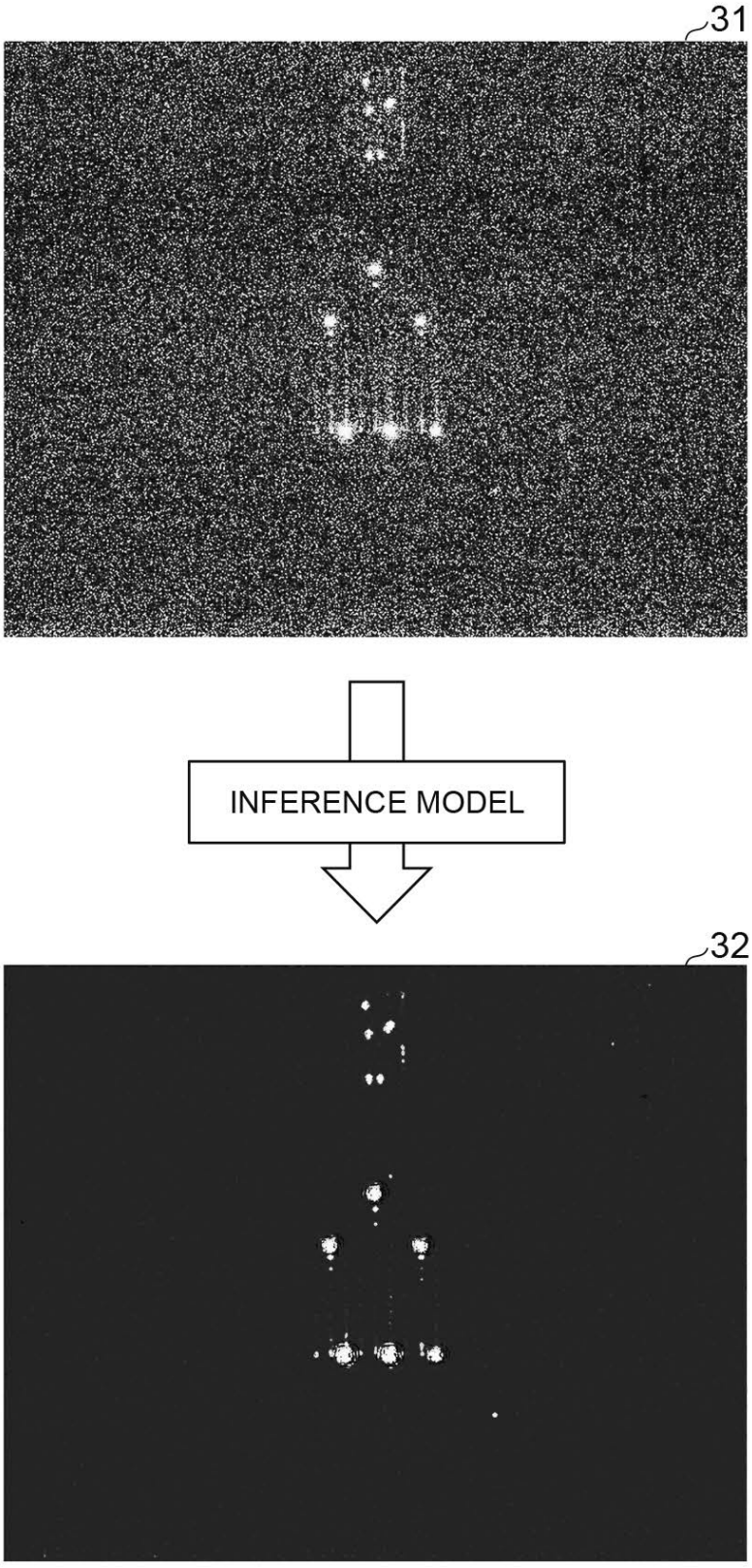

20
NOISE REDUCTION SYSTEM
21
REDUCTION ACQUISITION UNIT
22
IMAGE GENERATION UNIT

***Fig.2***



41
RANDOM CROPPING
BACKGROUND AVERAGE
RANDOM LUMINANCE MAGNIFICATION
BACKGROUND AVERAGE
42
42
42
51
RANDOM CROPPING
BACKGROUND AVERAGE
52
52
52

Fig.3

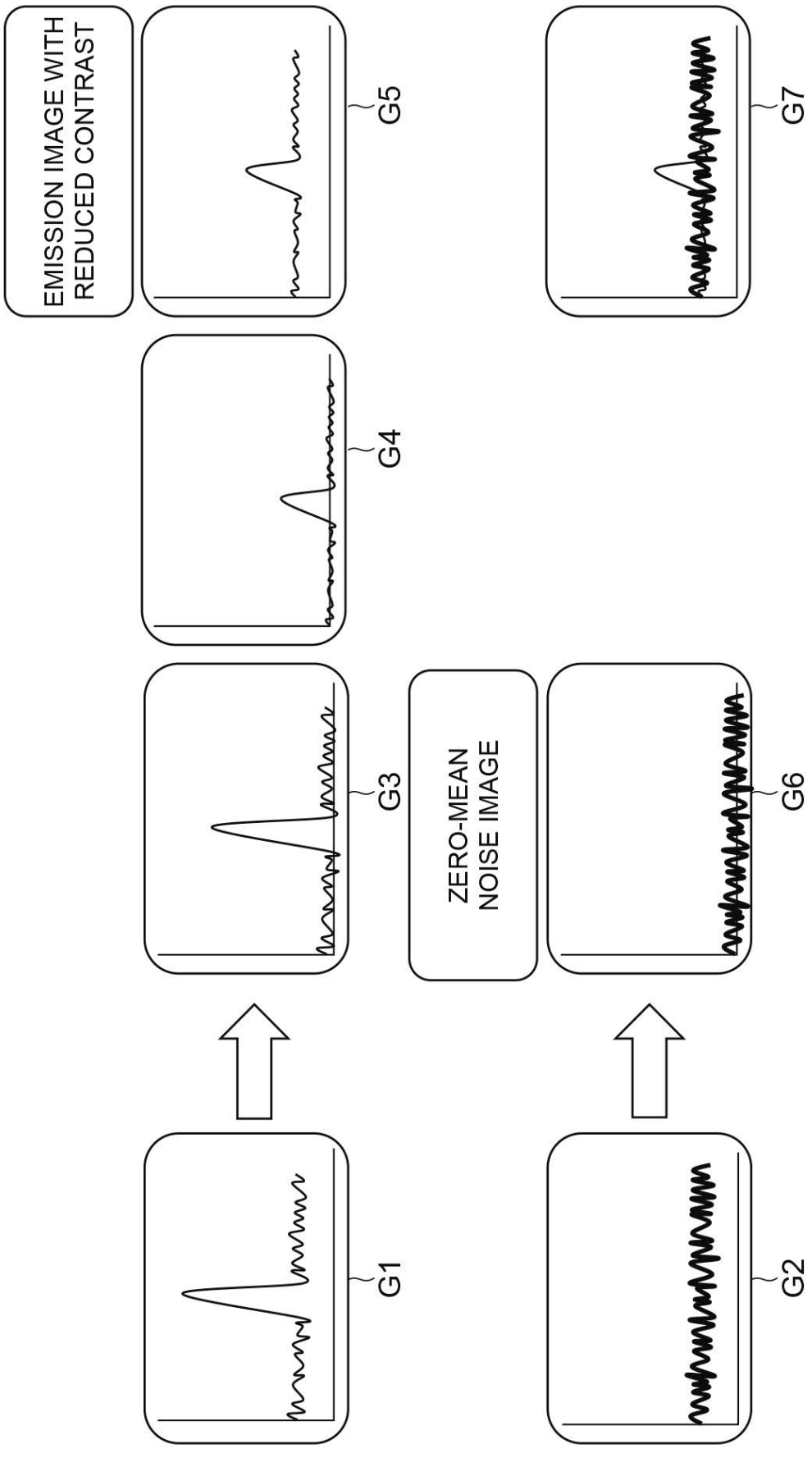

EMISSION IMAGE WITH REDUCED CONTRAST
G5
G4
G3
ZERO-MEAN NOISE IMAGE
G6
G7
G1
G2

*Fig.4*

*Fig.5*

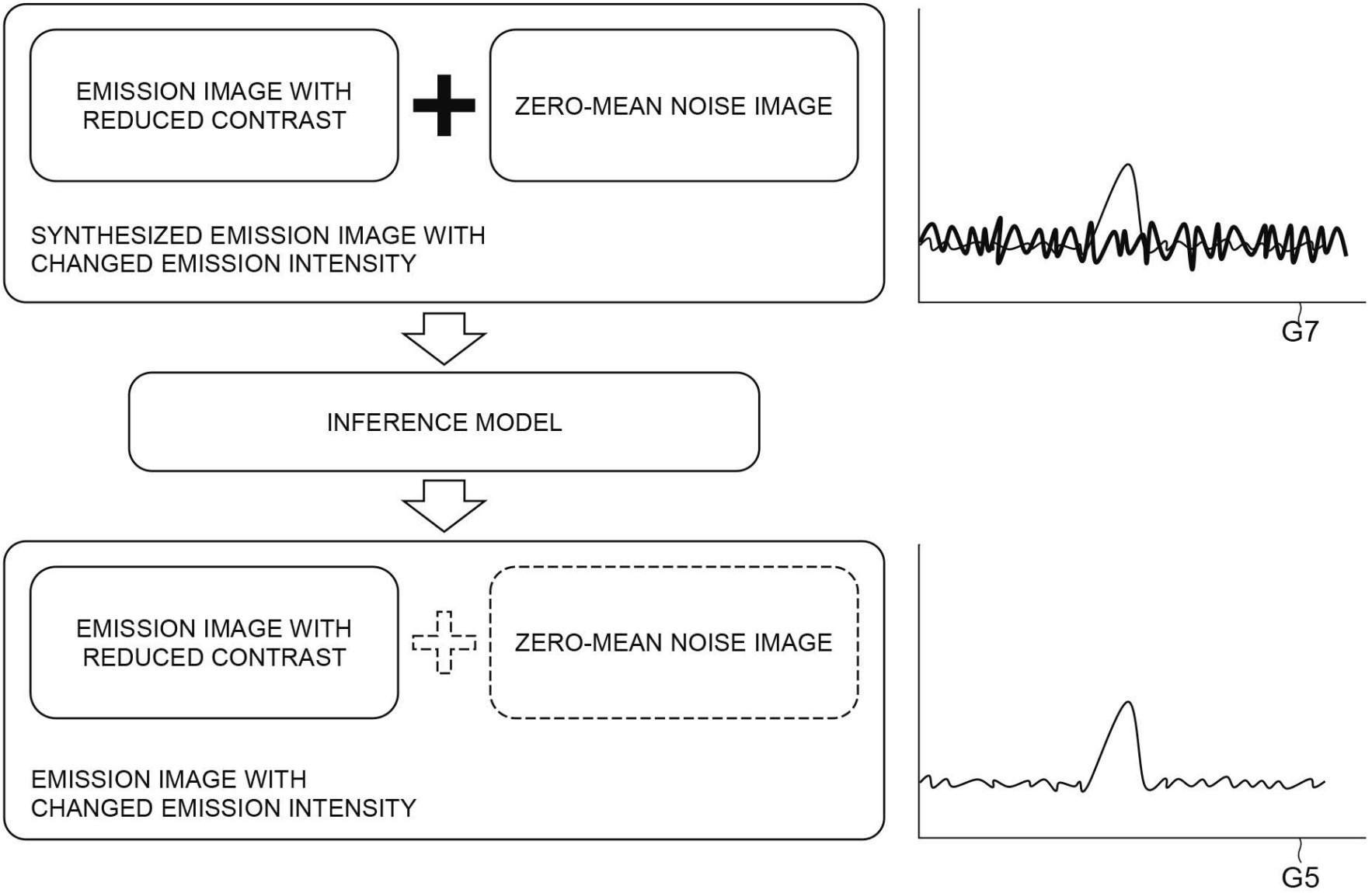

EMISSION IMAGE WITH REDUCED CONTRAST
ZERO-MEAN NOISE IMAGE
SYNTHESIZED EMISSION IMAGE WITH CHANGED EMISSION INTENSITY
G7
INFERENCE MODEL
EMISSION IMAGE WITH REDUCED CONTRAST
ZERO-MEAN NOISE IMAGE
EMISSION IMAGE WITH CHANGED EMISSION INTENSITY
G5

***Fig.6***

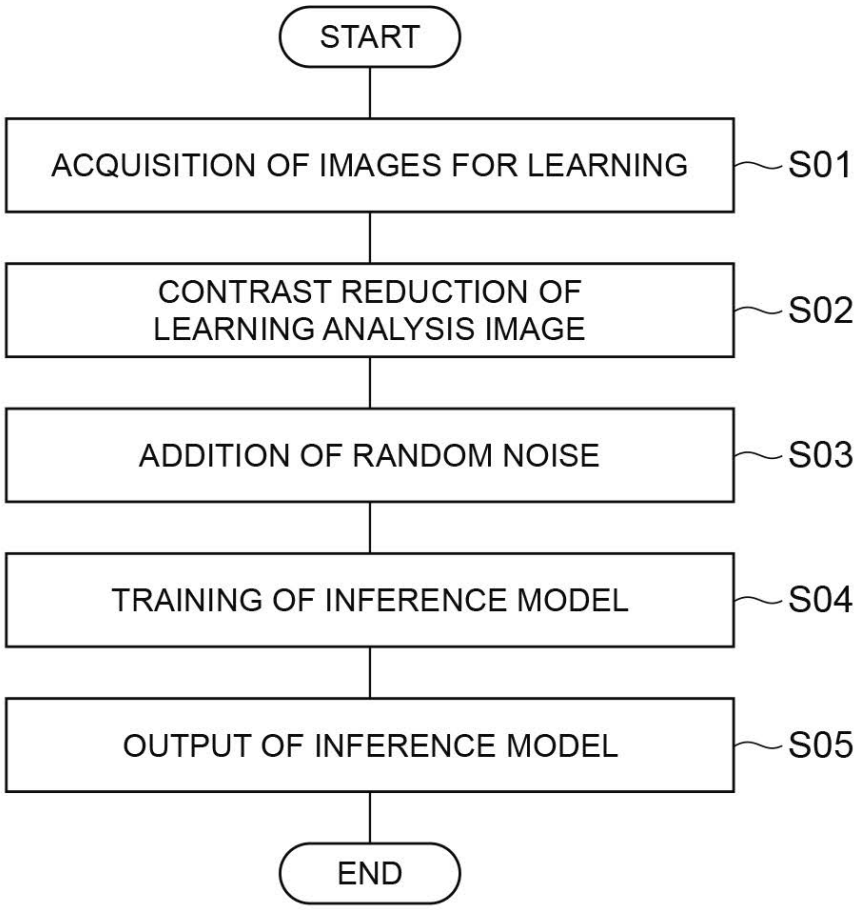

START
ACQUISITION OF IMAGES FOR LEARNING
S01
CONTRAST REDUCTION OF LEARNING ANALYSIS IMAGE
S02
ADDITION OF RANDOM NOISE
S03
TRAINING OF INFERENCE MODEL
S04
OUTPUT OF INFERENCE MODEL
S05
END

***Fig.7***

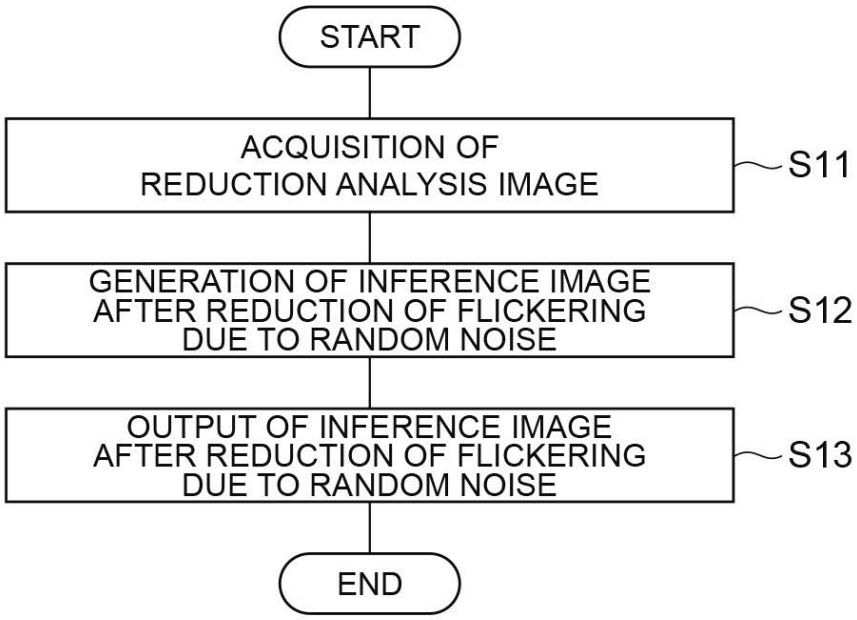
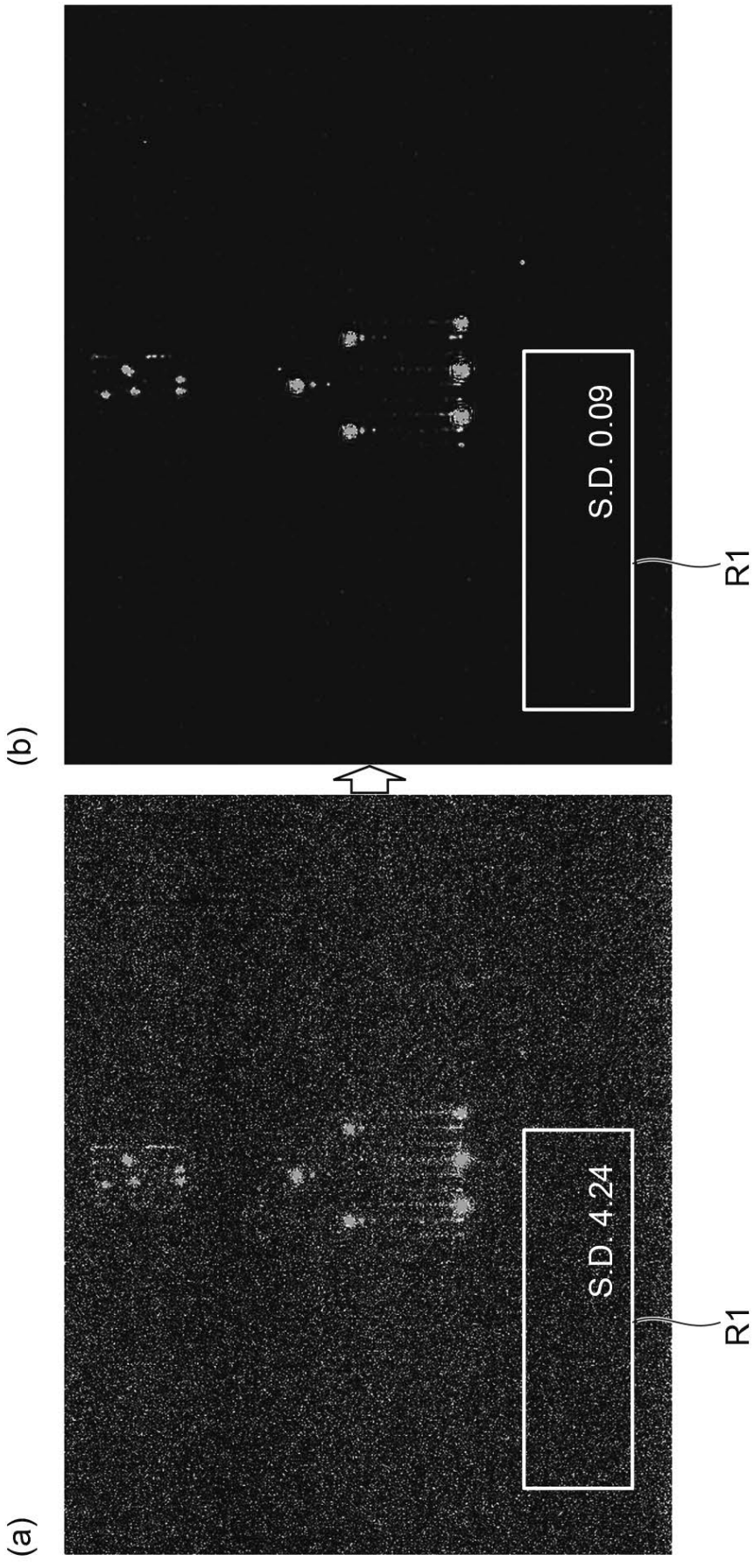

START
ACQUISITION OF REDUCTION ANALYSIS IMAGE
S11
GENERATION OF INFERENCE IMAGE AFTER REDUCTION OF FLICKERING DUE TO RANDOM NOISE
S12
OUTPUT OF INFERENCE IMAGE AFTER REDUCTION OF FLICKERING DUE TO RANDOM NOISE
S13
END

*Fig.8*



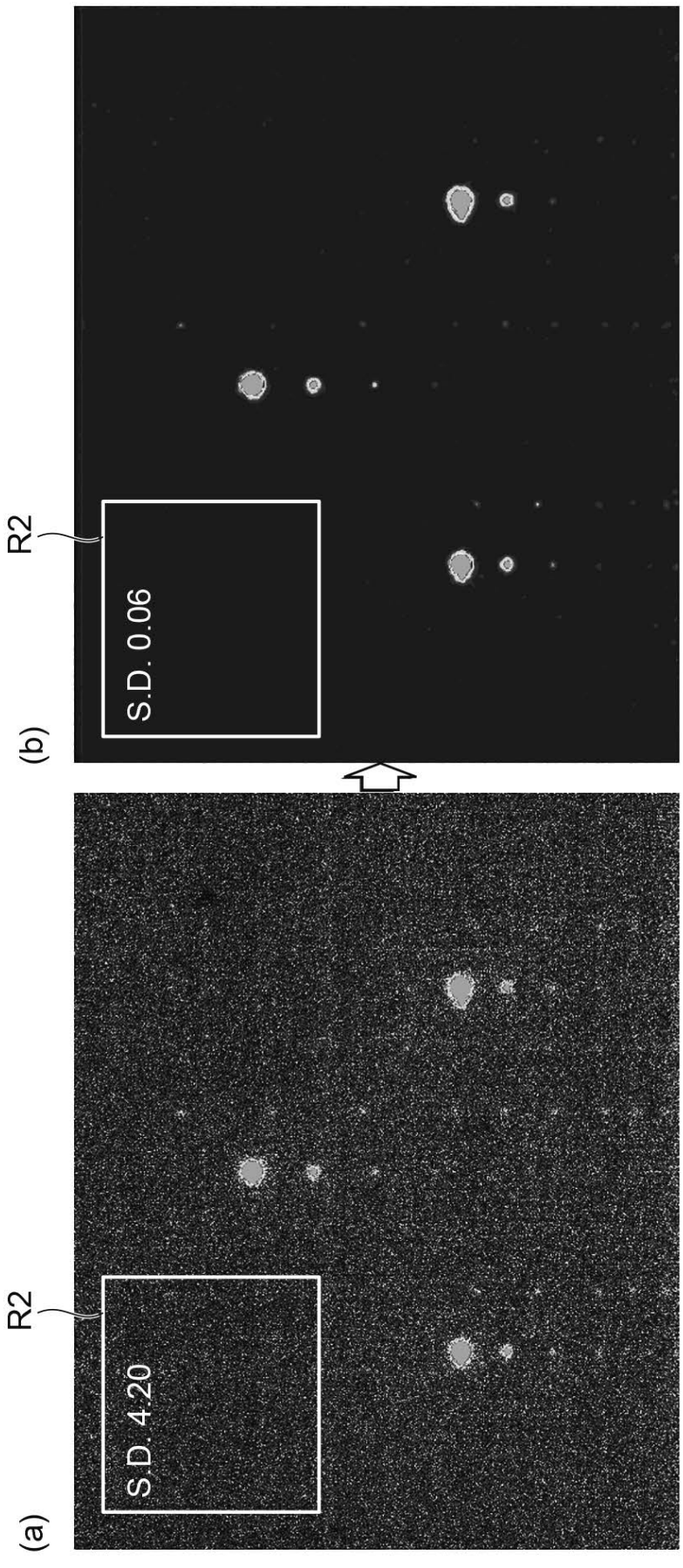



*Fig.9*

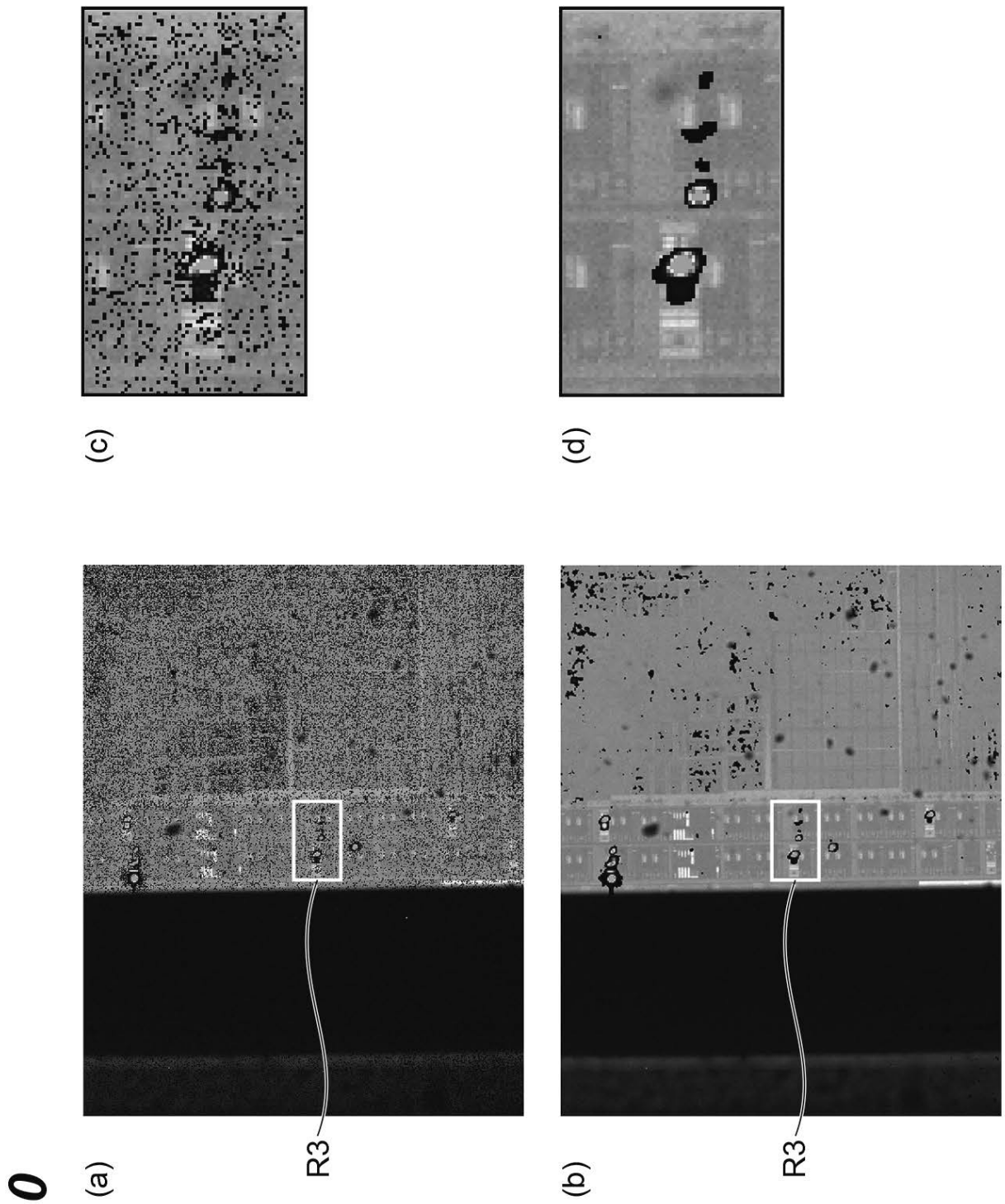
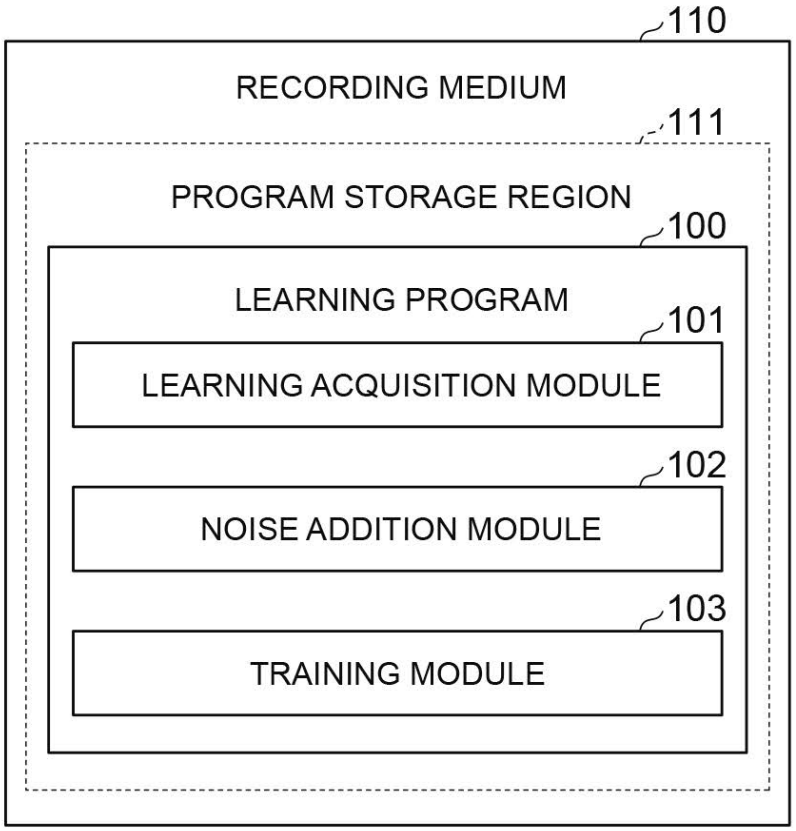


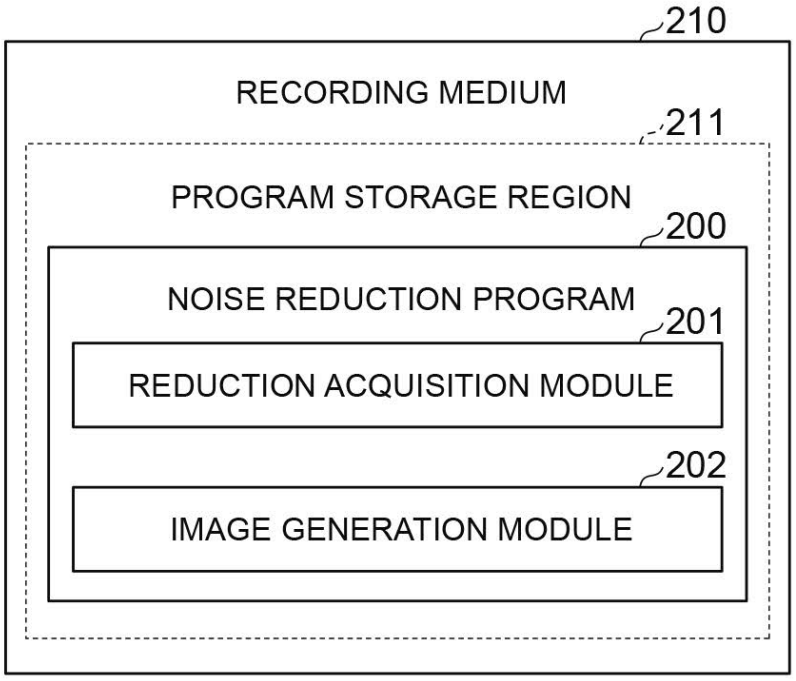

Fig.10

***Fig.11***

(a)


110
RECORDING MEDIUM
111
PROGRAM STORAGE REGION
100
LEARNING PROGRAM
101
LEARNING ACQUISITION MODULE
102
NOISE ADDITION MODULE
103
TRAINING MODULE

(b)


210
RECORDING MEDIUM
211
PROGRAM STORAGE REGION
200
NOISE REDUCTION PROGRAM
201
REDUCTION ACQUISITION MODULE
202
IMAGE GENERATION MODULE