

FIG. 1

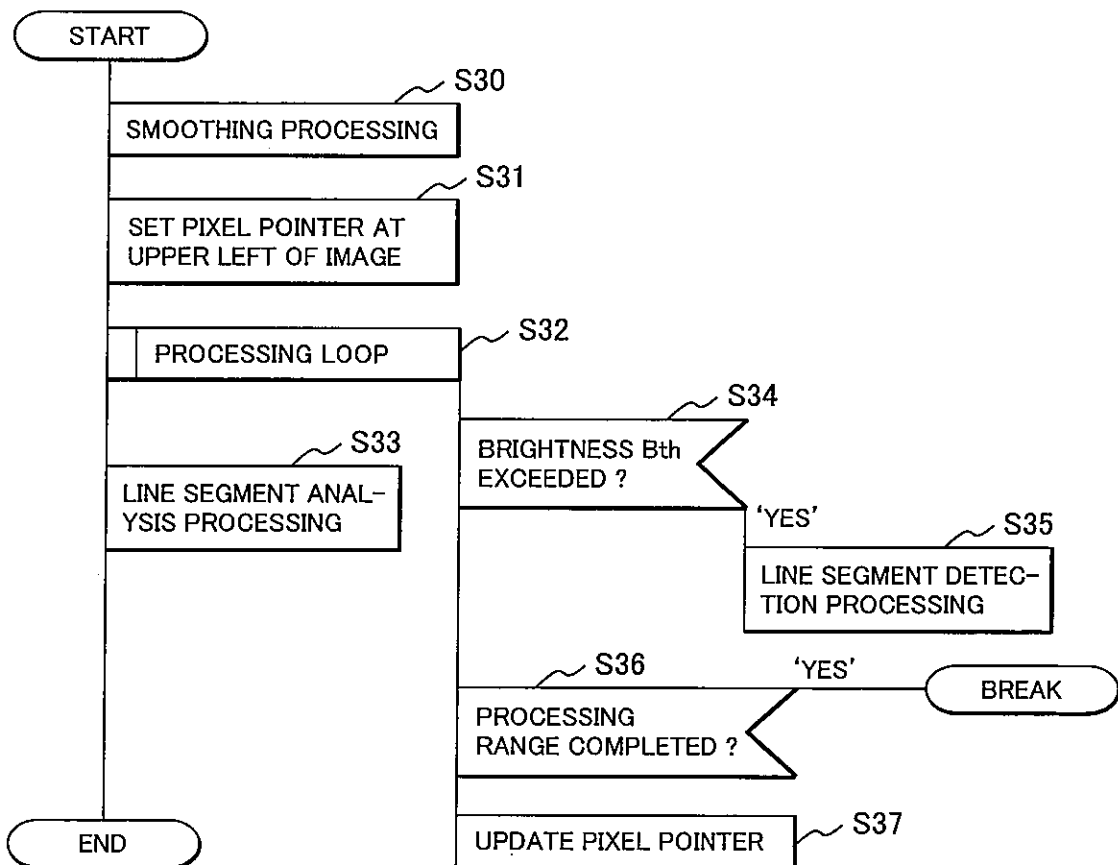
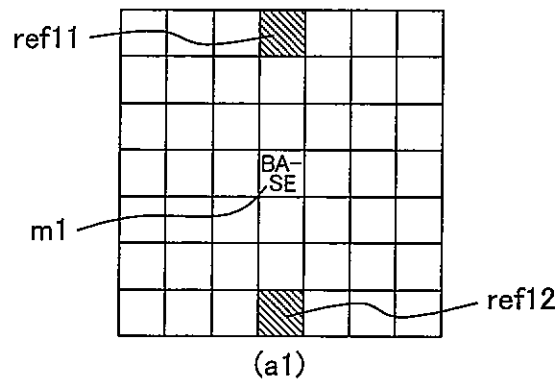
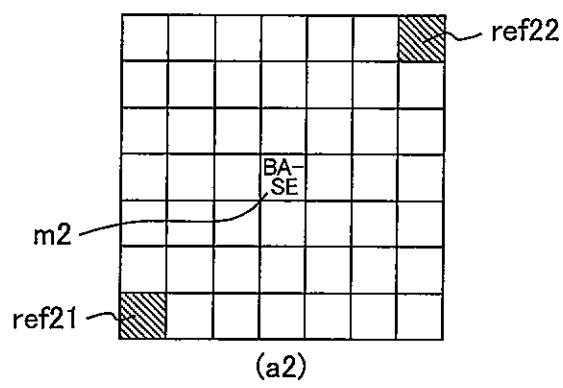
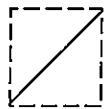
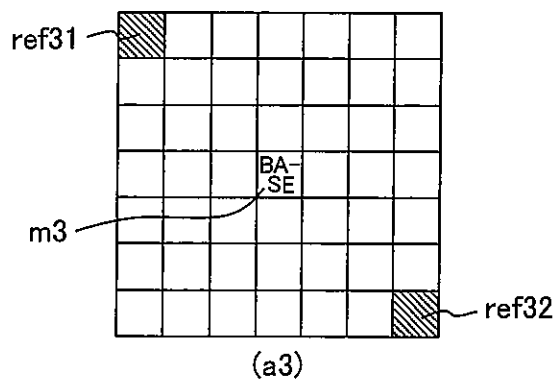


FIG. 2

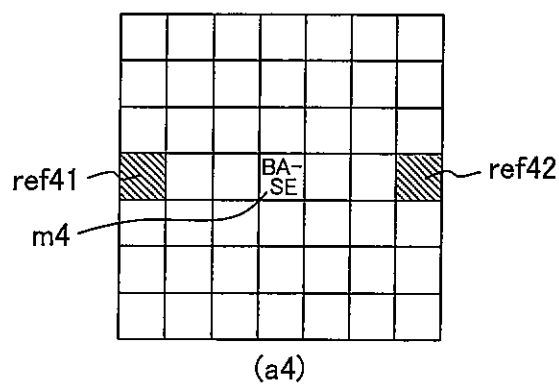
(b1)



(b2)



(b3)



(b4)

FIG. 3A

X-RAY IMAGE

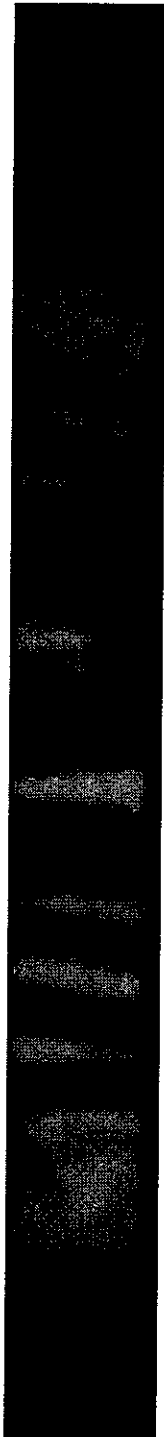


FIG. 3B

CONCEPTUAL
RENDERING OF
X-RAY IMAGE

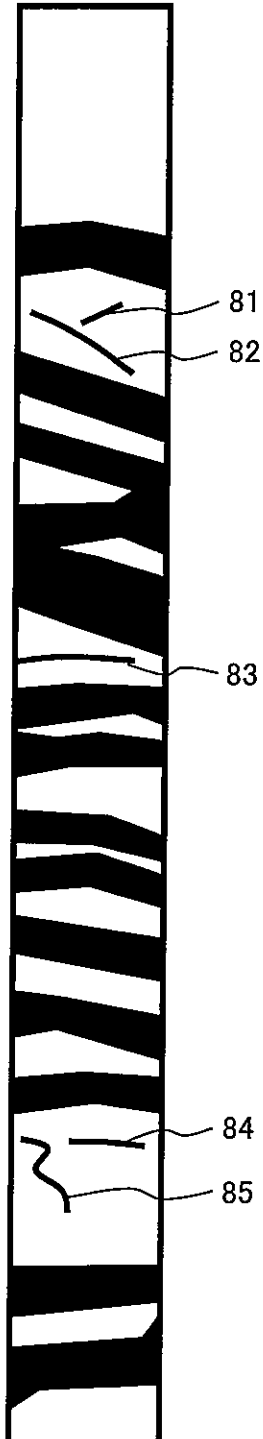


FIG. 3C

LINE SEGMENT
AGGREGATION
IMAGE 80



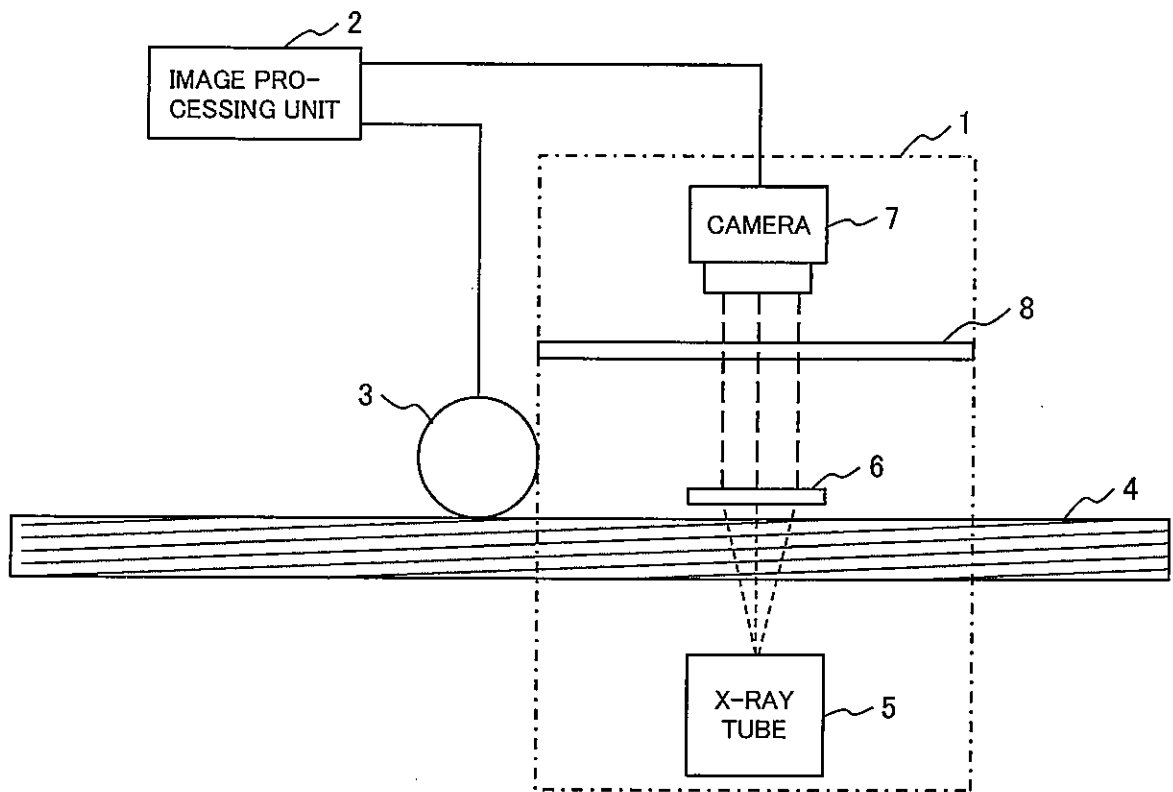
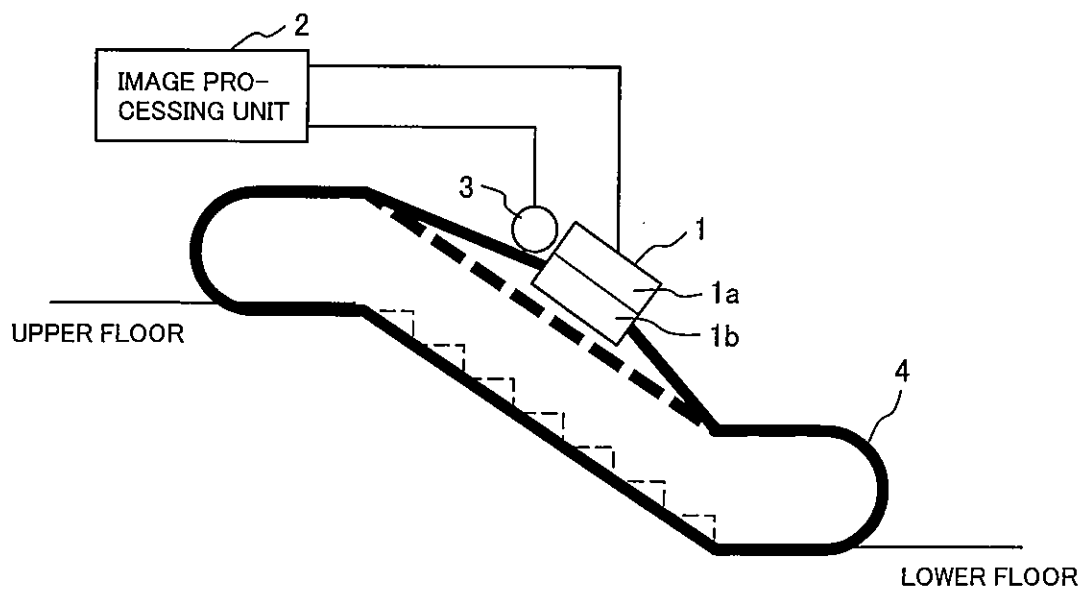
FIG. 4A**FIG. 4B**

FIG. 5

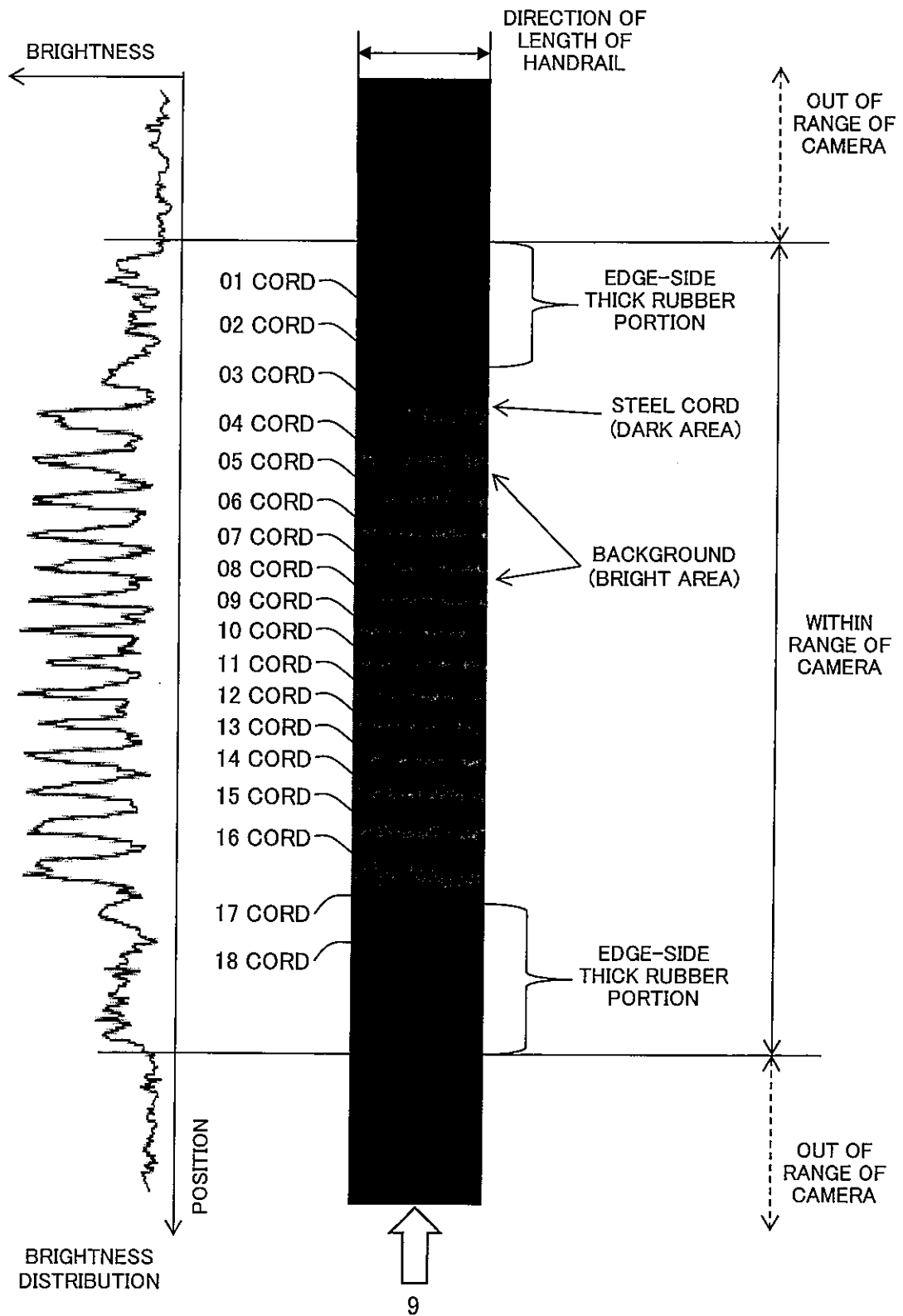


FIG. 6

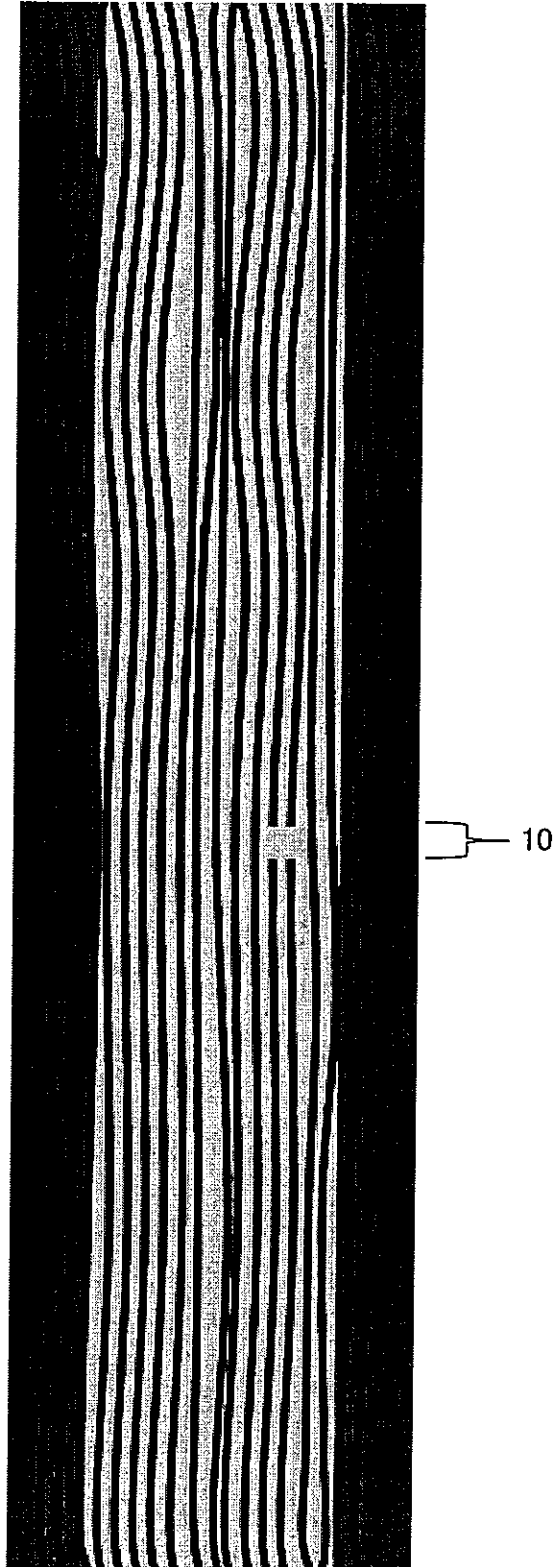


FIG. 7A

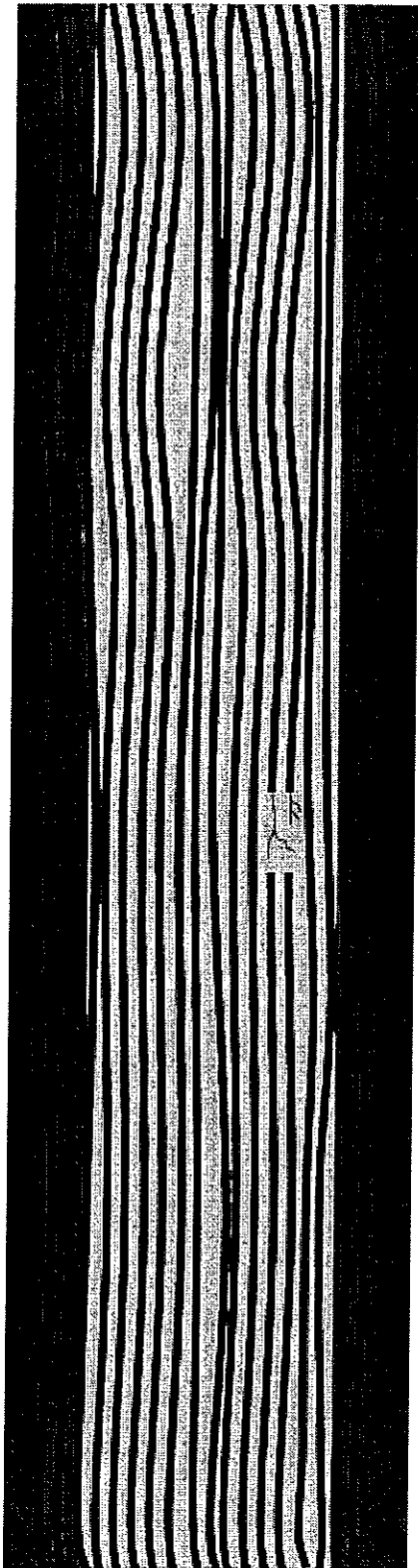


FIG. 7B

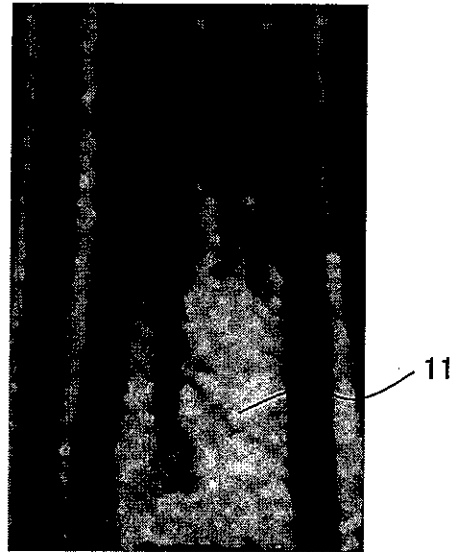


FIG. 7C

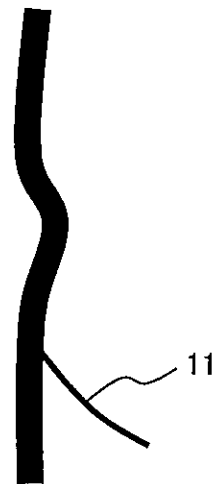


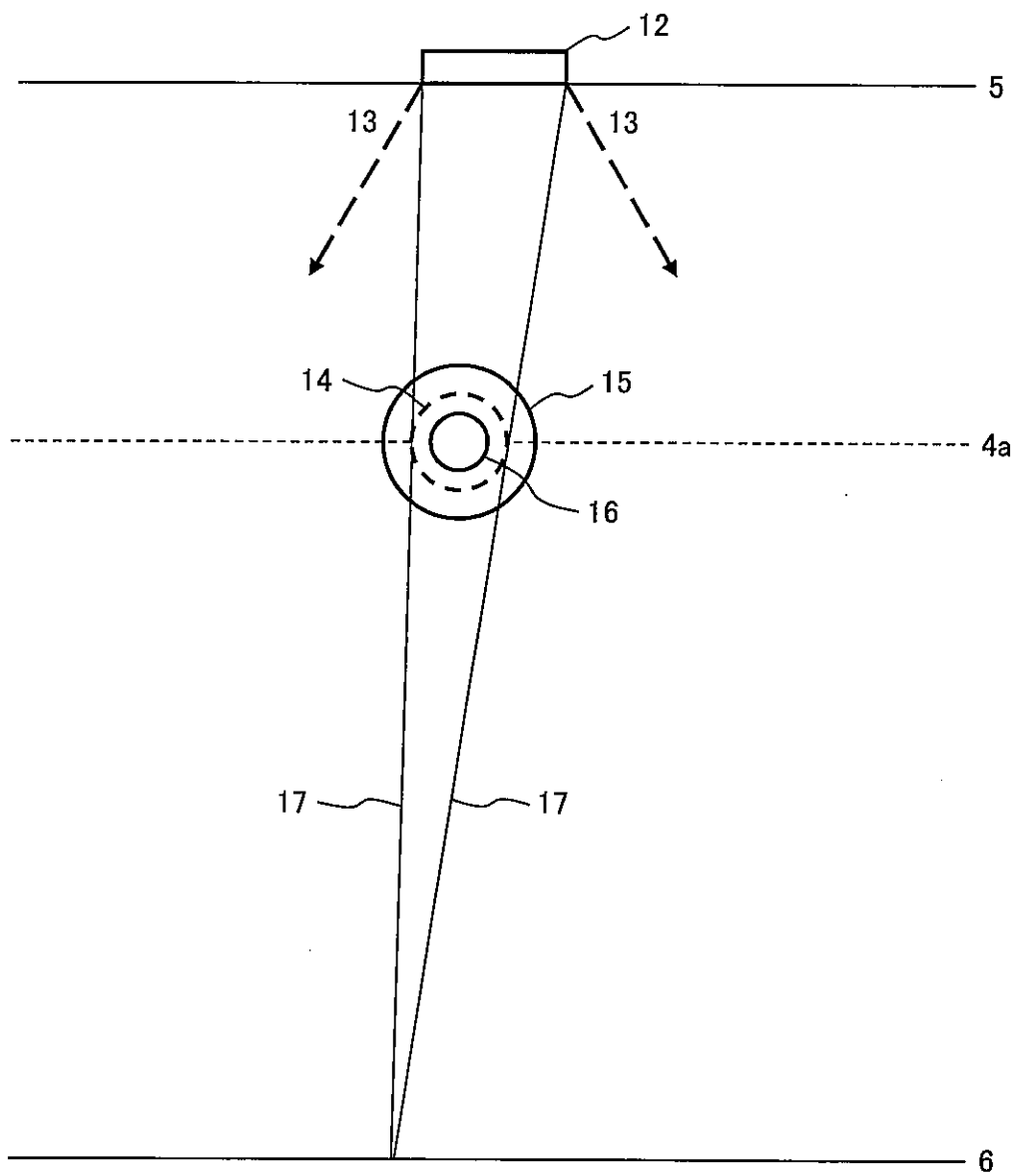
FIG. 8

FIG. 9

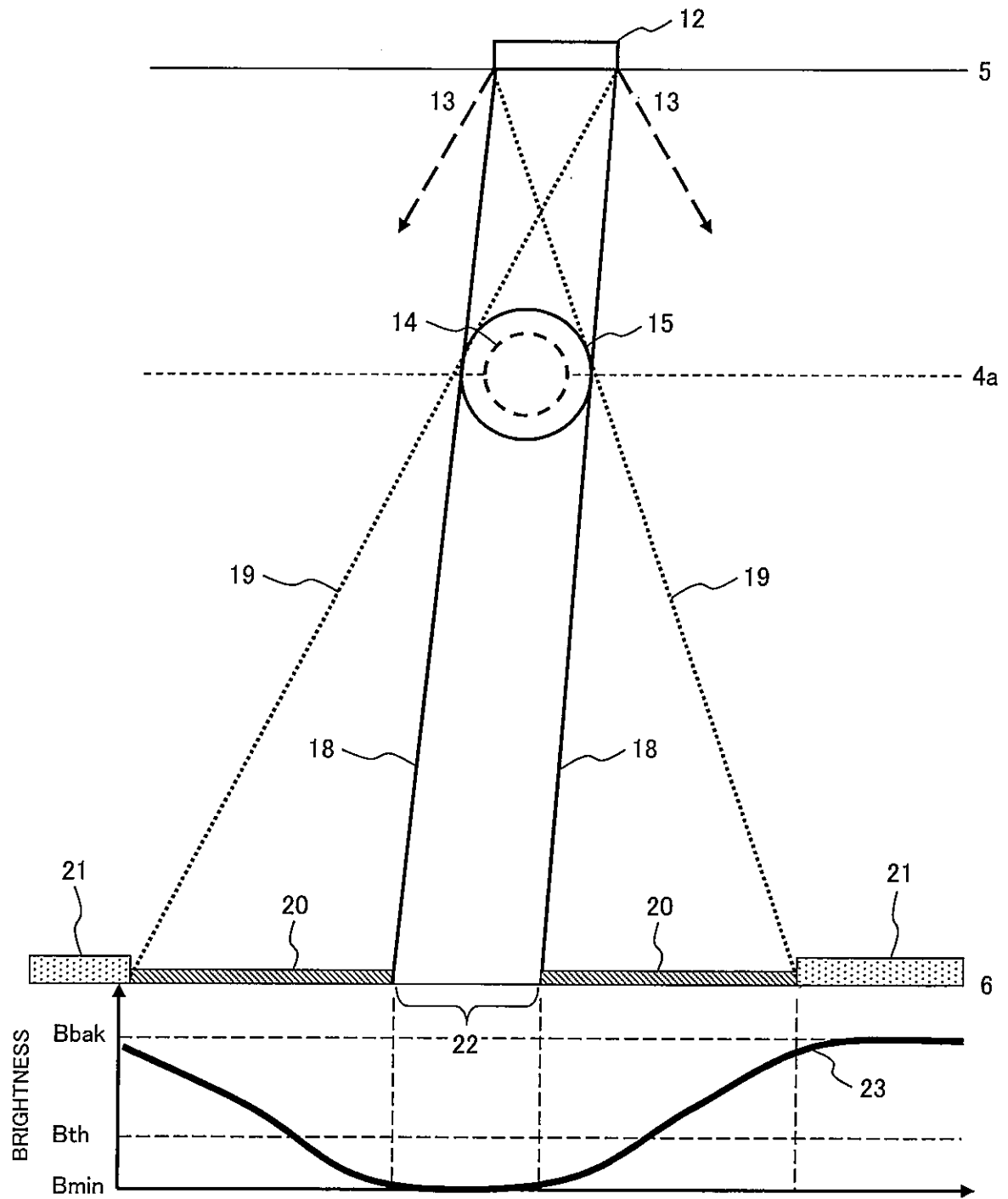


FIG. 10

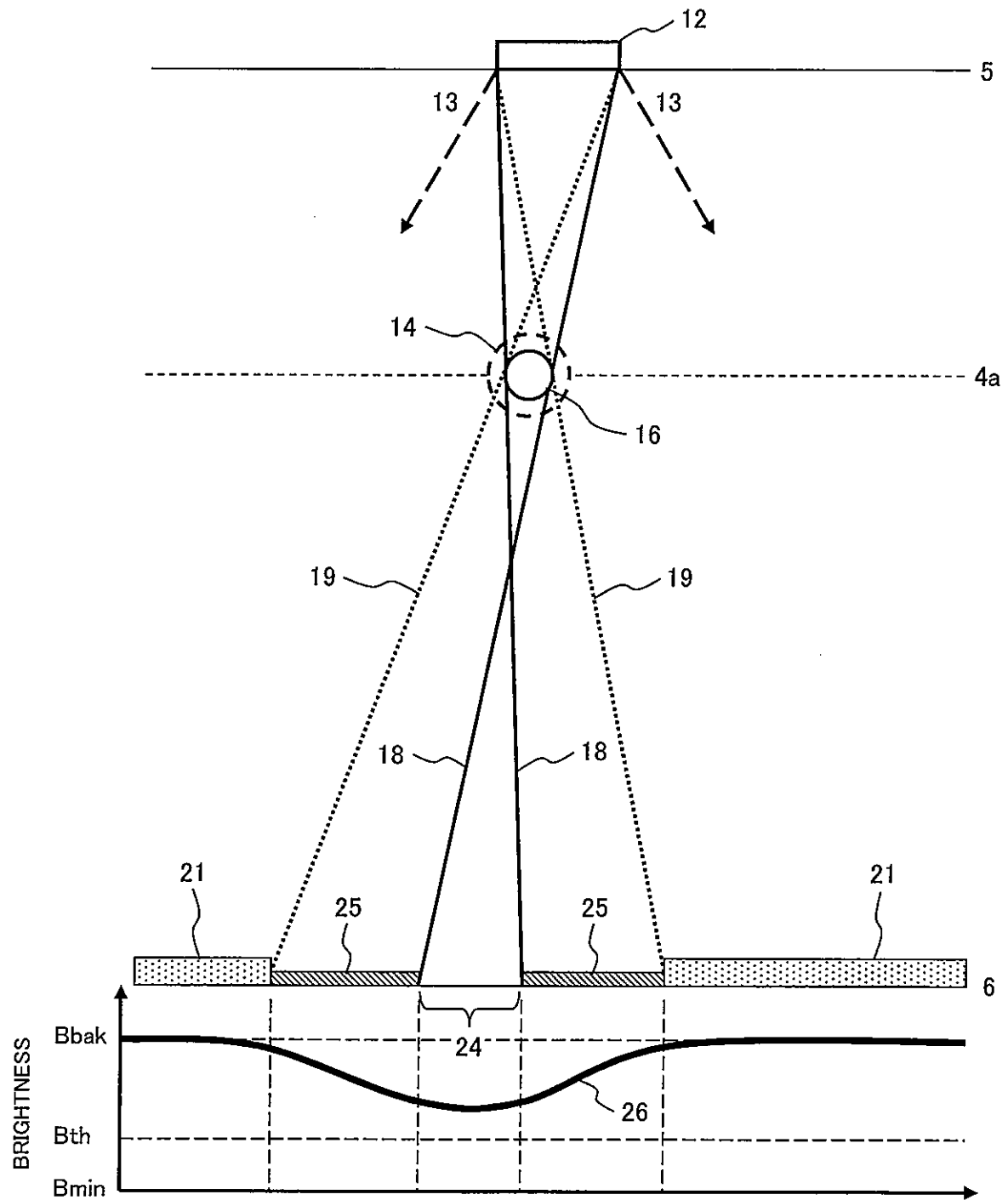


FIG. 11

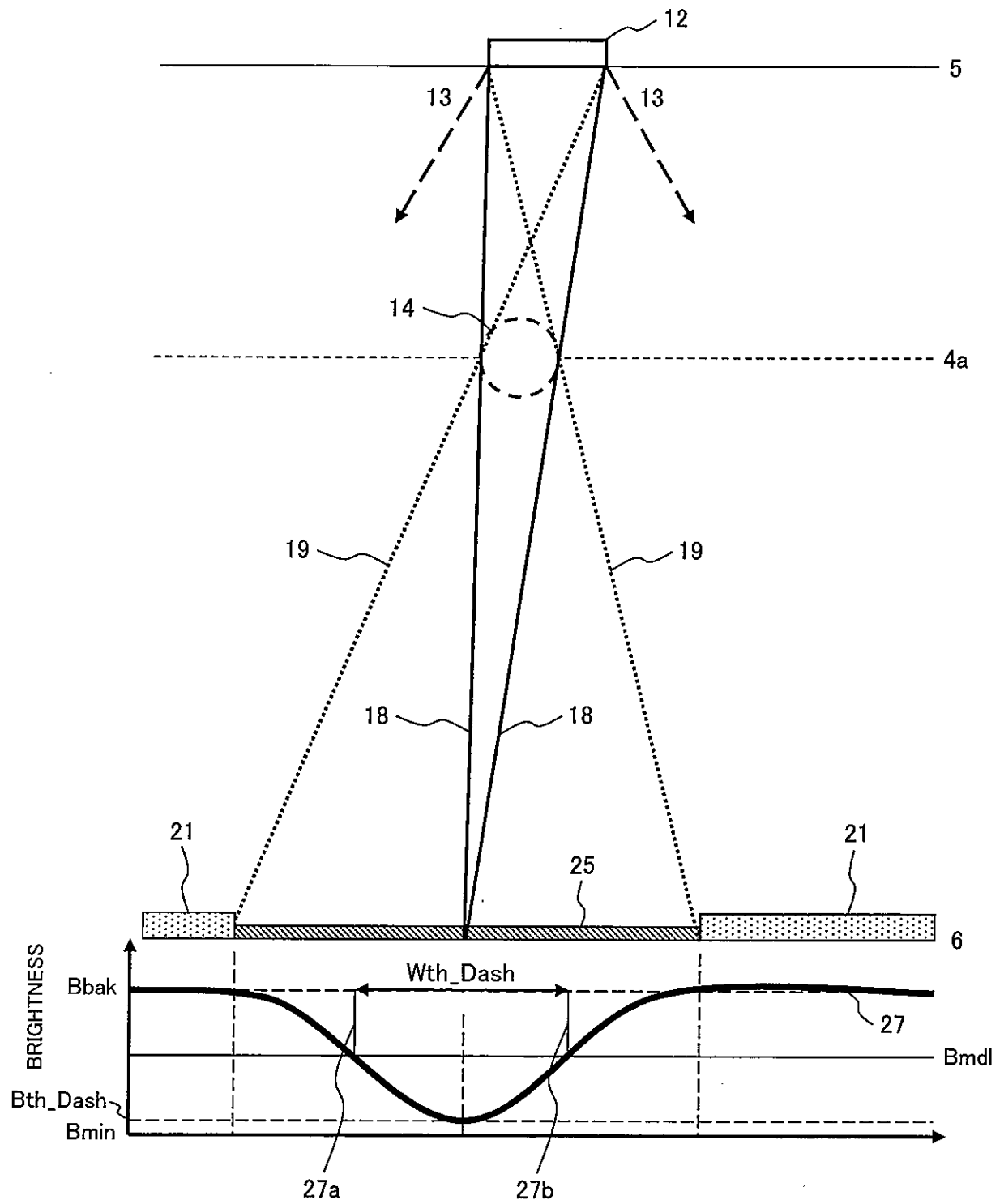


FIG. 12

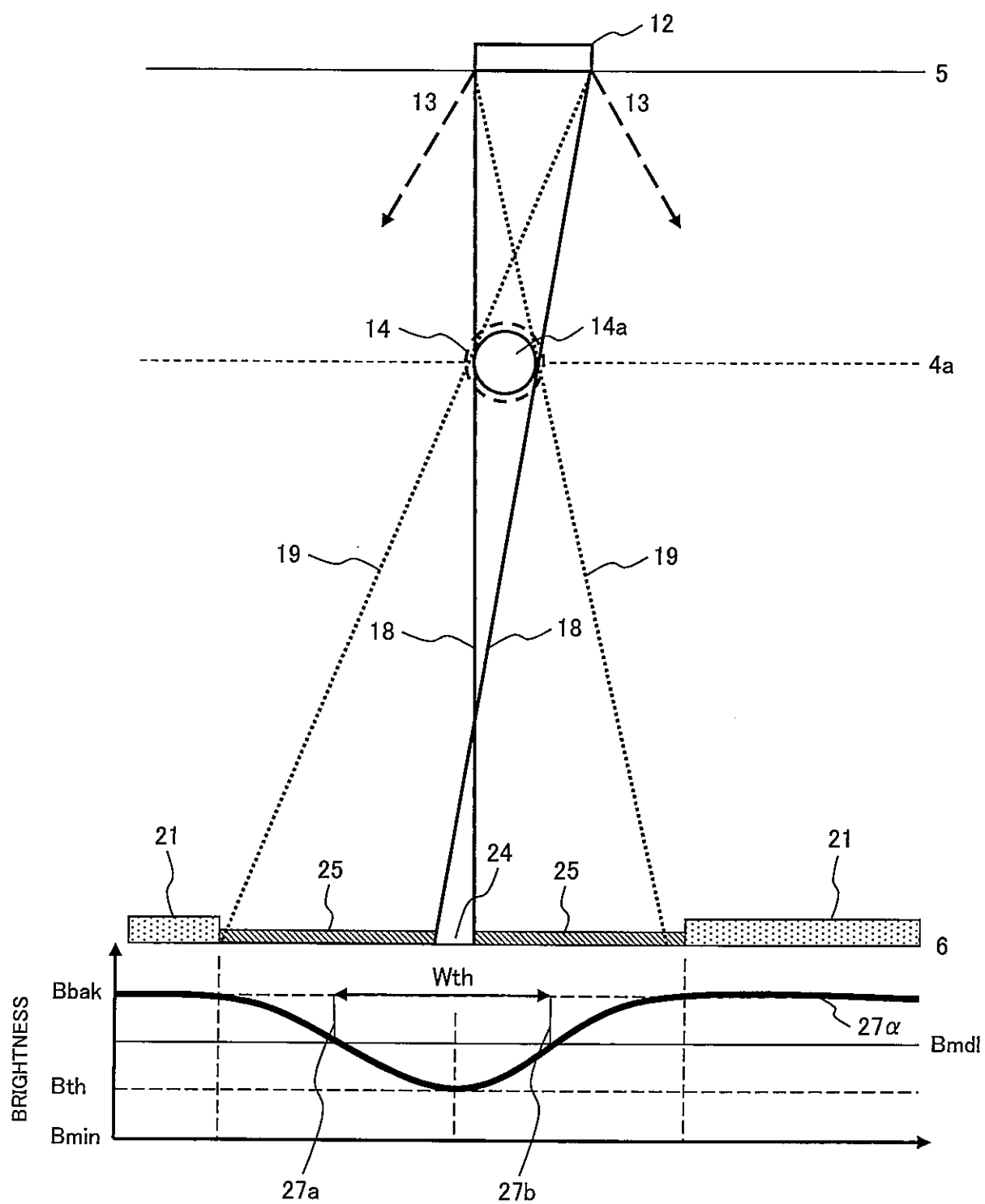


FIG. 13

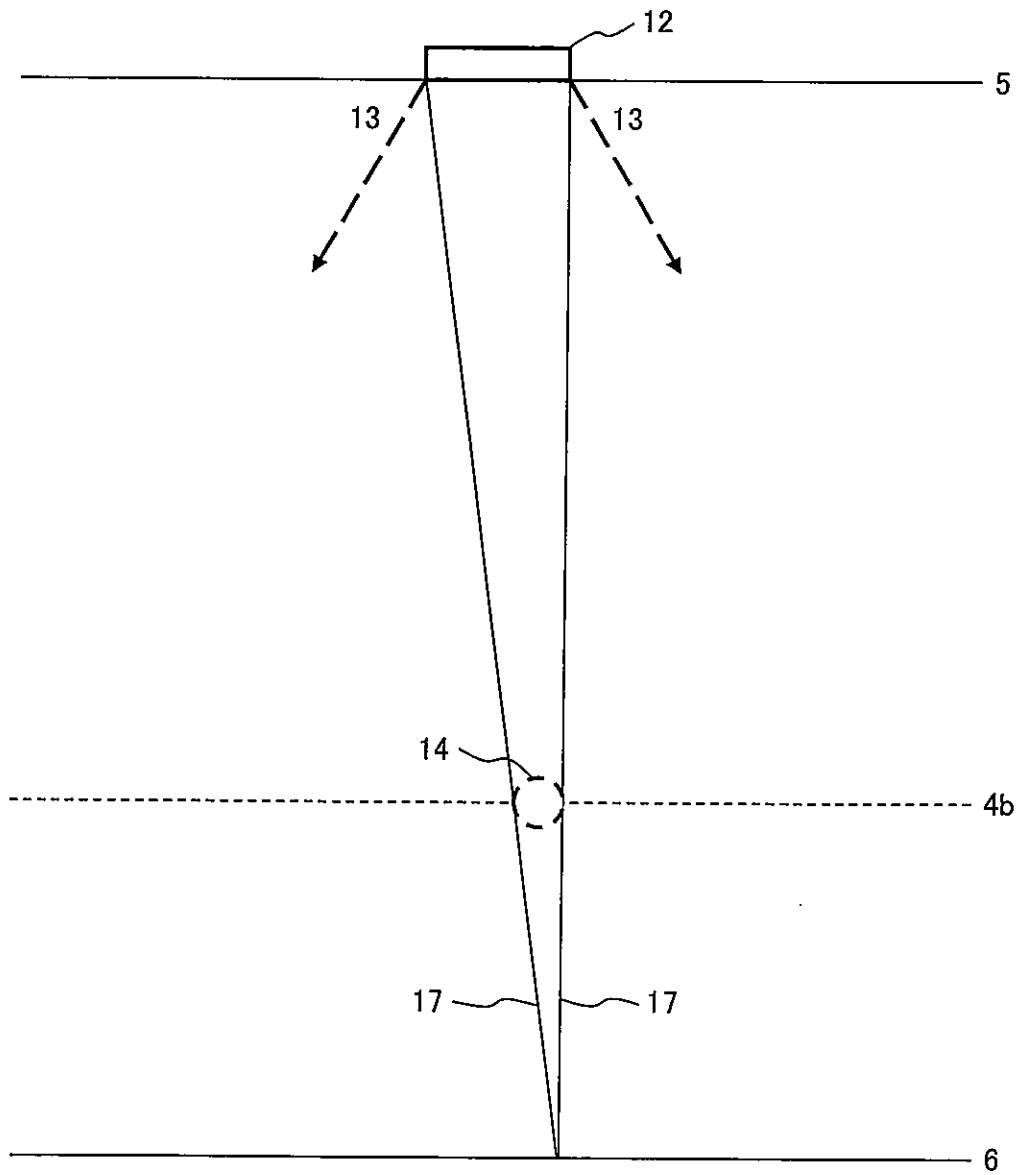


FIG. 14

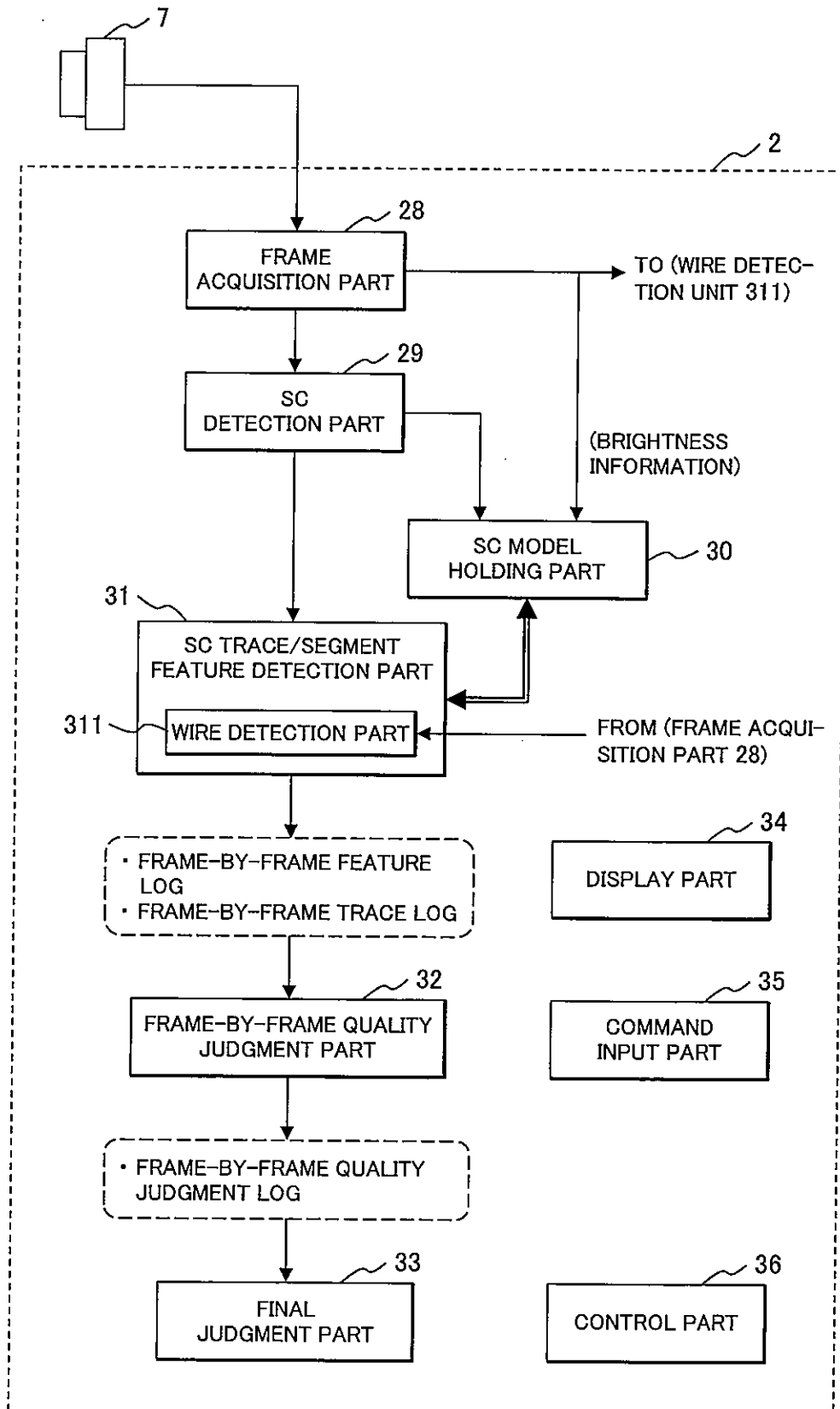


FIG. 15

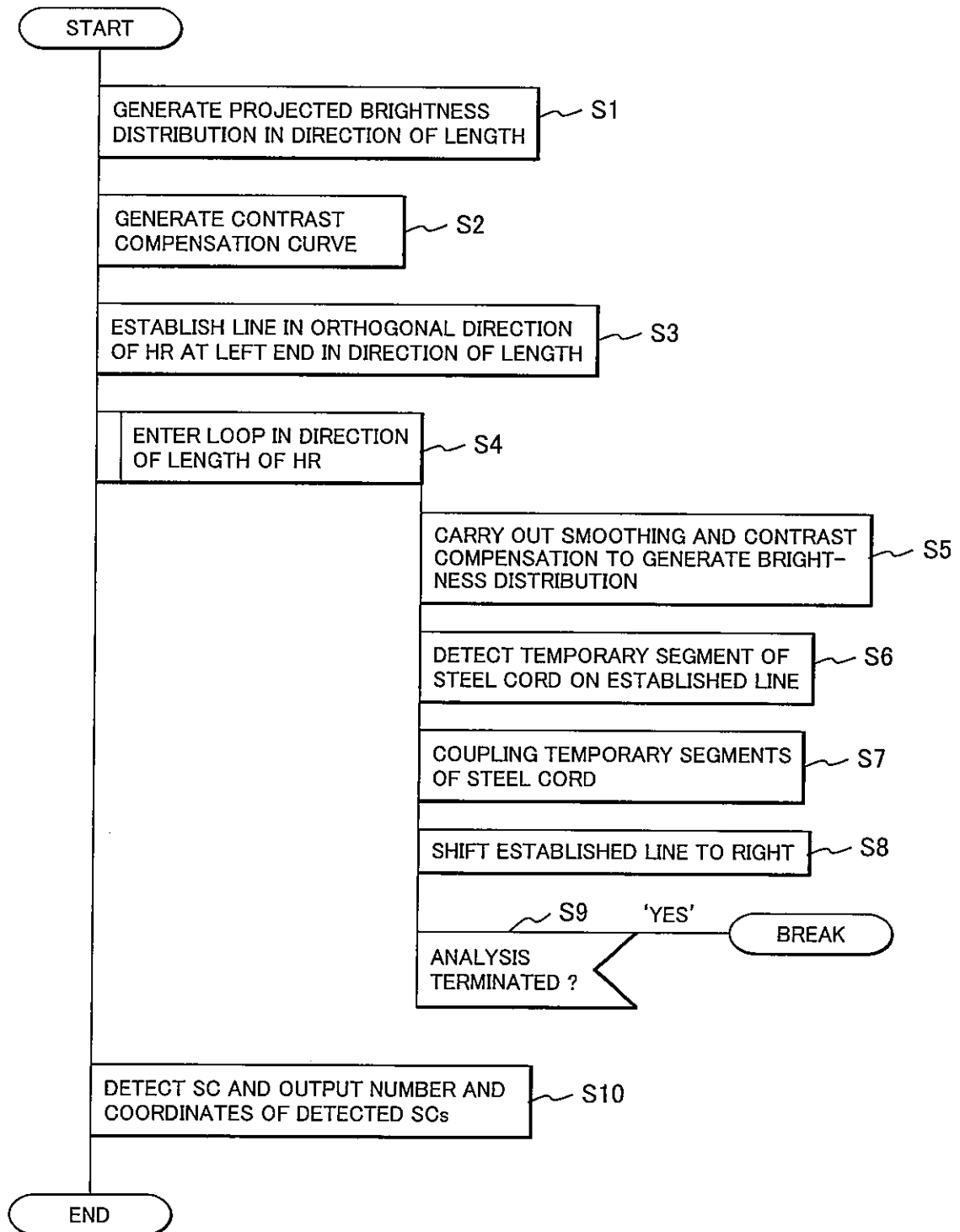


FIG. 16A

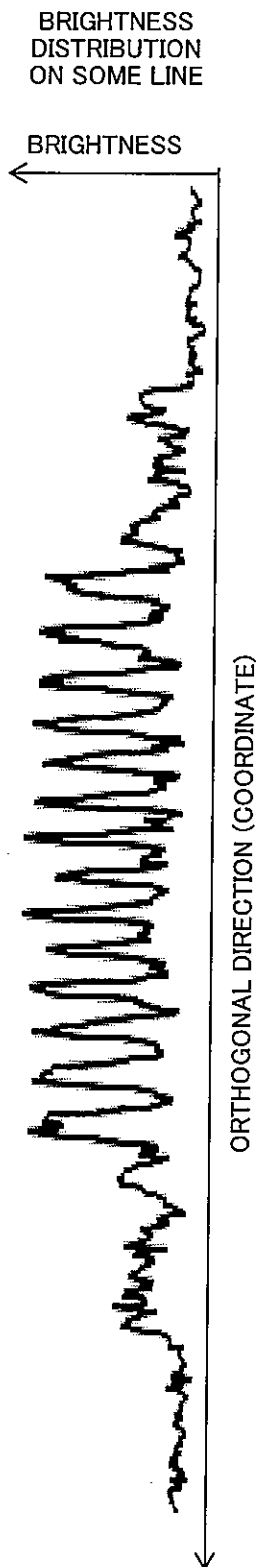


FIG. 16B

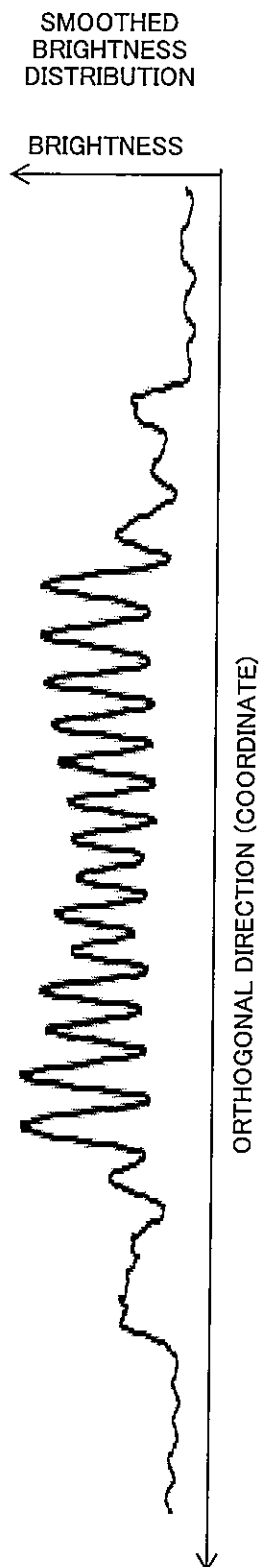


FIG. 16C

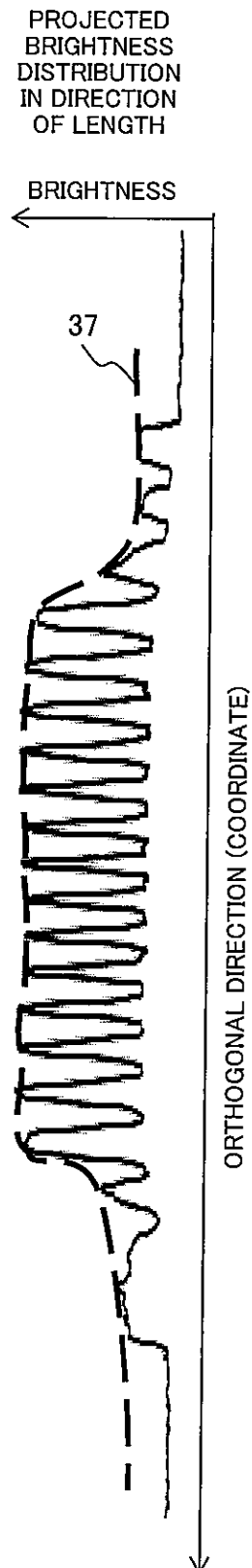


FIG. 16D

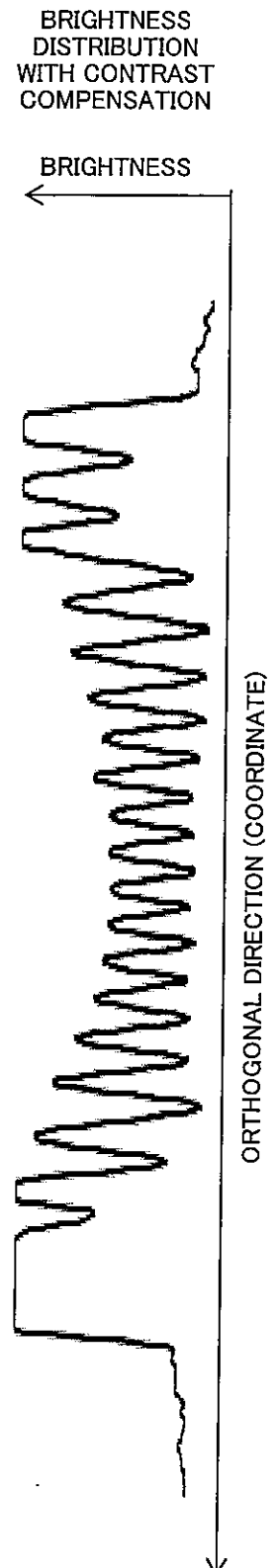


FIG. 17A

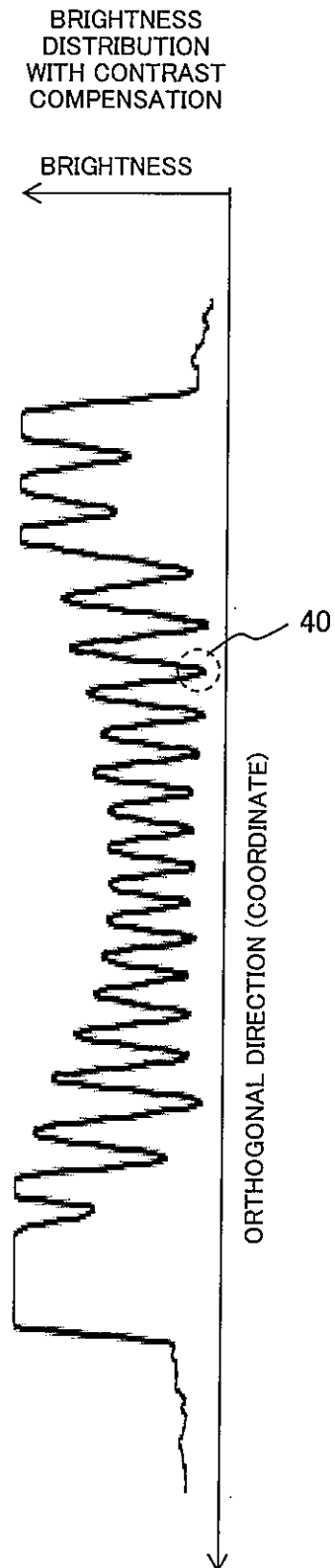


FIG. 17B

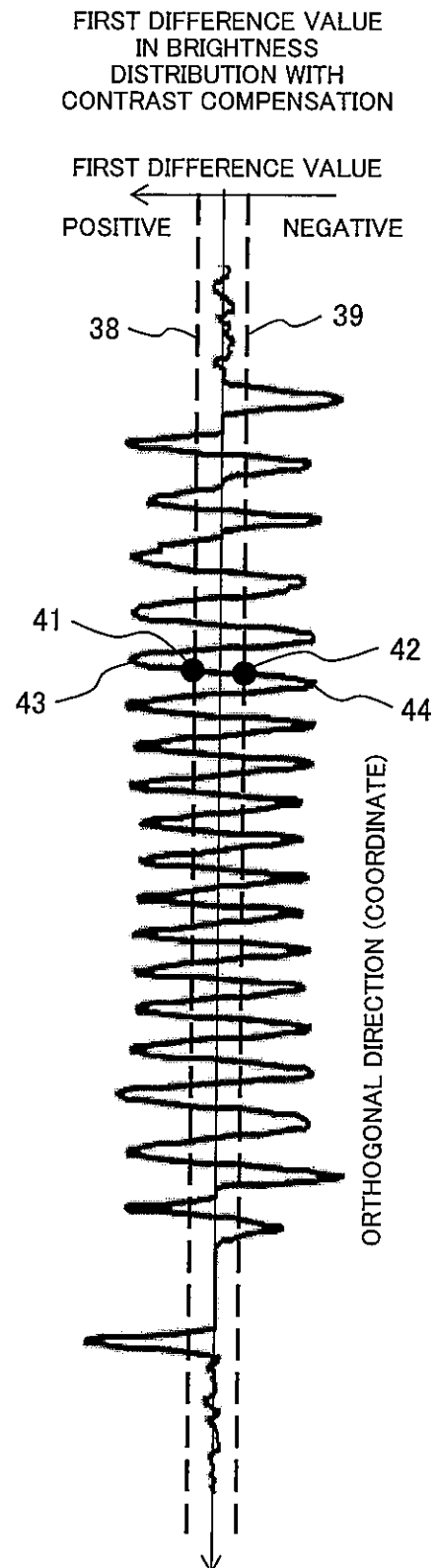


FIG. 18A

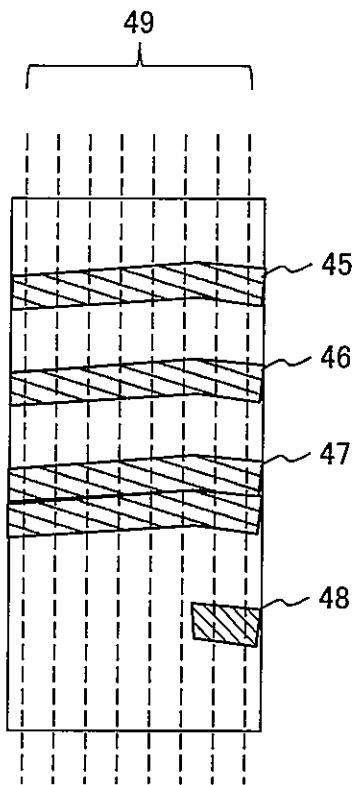


FIG. 18B

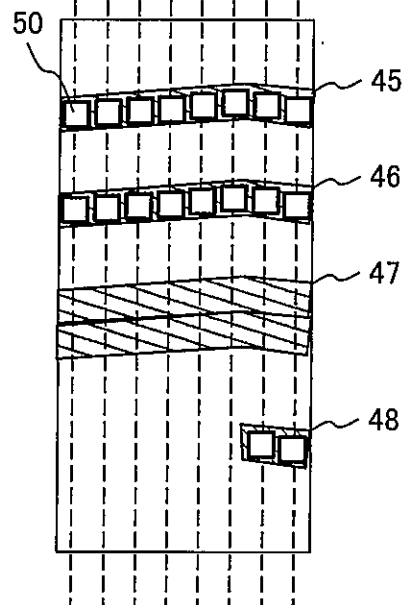


FIG. 18C

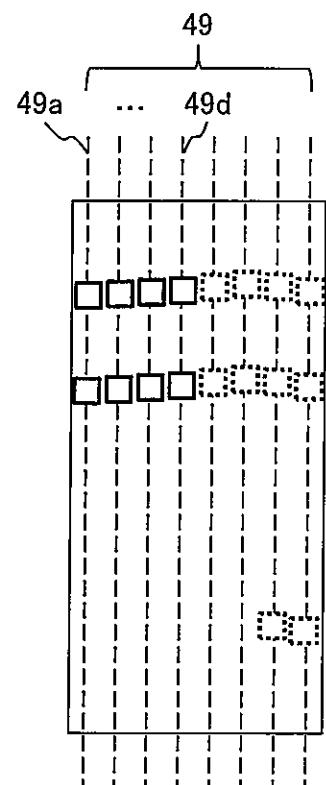


FIG. 18D

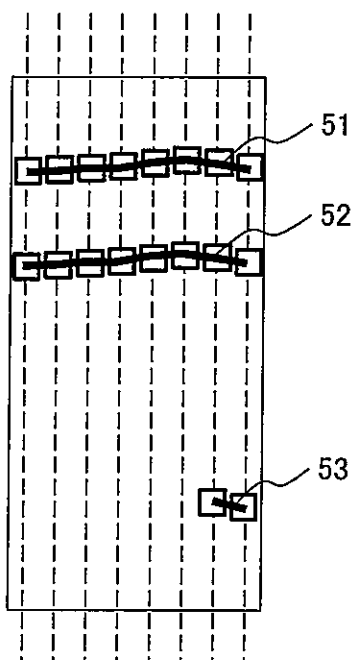


FIG. 19

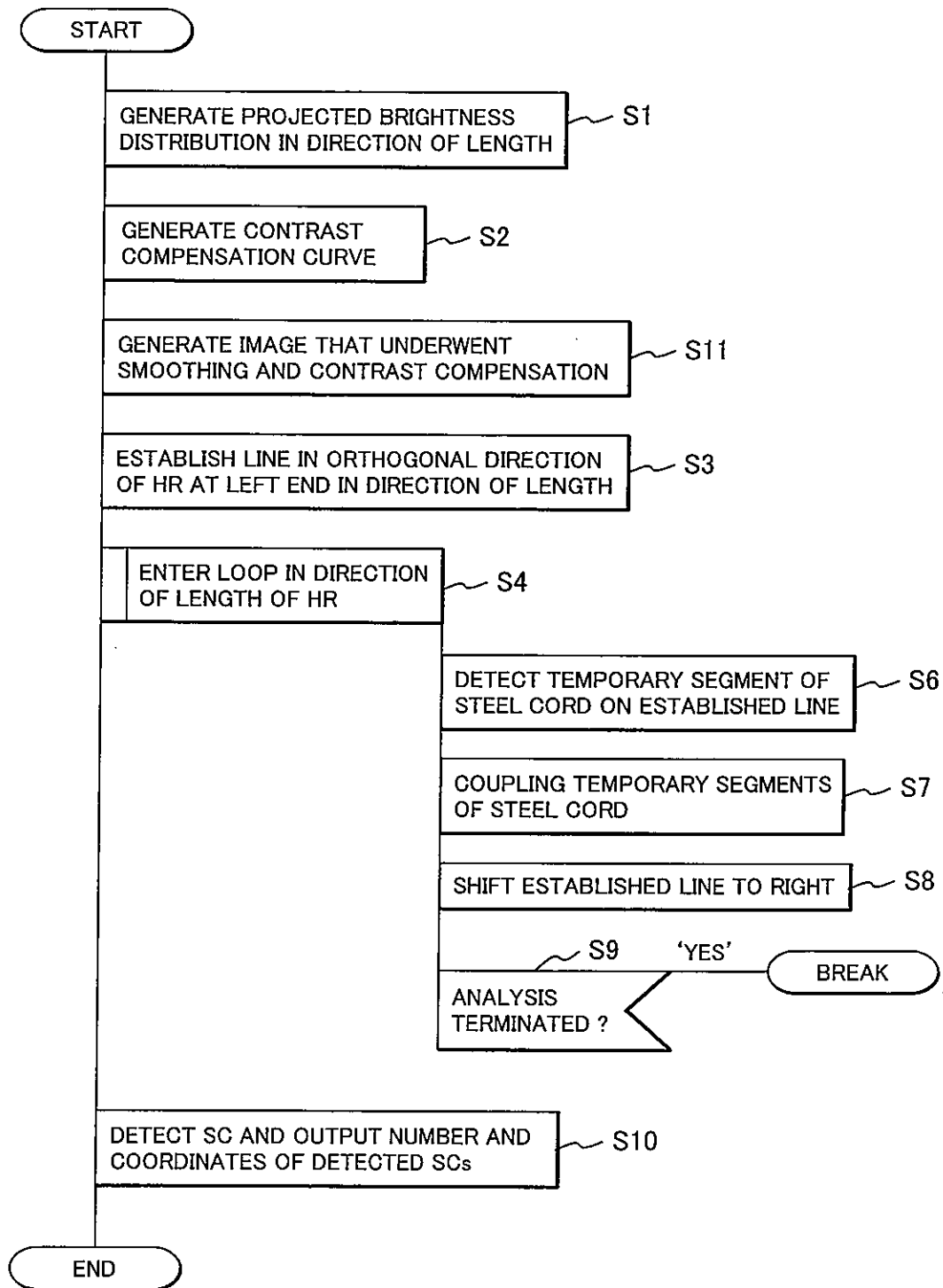


FIG. 20A

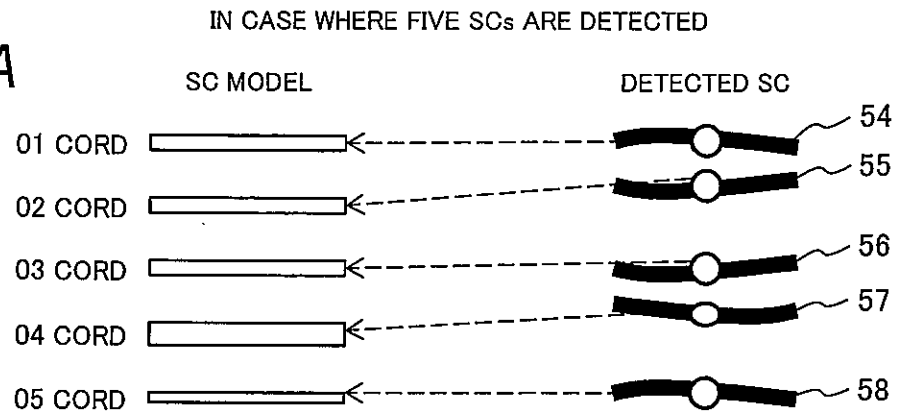


FIG. 20B

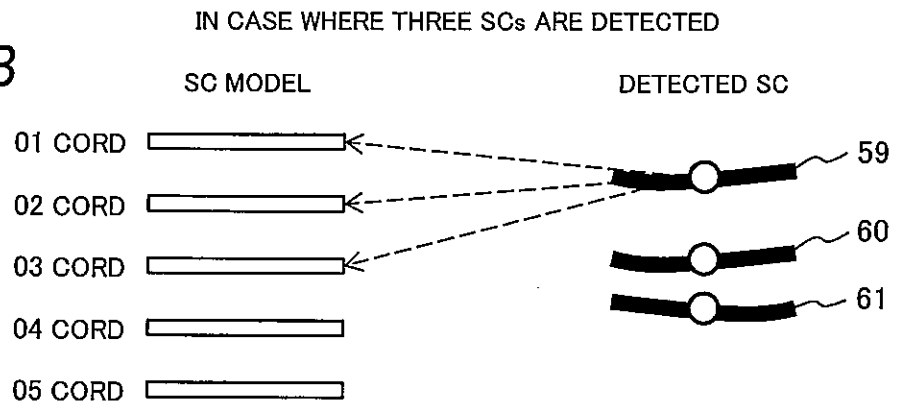


FIG. 20C

DISTANCE TABLE

	DETECTION 59	DETECTION 60	DETECTION 61	MIN
01 CORD	d11	*	*	d11
02 CORD	d21	d22	*	min (d21,d22)
03 CORD	d31	d32	d33	min (d31,d32,d33)
04 CORD	*	d42	d43	min (d42,d43)
05 CORD	*	*	d53	d53

FIG. 21

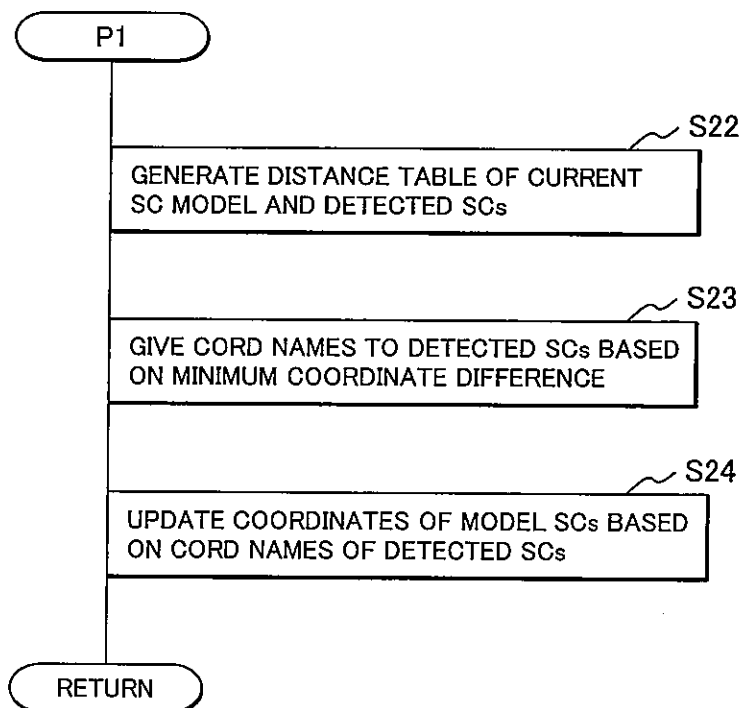
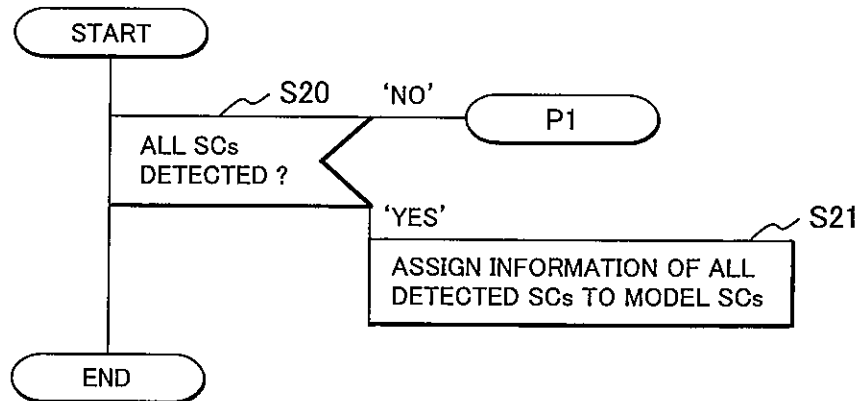


FIG. 22

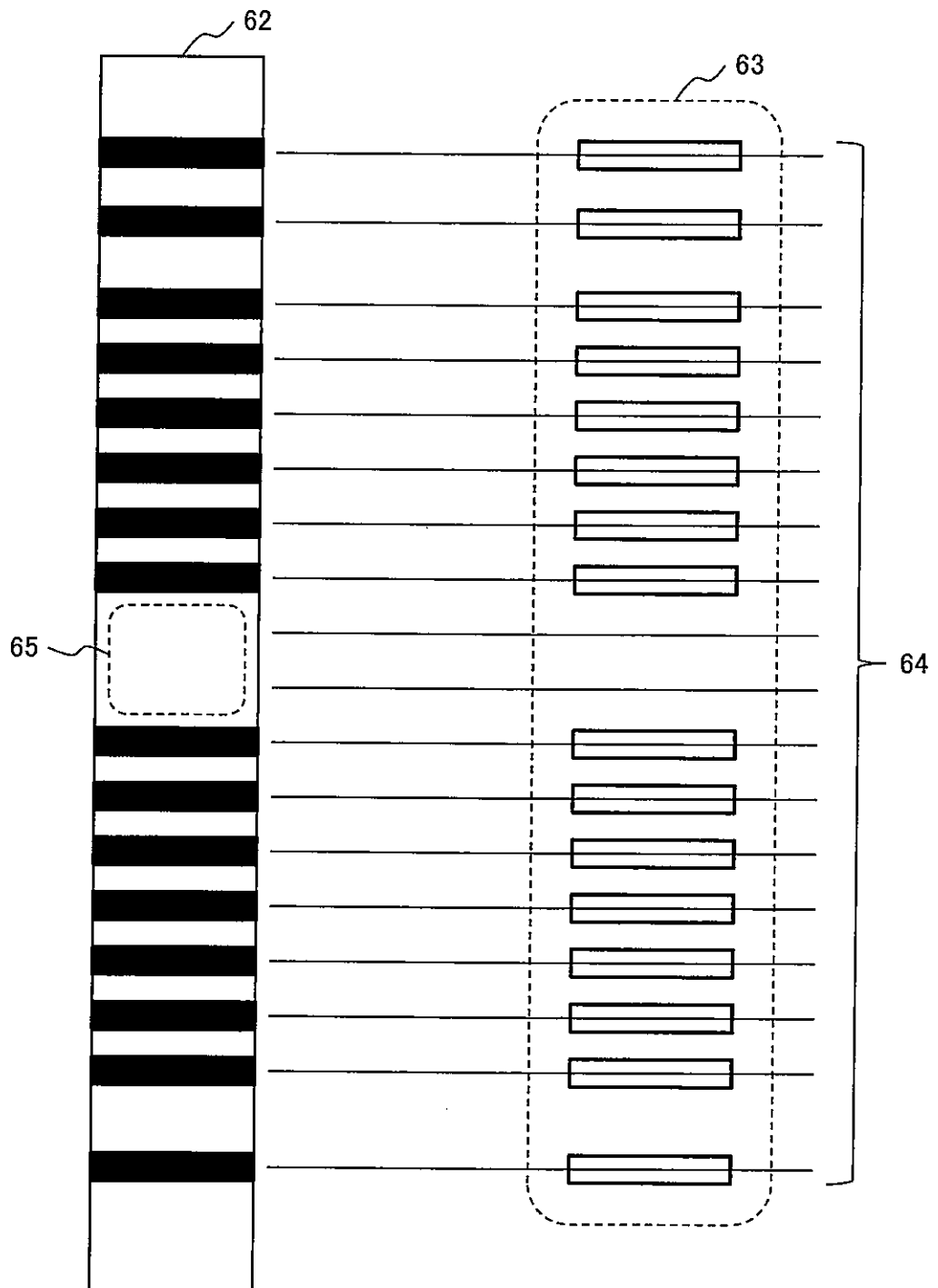


FIG. 23

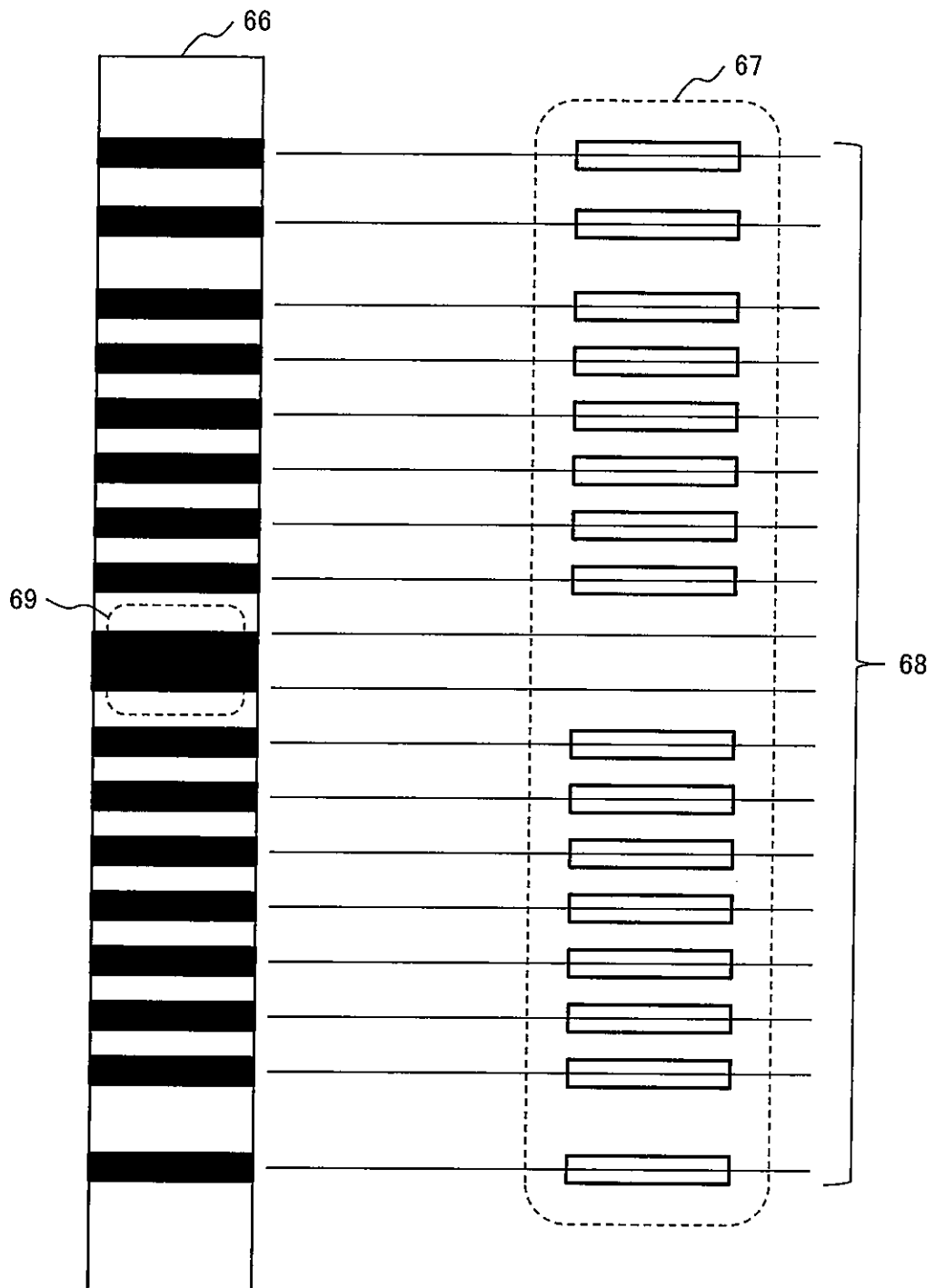


FIG. 24

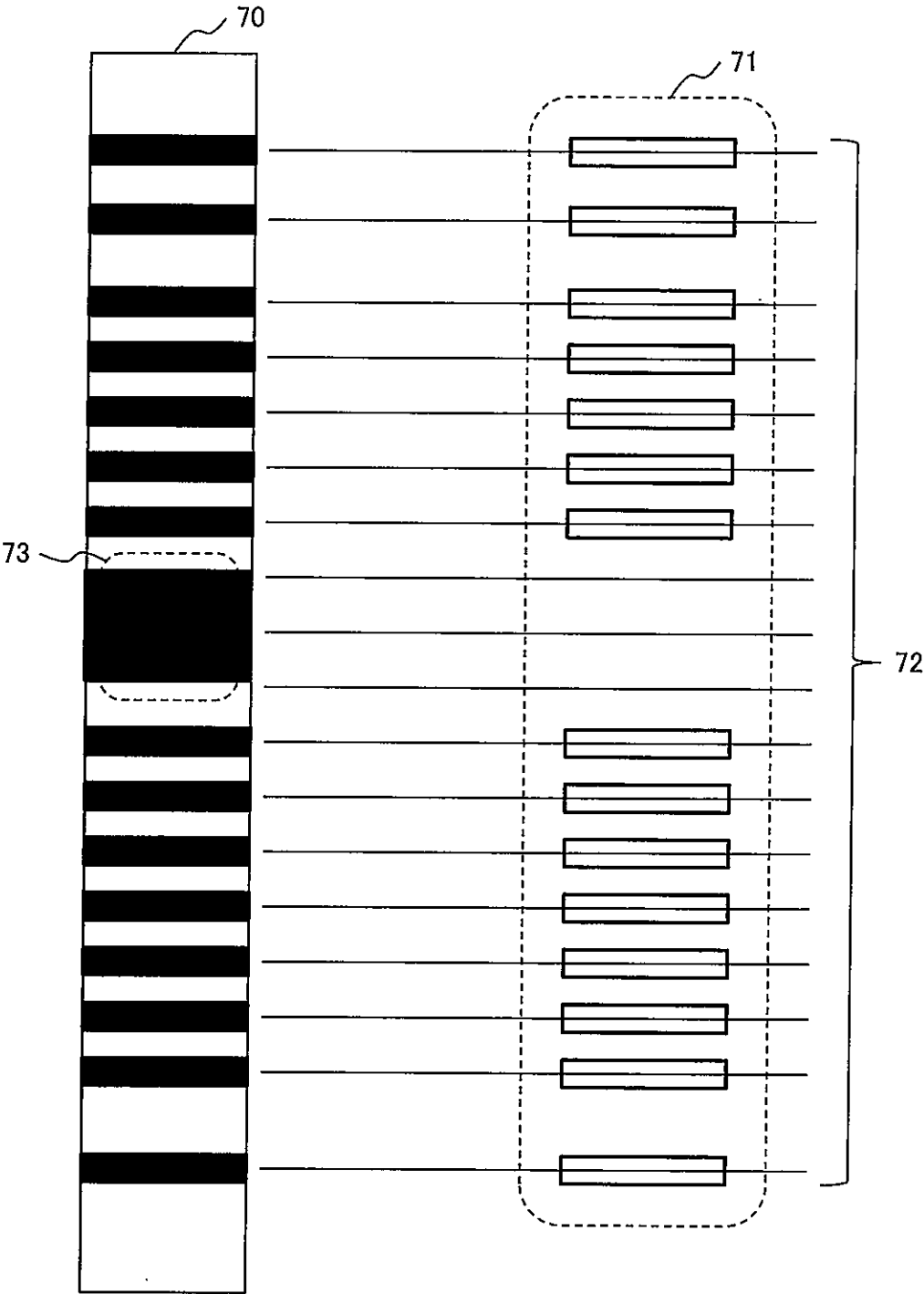
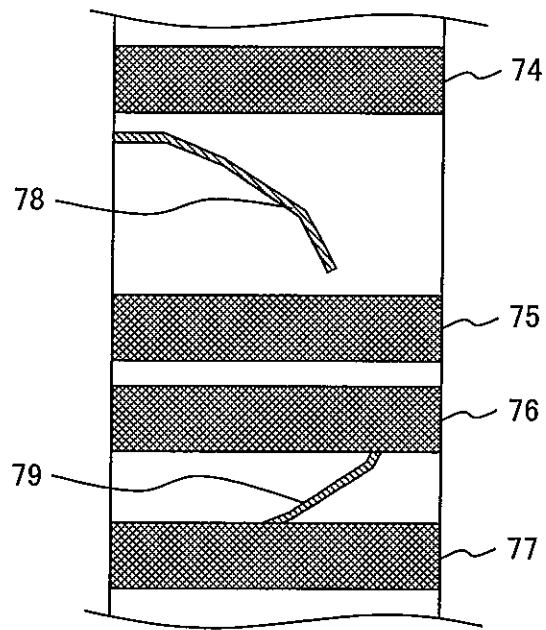


FIG. 25*FIG. 26*

RANK OF QUALITY	JUDGMENT CRITERIA
NORMAL	NOT DETERIORATED
DETERIORATED	"INDIVIDUARIZED WIRE" LASTS FOR 5th FRAMES OR LONGER

FIG. 27

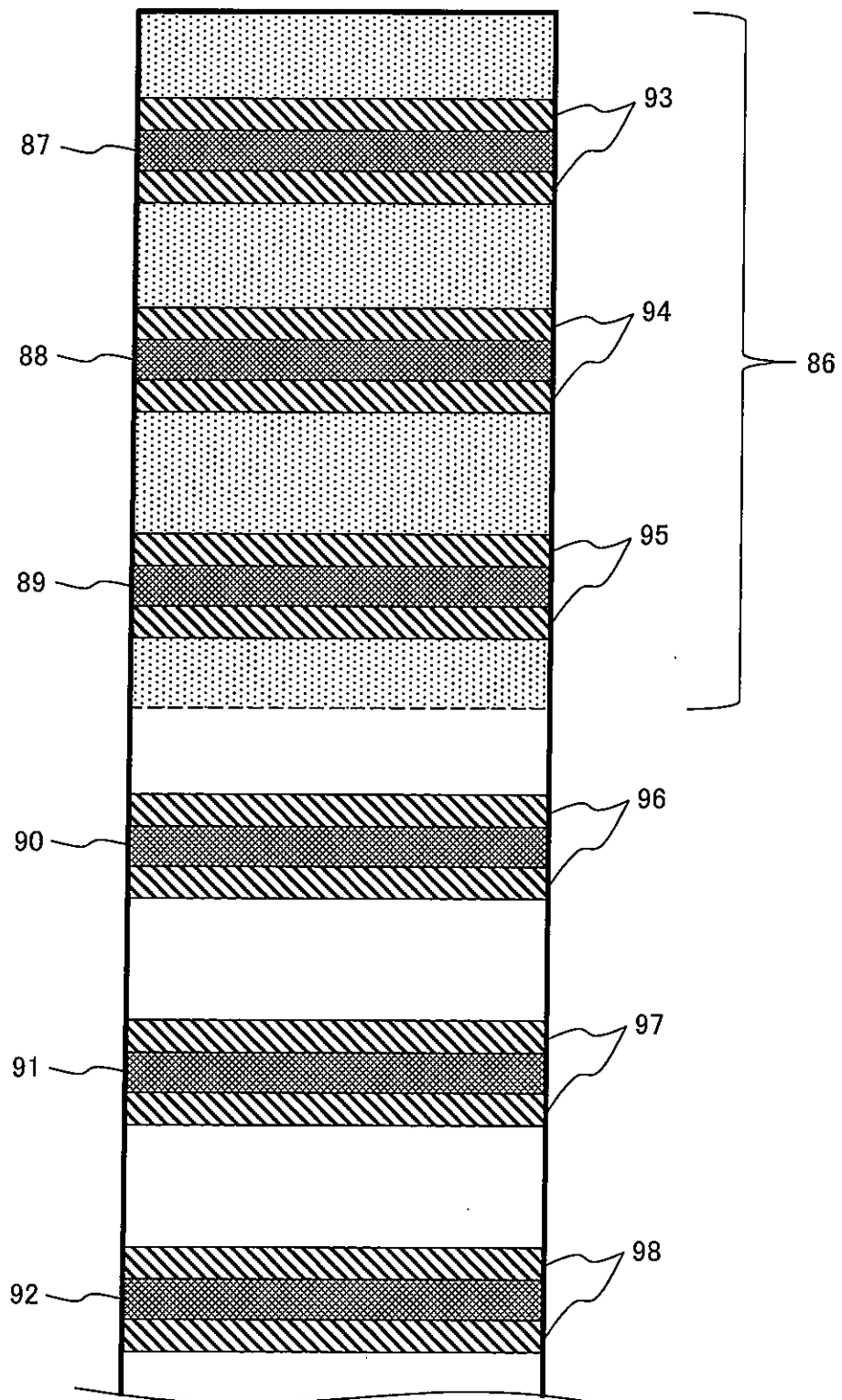


FIG. 28

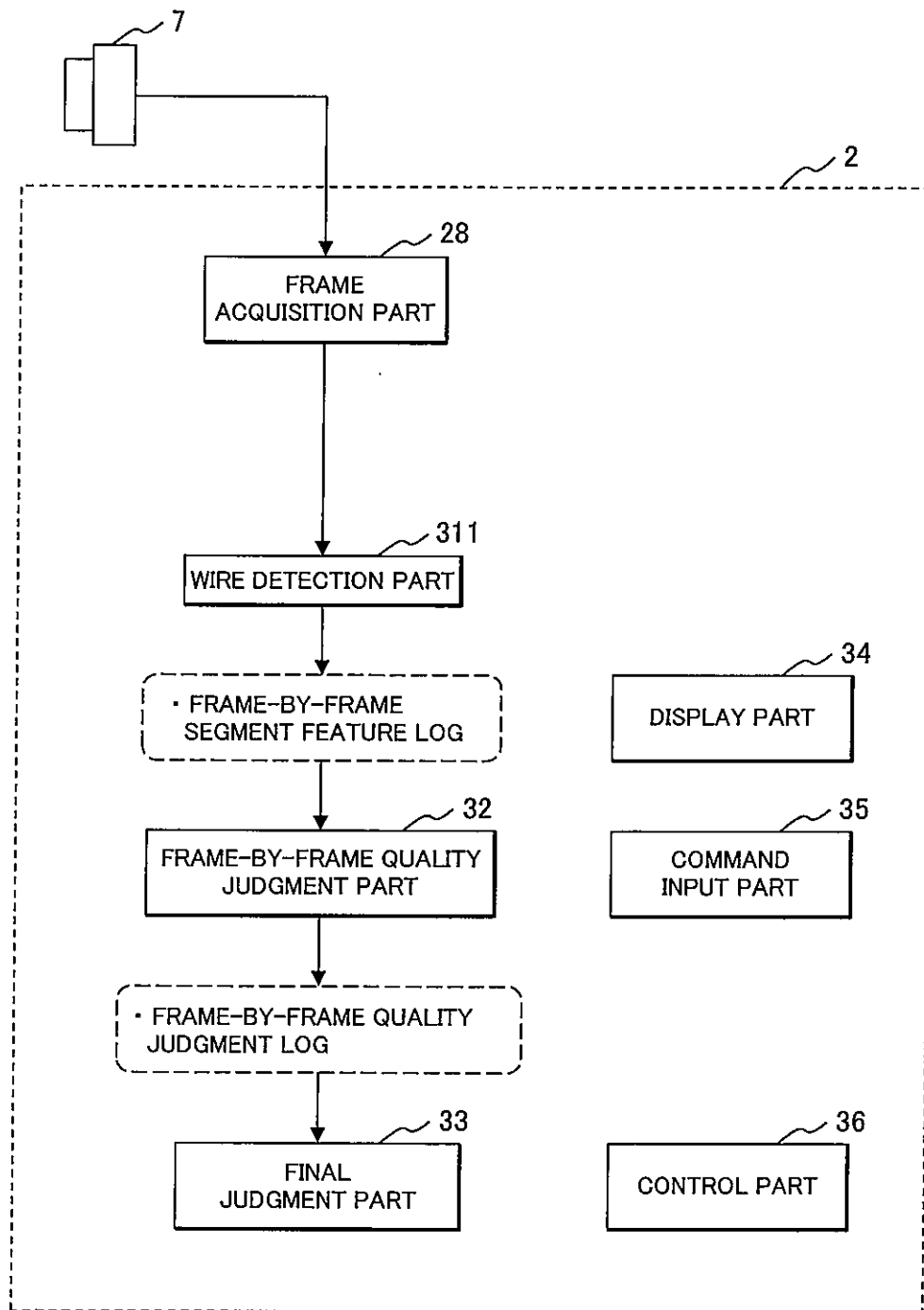


FIG. 29A

FRAME NUMBER	MODEL CORD	COORDINATE
120	01	154
	02	179
	03	201
	04	220
	05	240
	06	259
	07	277
	08	295
	09	313

FIG. 29B

FRAME NUMBER	DETECTED CORD		COORDINATE
121	1	D	151
	2	D	176
	3	D	198
	4	D	217
	5	D	237
	6	D	256
	7	D	274
	8	D	292
	9	D	310

FIG. 29C

FRAME NUMBER	MODEL CORD	COORDINATE
121	01	151
	02	176
	03	198
	04	217
	05	237
	06	256
	07	274
	08	292
	09	310

FIG. 30A

FRAME NUMBER	MODEL CORD	COORDINATE
120	01	154
	02	179
	03	201
	04	220
	05	240
	06	259
	07	277
	08	295
	09	313

FIG. 30B

FRAME NUMBER	DETECTED CORD		COORDINATE
121	1	D	151
	2	D	176
	3	D	198
	4	D	217
	5	D	237
	6	D	292
	7	D	310
	8	—	
	9	—	

FIG. 30C

FRAME NUMBER	MODEL CORD	COORDINATE
121	01	151
	02	176
	03	198
	04	217
	05	237
	06	255
	07	274
	08	292
	09	310

FIG. 31

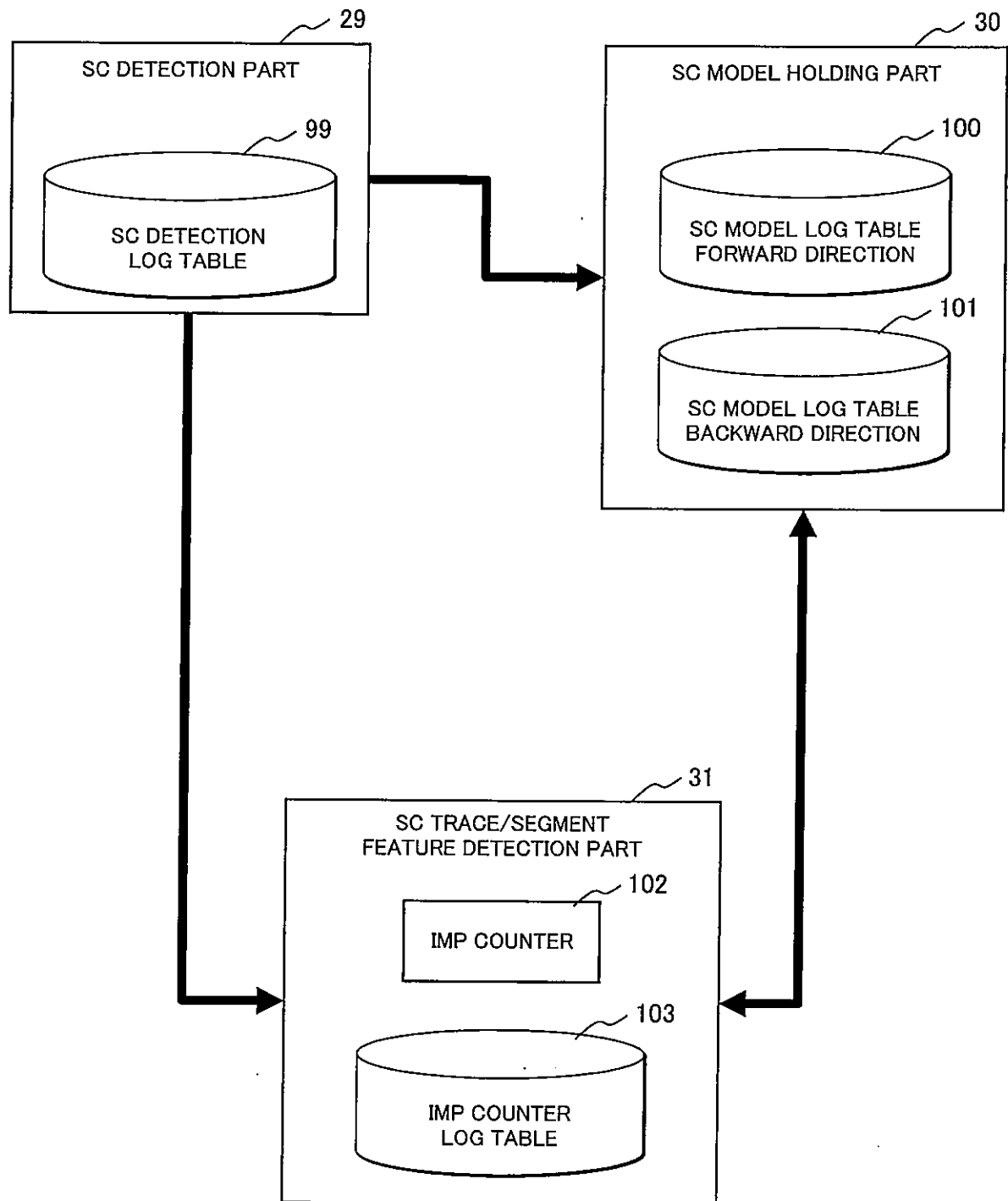


FIG. 32

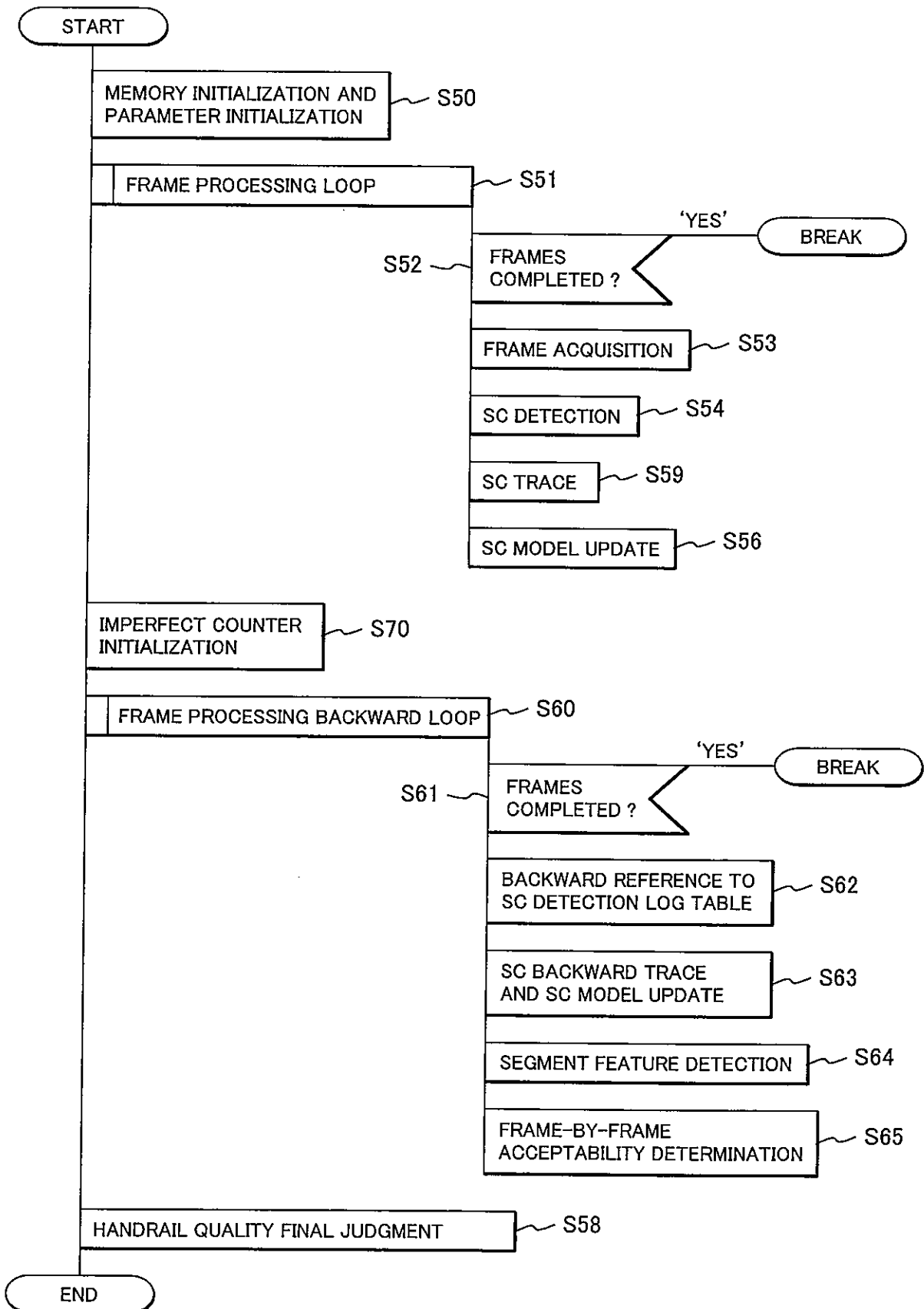


FIG. 33

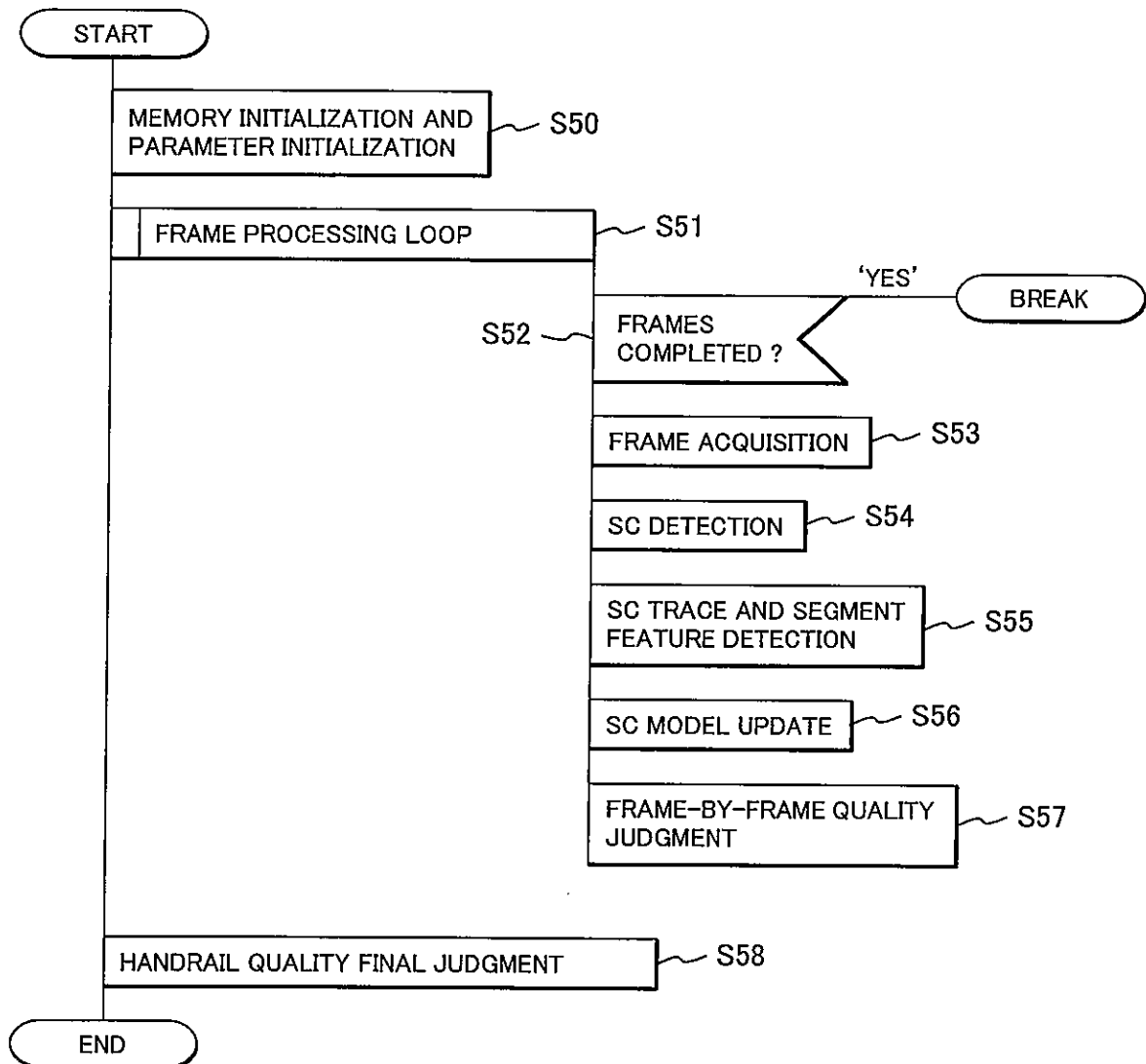


FIG. 34

