

1 / 246

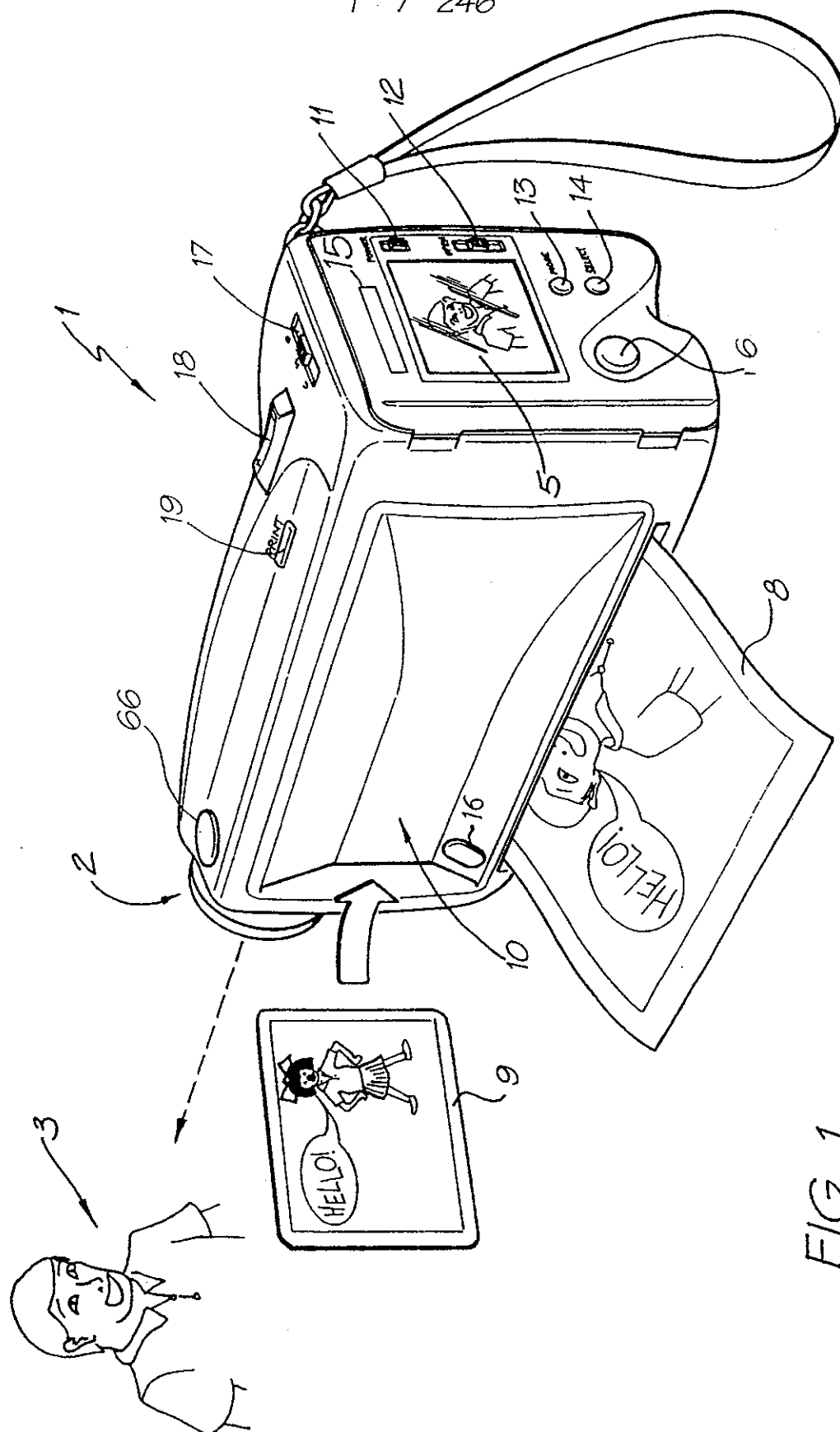


FIG. 1

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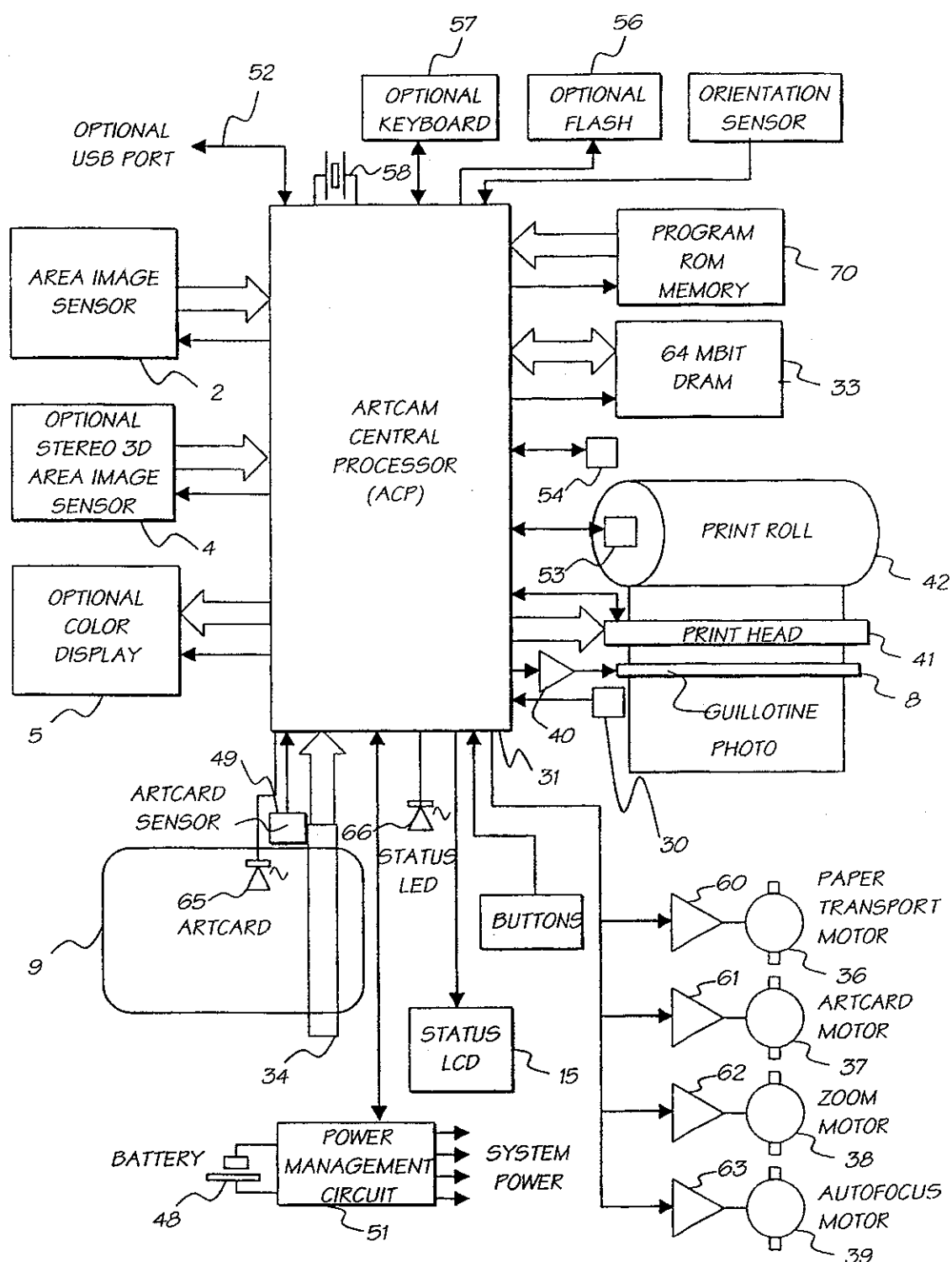


FIG. 2

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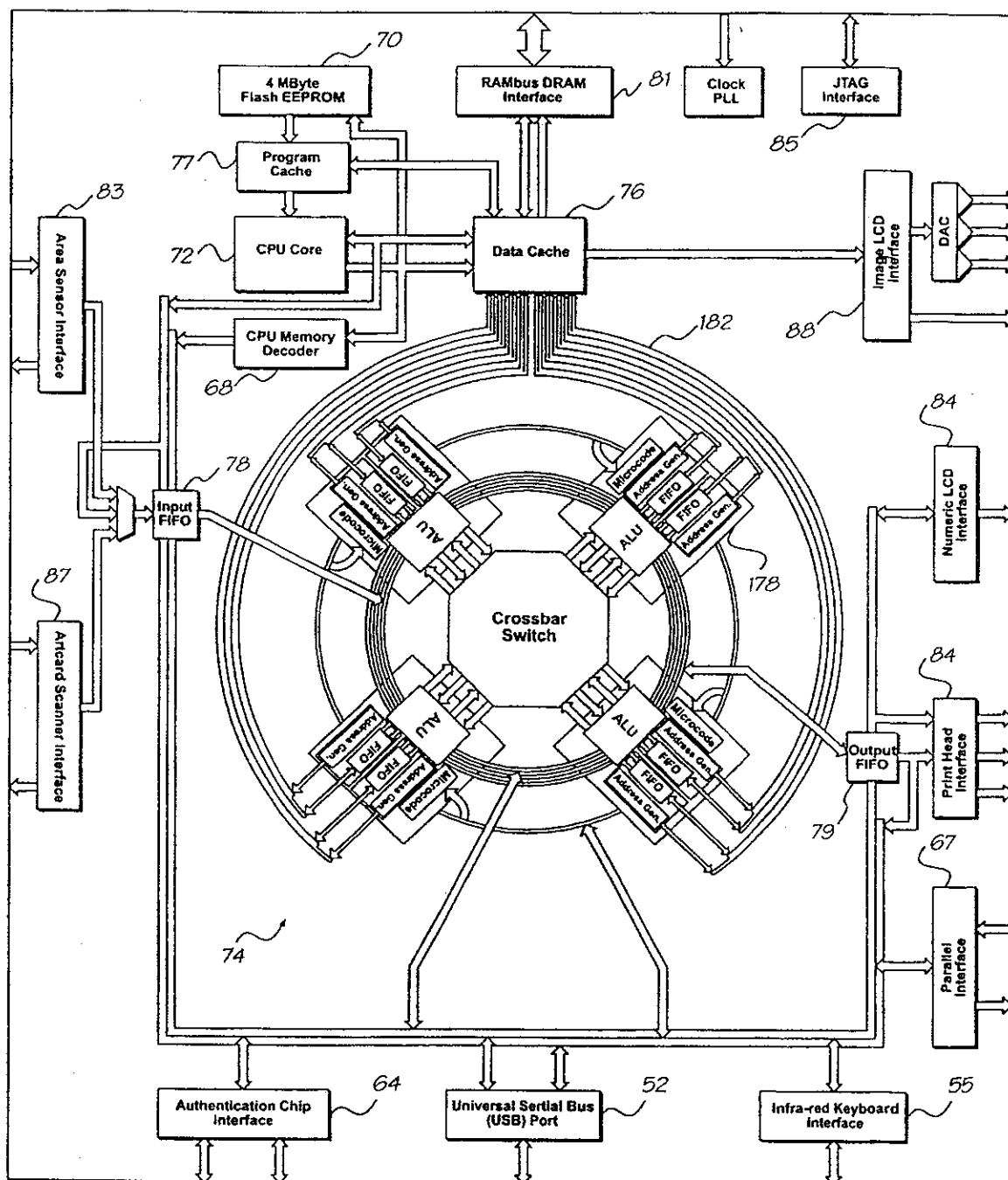


FIG. 3

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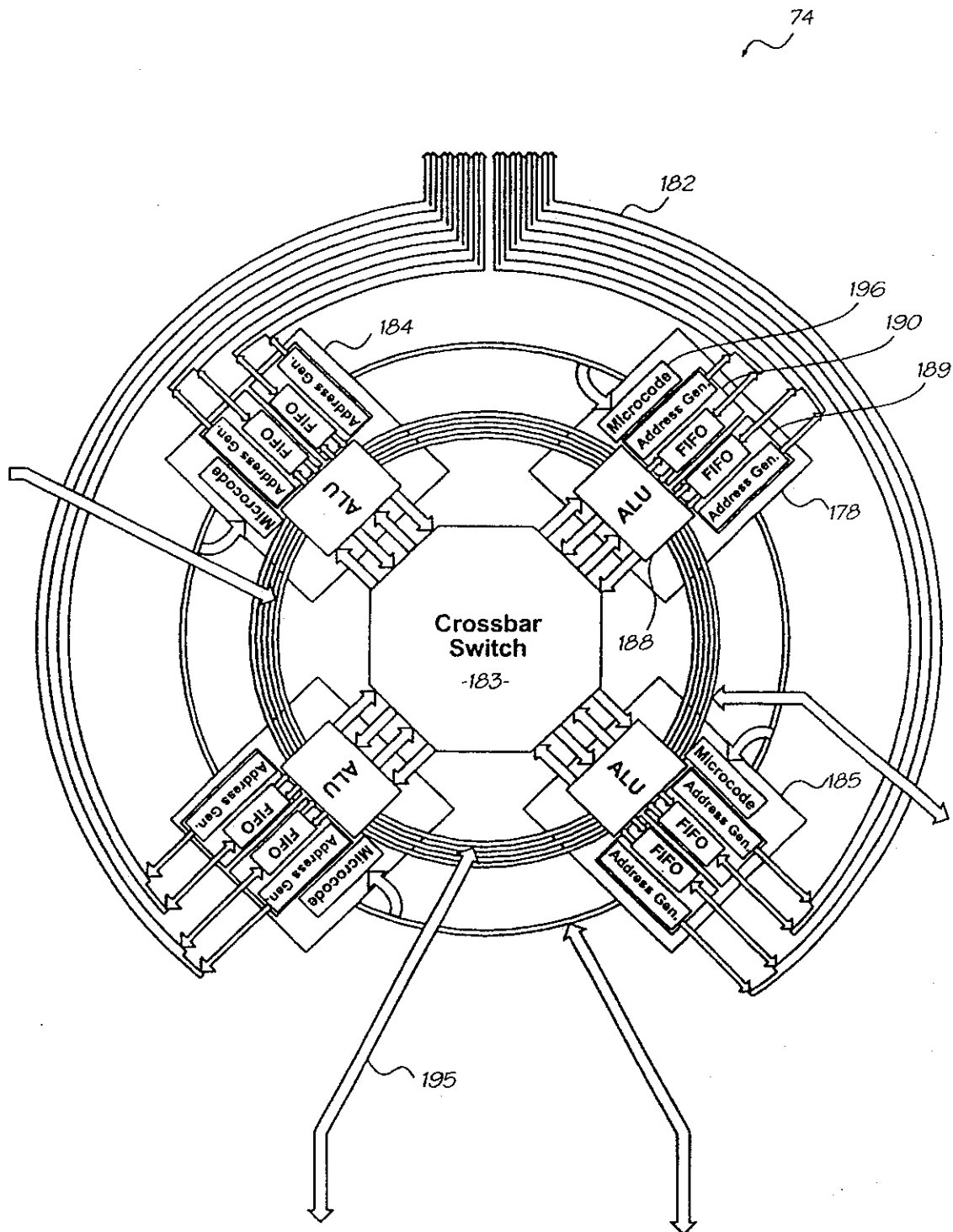


FIG. 3(a)

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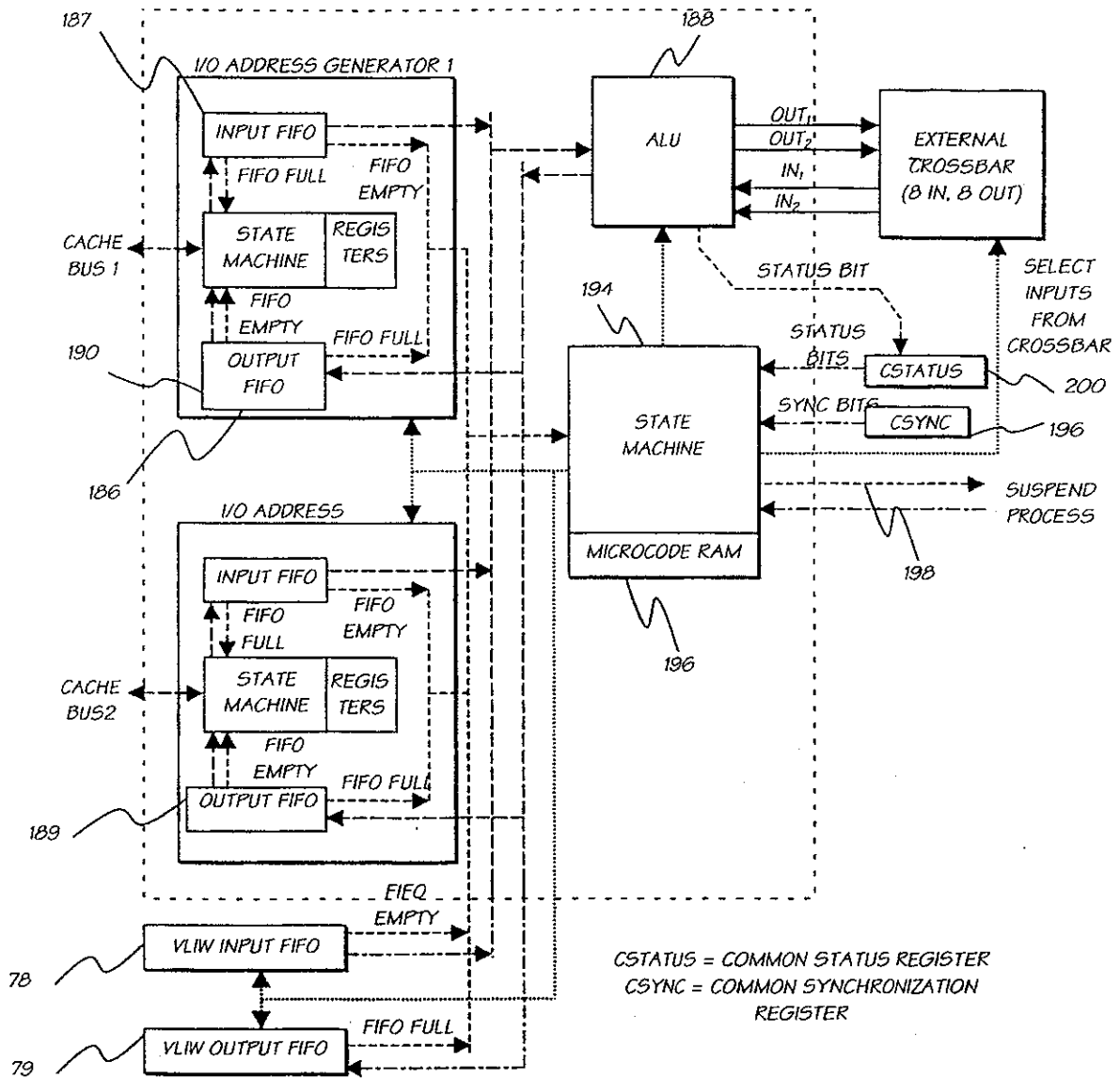


FIG. 4

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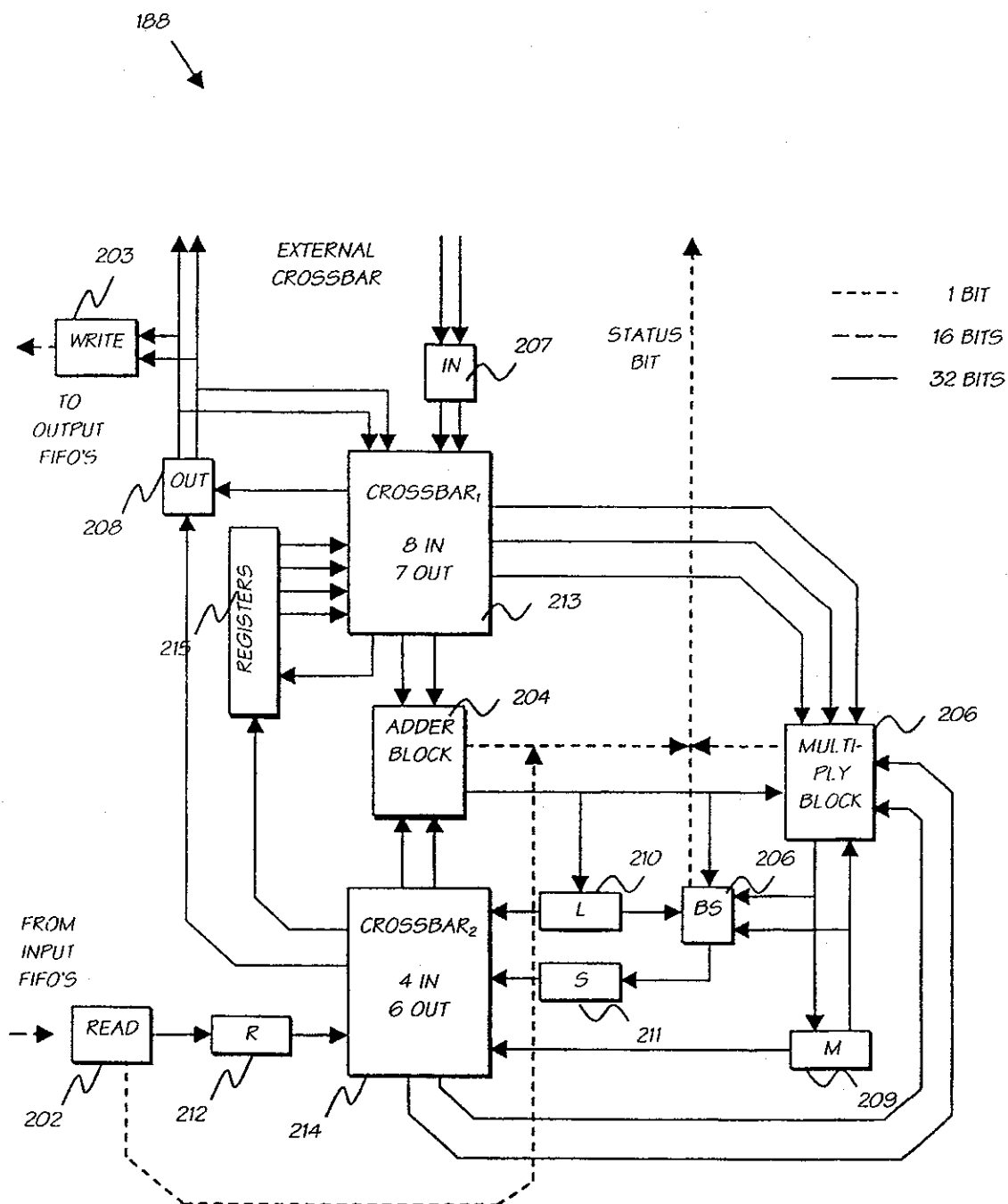


FIG. 5

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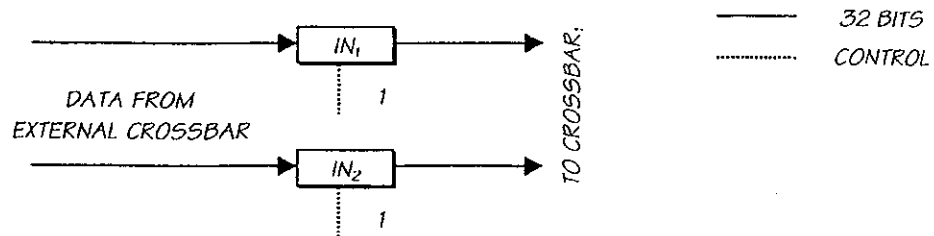


FIG. 6

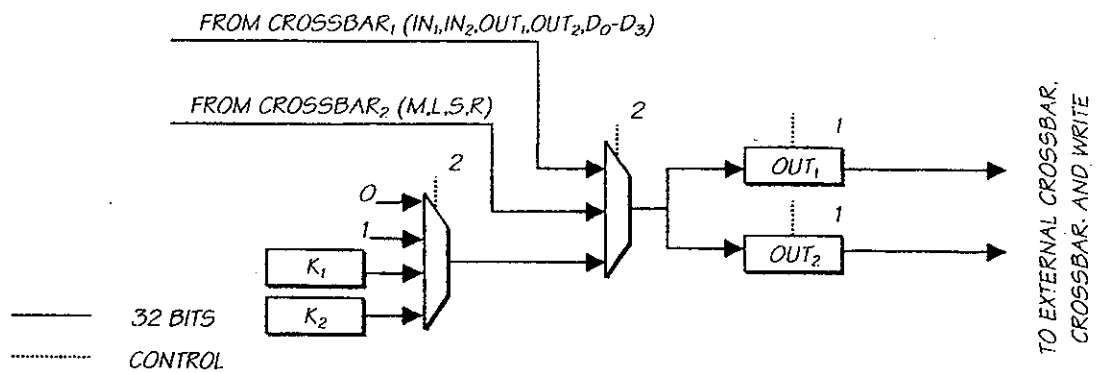


FIG. 7

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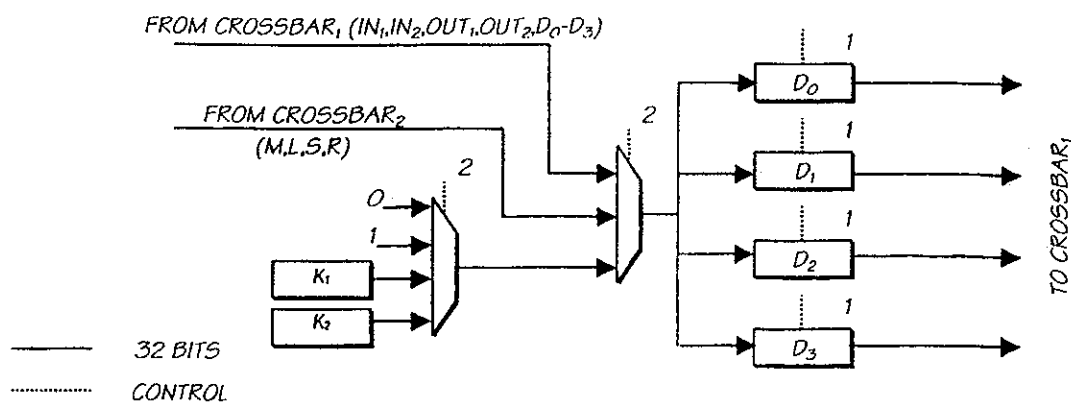


FIG. 8

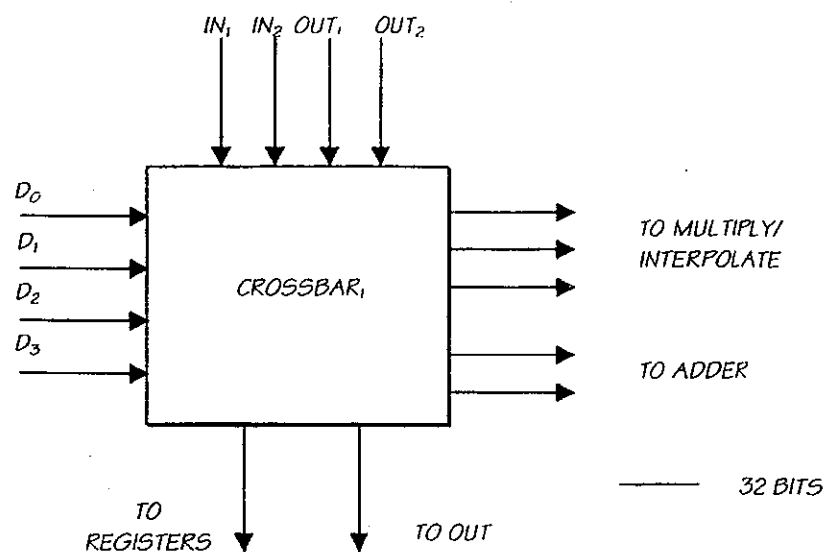


FIG. 9

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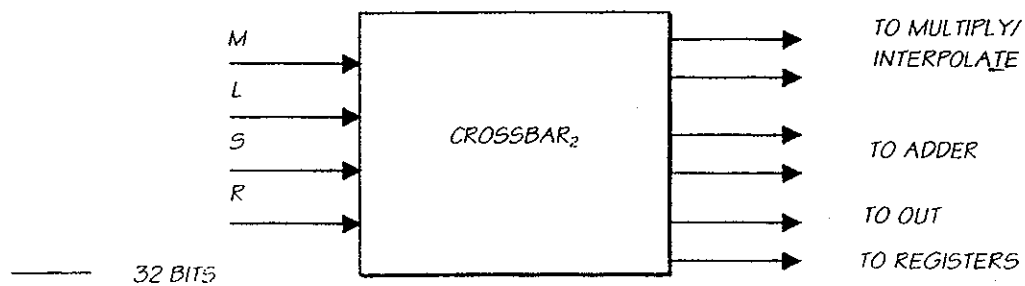


FIG. 10

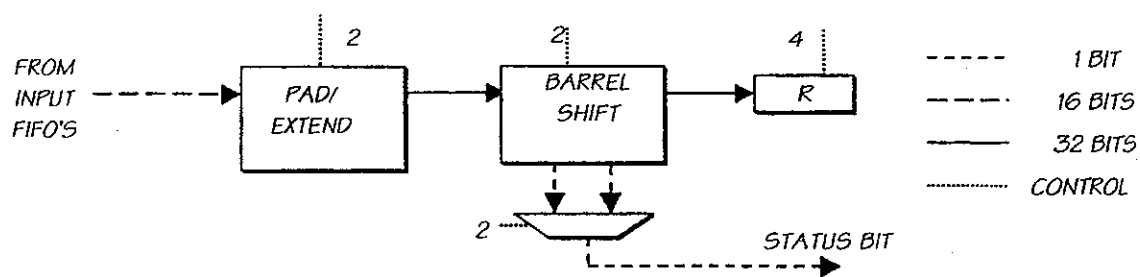


FIG. 11

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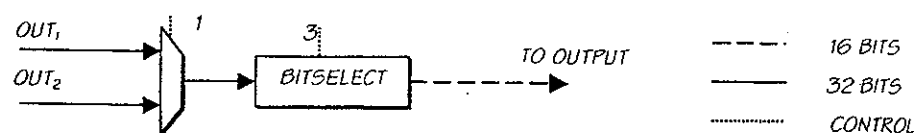


FIG. 12

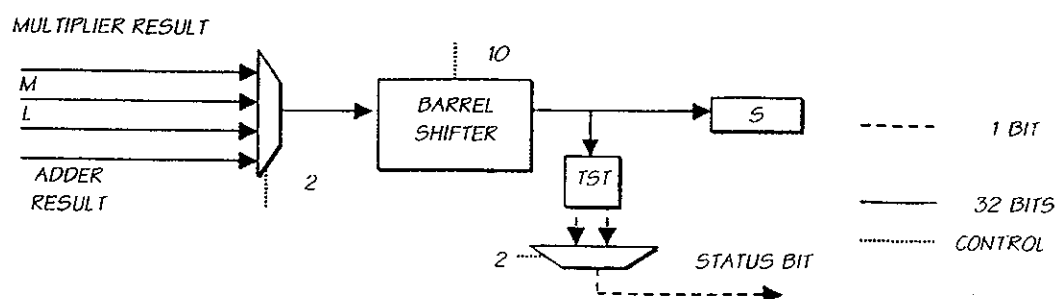


FIG. 13

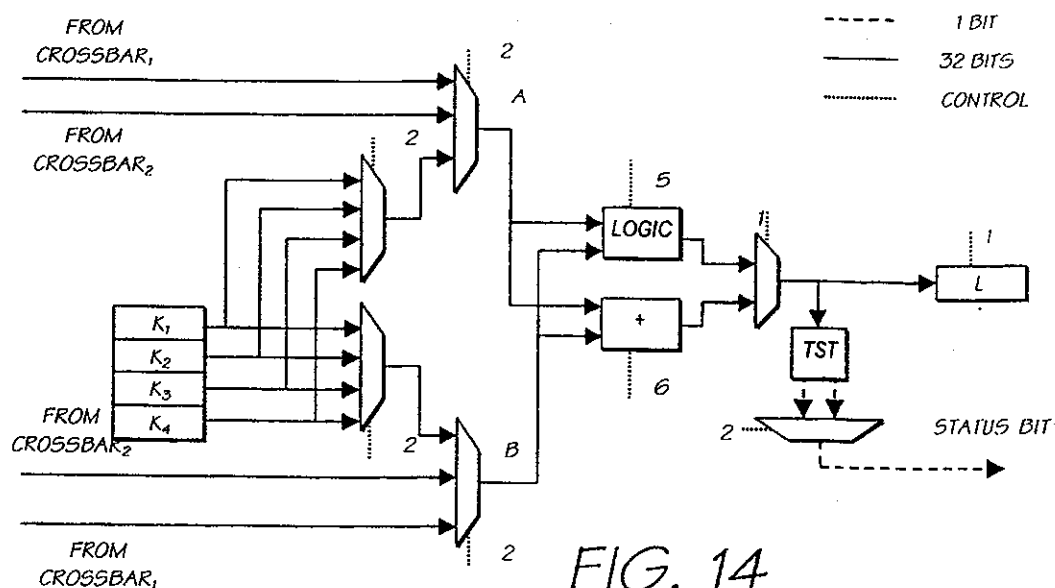
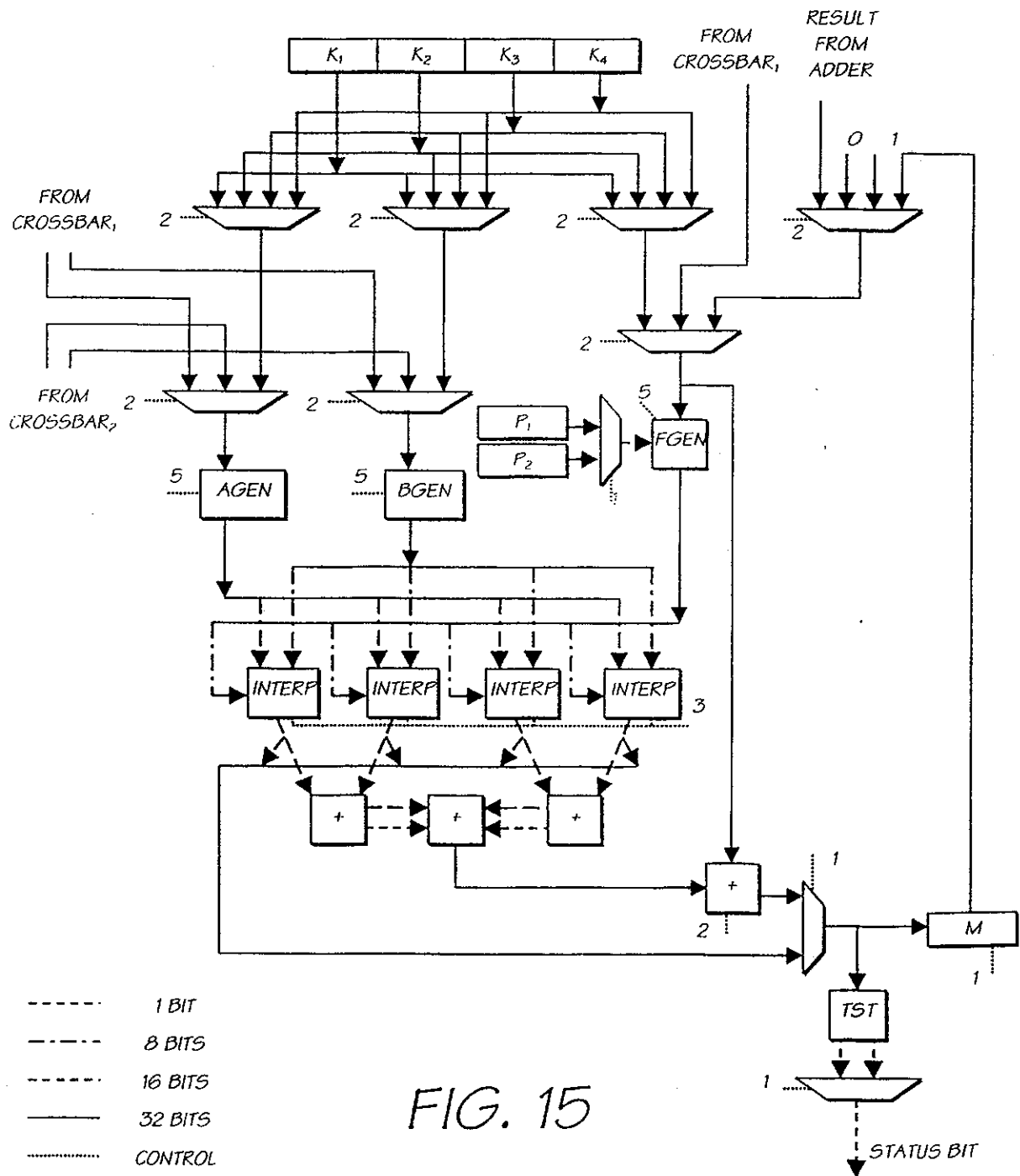


FIG. 14

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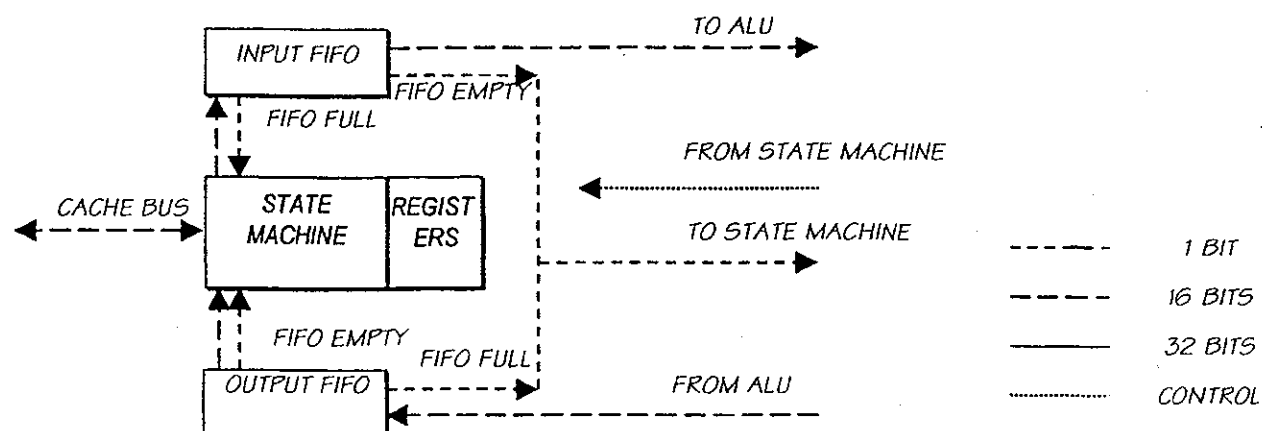


FIG. 16

ORDER OF PIXELS PRESENTED BY A SEQUENTIAL READ ITERATOR
ON A 4 X 2 IMAGE WITH PADDING.

0	1	2	3	
4	5	6	7	

FIG. 17

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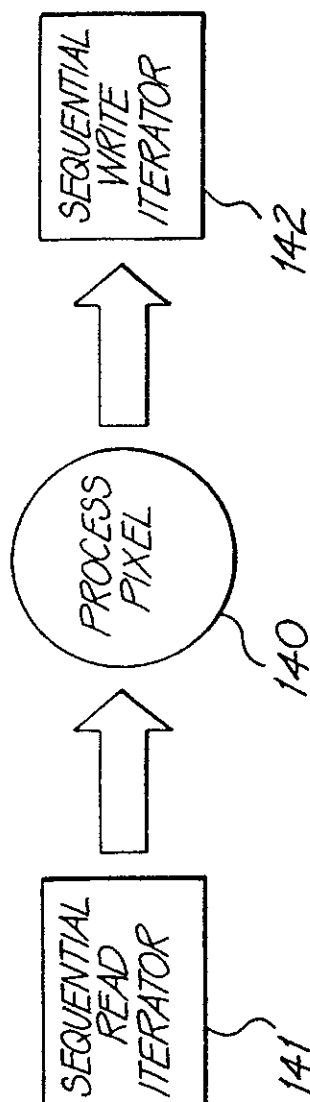
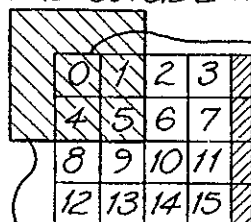


FIG. 18

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A 3×3 BOX VIEW TRAVERSES THE PIXELS IN ORDER: 0,1,2,3,4,5,6,7,8 ETC,
PLACING A 3×3 BOX CENTERED OVER EACH PIXEL...

3×3 BOX VIEW OF FIRST PIXEL IN
IMAGE = 9 PIXELS, 5 OF WHICH
ARE OUTSIDE THE IMAGE



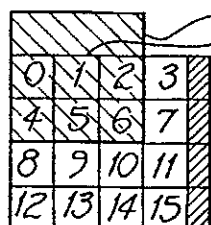
150

FIRST 9 PIXELS FROM THE
BOX READ ITERATOR:

IF DUPLICATION OF EDGE PIXELS IS ON:
0,0,0,0,0,1,4,4,5

IF DUPLICATION OF EDGE PIXELS IS OFF:
V,V,V,V,0,1,V,4,5
WHERE V IS CONSTANT
"OUTSIDE IMAGE" PIXEL VALUE

3×3 BOX VIEW OF SECOND PIXEL IN
IMAGE = 9 PIXELS, 3 OF WHICH
ARE OUTSIDE THE IMAGE



156

SECOND 9 PIXELS FROM THE
BOX READ ITERATOR:

IF DUPLICATION OF EDGE PIXELS IS ON:
0,1,2,0,1,2,4,5,6

IF DUPLICATION OF EDGE PIXELS IS OFF:
V,V,V,0,1,2,4,5,6
WHERE V IS CONSTANT
"OUTSIDE IMAGE" PIXEL VALUE

FIG. 19

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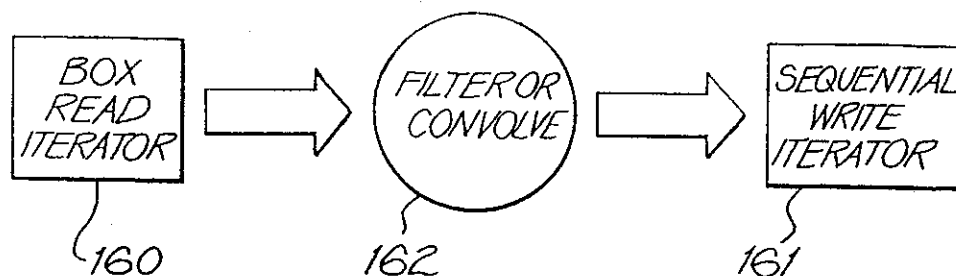
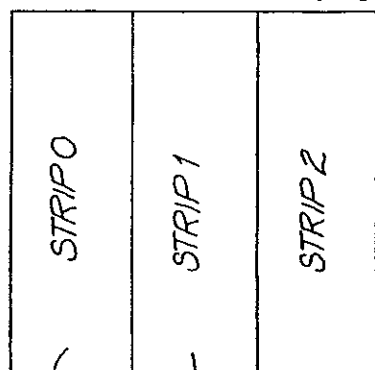


FIG. 20

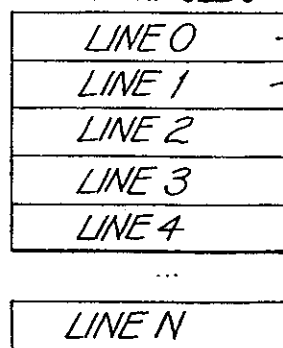
IMAGE BROKEN INTO
VERTICAL STRIPS, EACH STRIP
IS 32 PIXELS ACROSS.



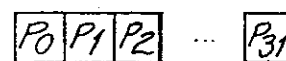
169

170

LINES ARE ACCESSED
LINE 0 TO LINE N
WITHIN A SINGLE STRIP.



PIXELS ARE ACCESSED
PIXEL 0-PIXEL 31 WITHIN
A SINGLE LINE.



167

165

FIG. 21

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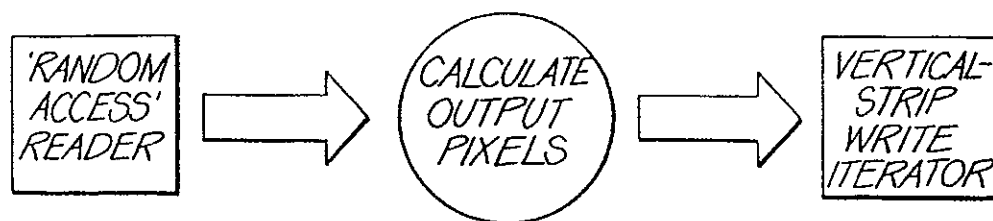


FIG. 22

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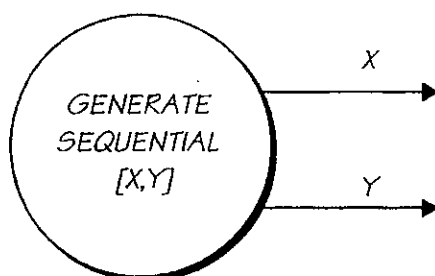


FIG. 23

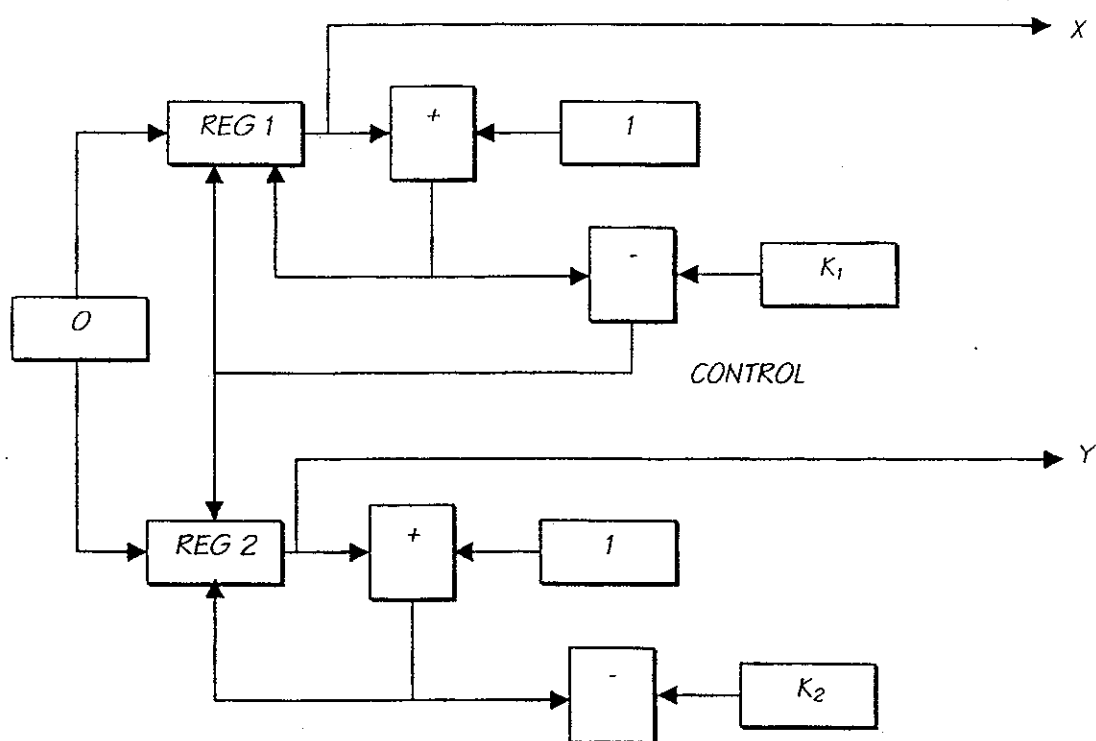


FIG. 24

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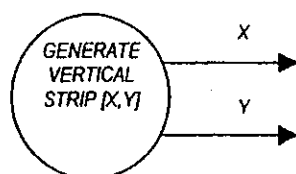


FIG. 25

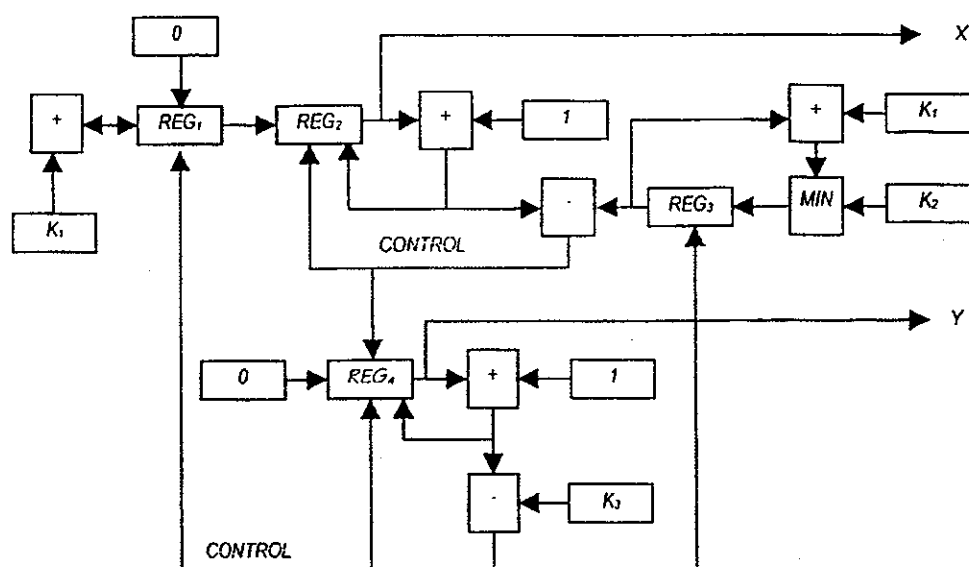


FIG. 26

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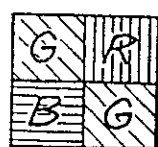
*2x2 PIXEL BLOCK FROM CCD*

FIG. 27

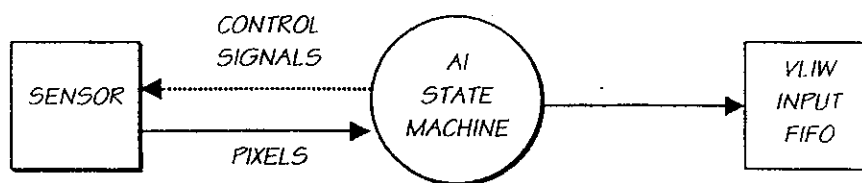


FIG. 28

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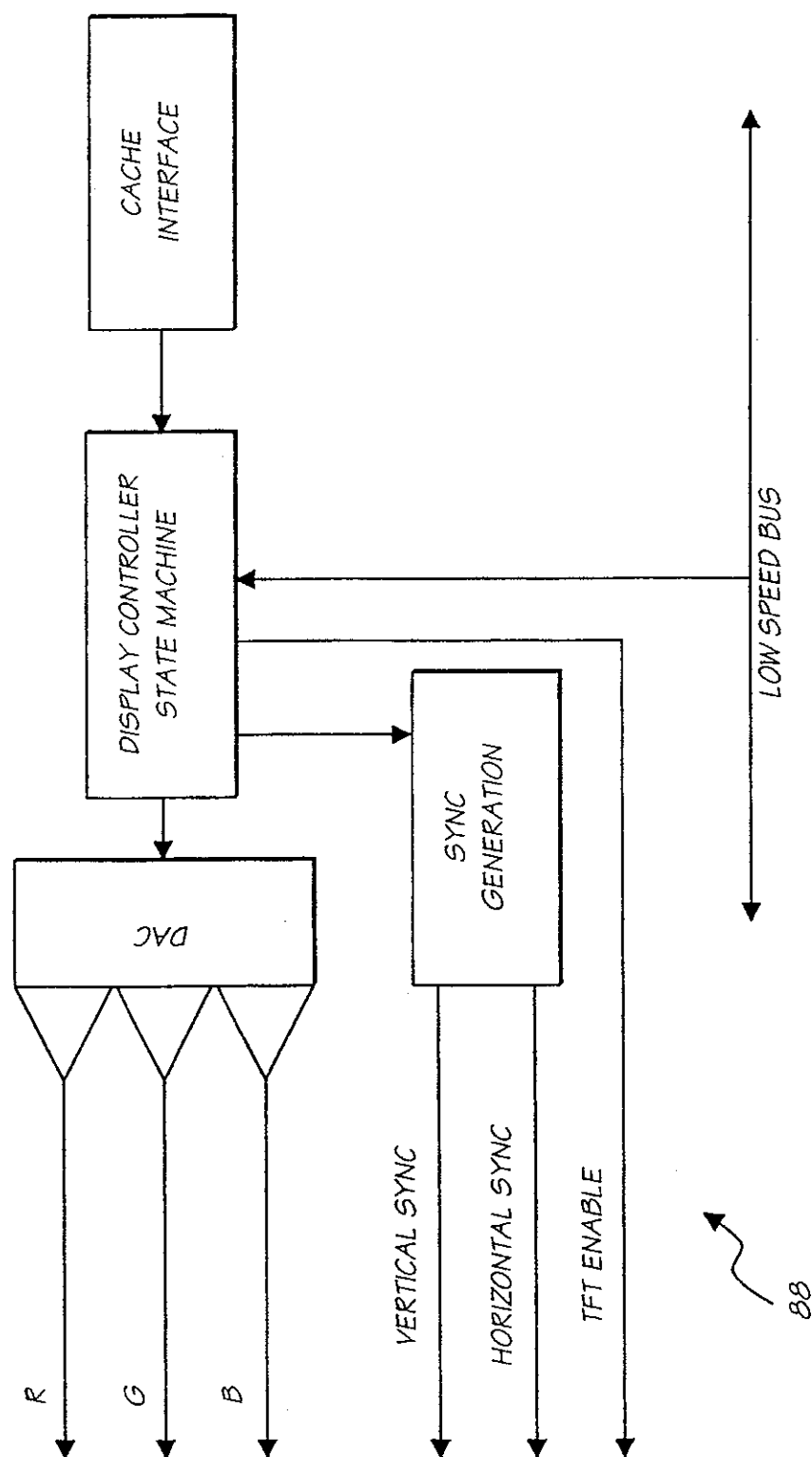


FIG. 29

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2x2 PIXEL BLOCK FROM CCD

FIG. 30

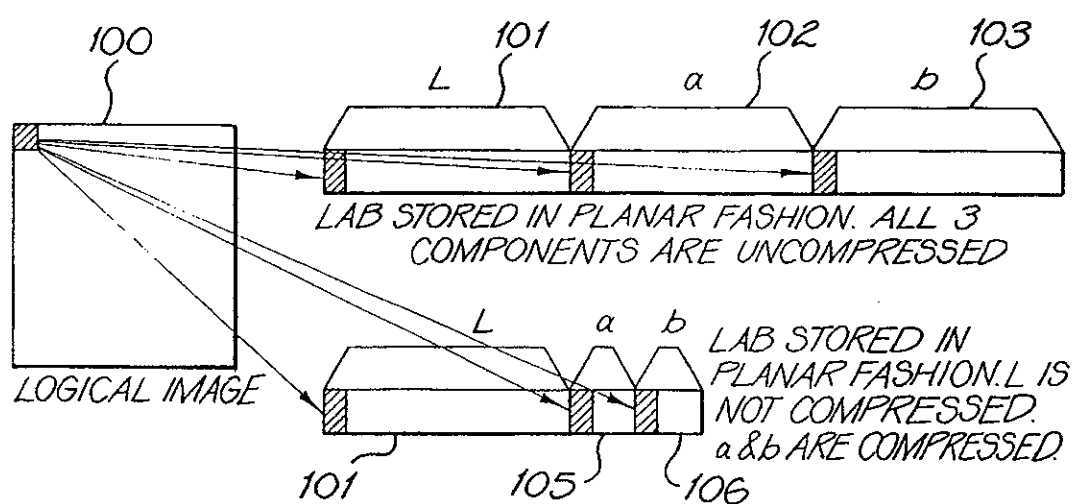


FIG. 31

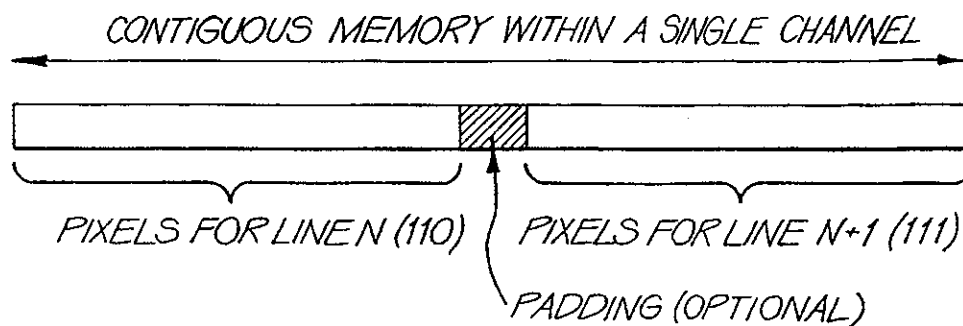


FIG. 32

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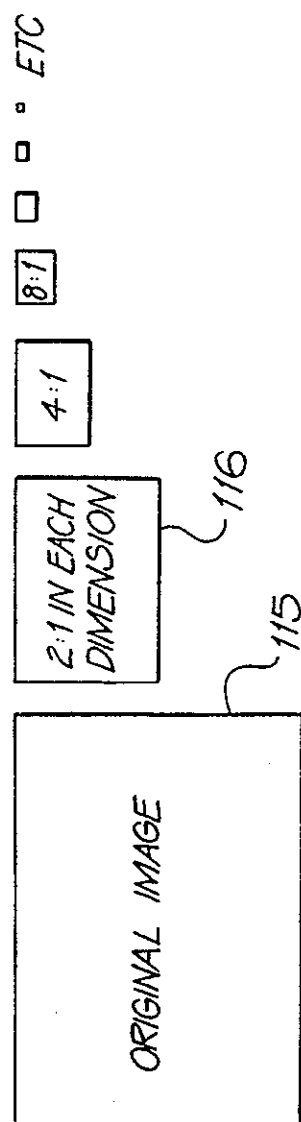


FIG. 33

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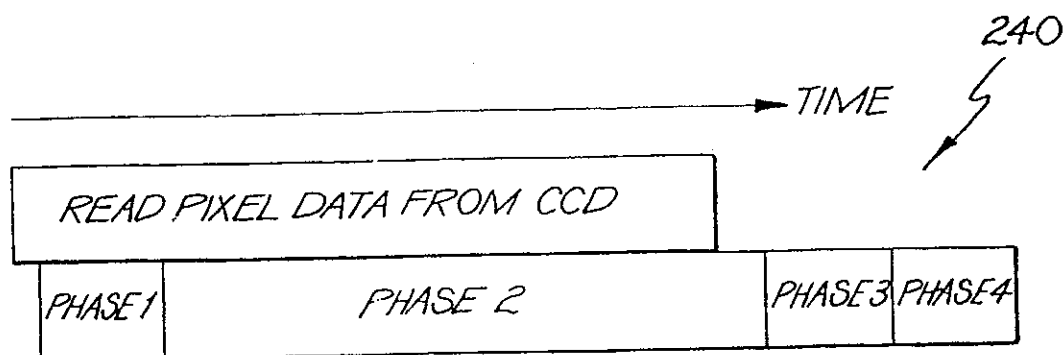


FIG. 34

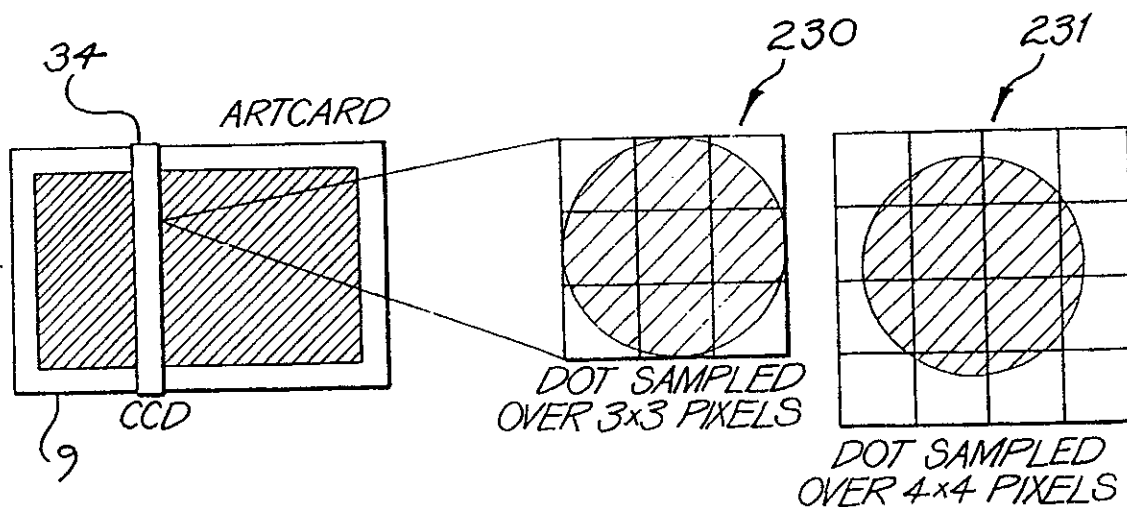
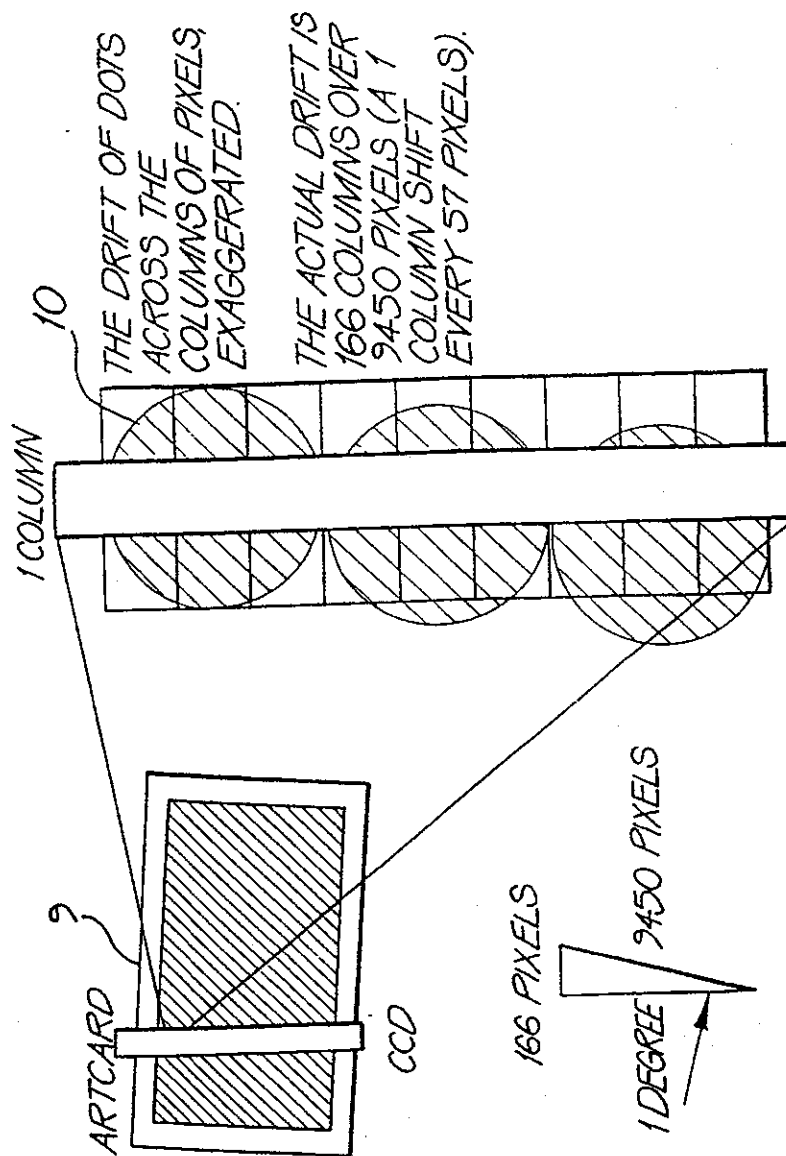


FIG. 35

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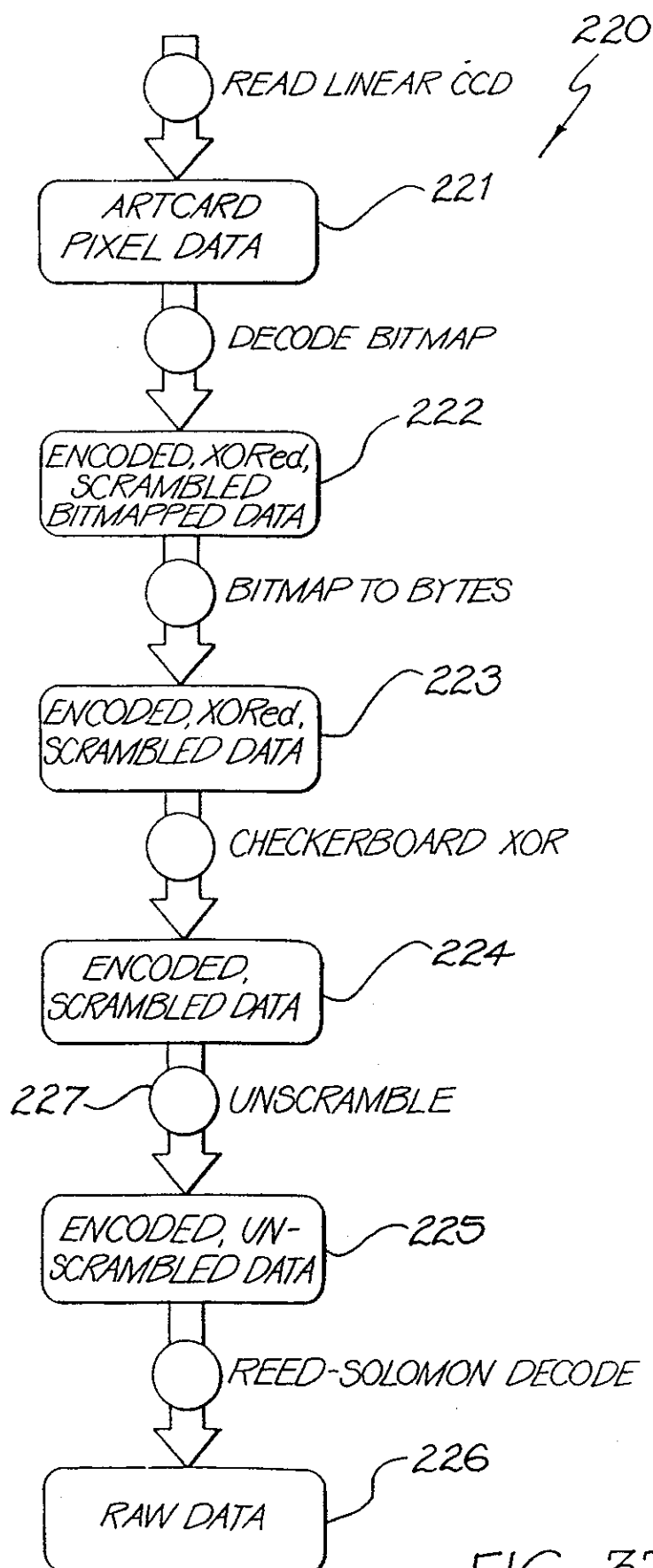


FIG. 37

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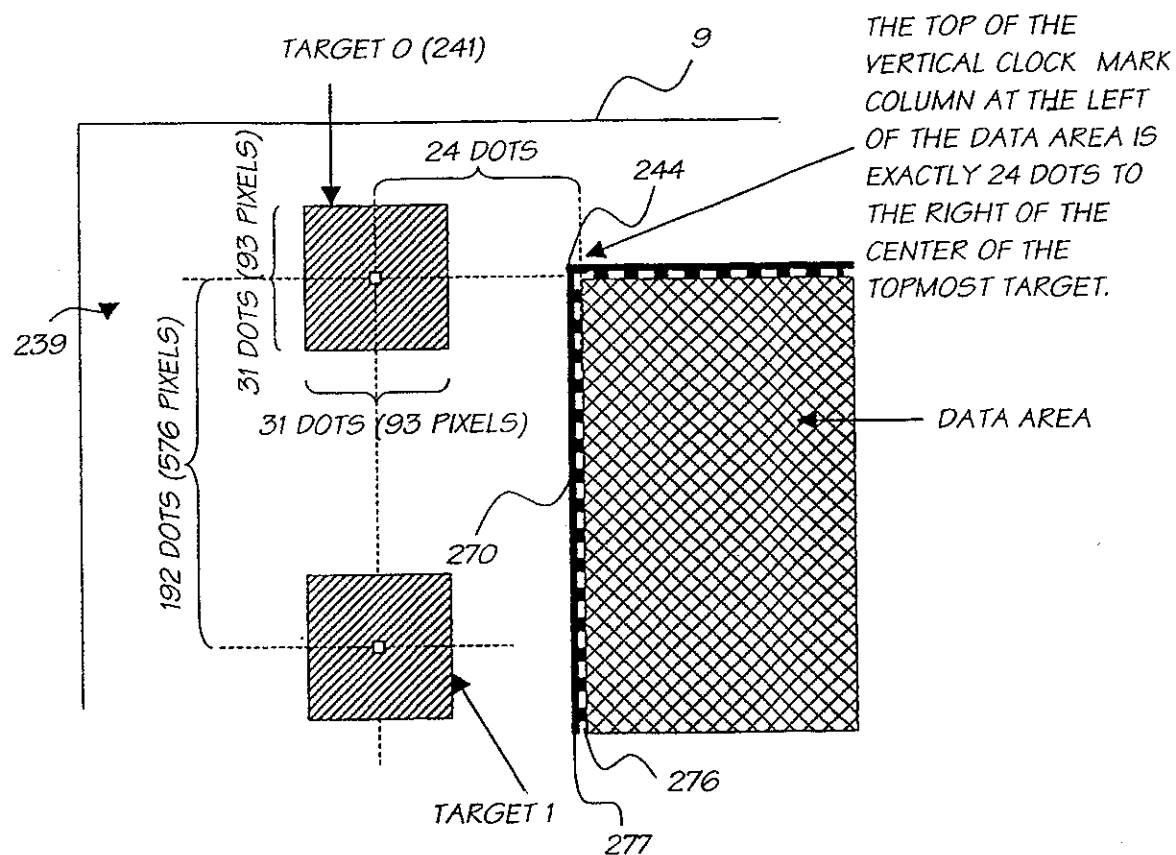


FIG. 38

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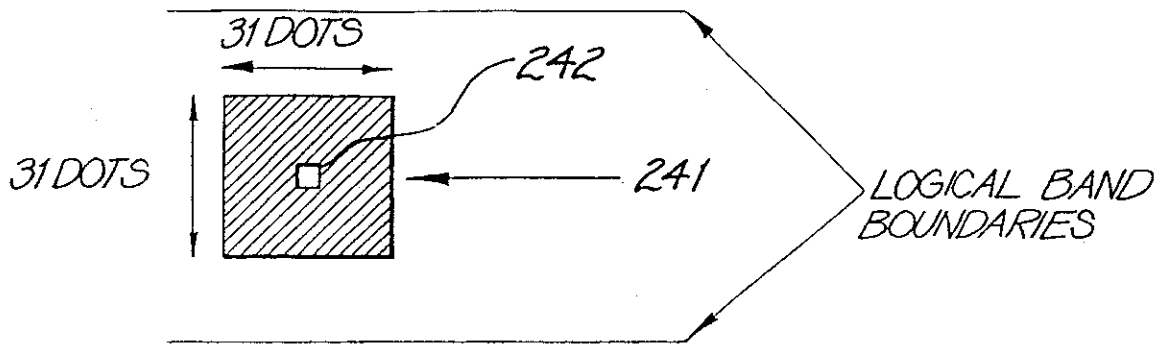


FIG. 39

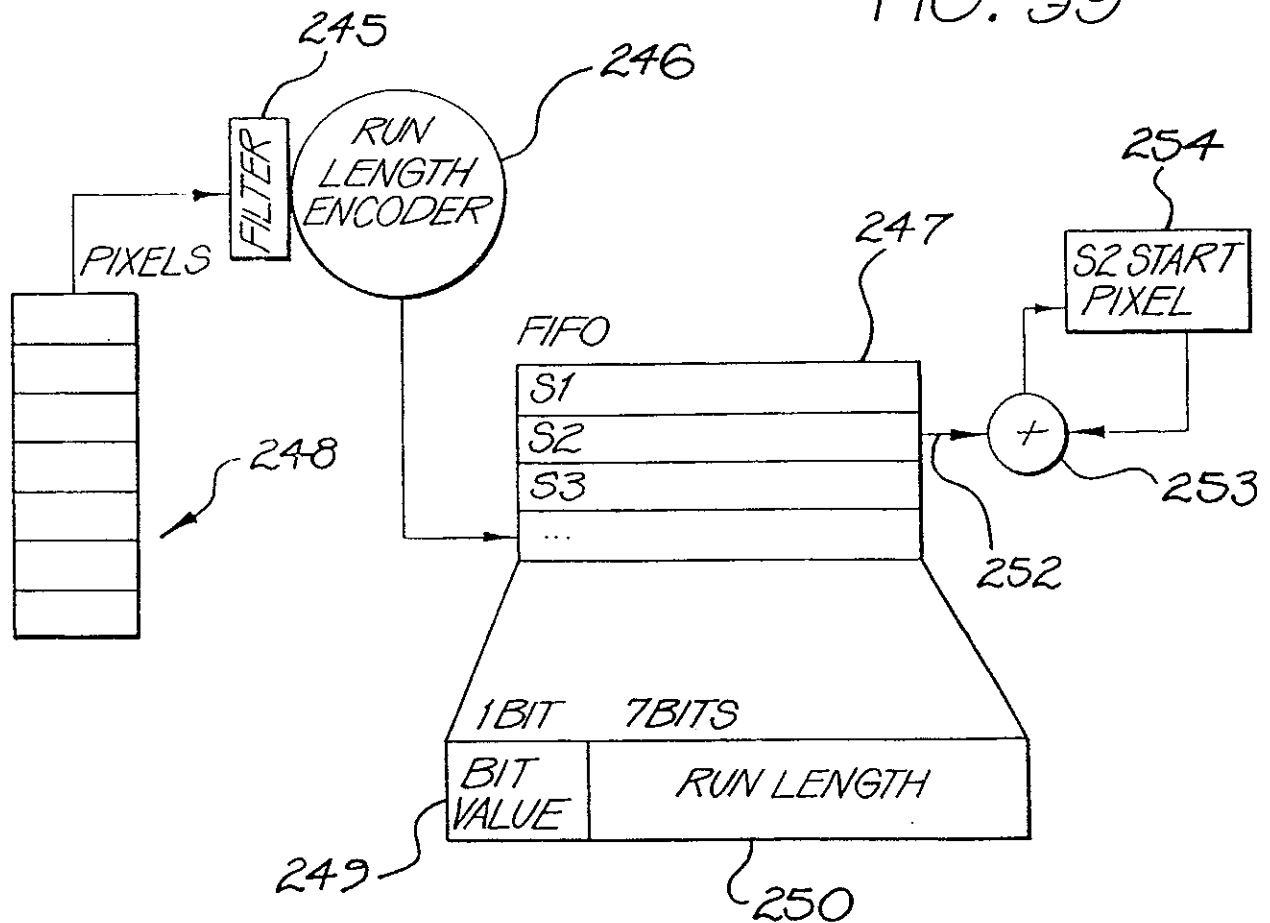


FIG. 40

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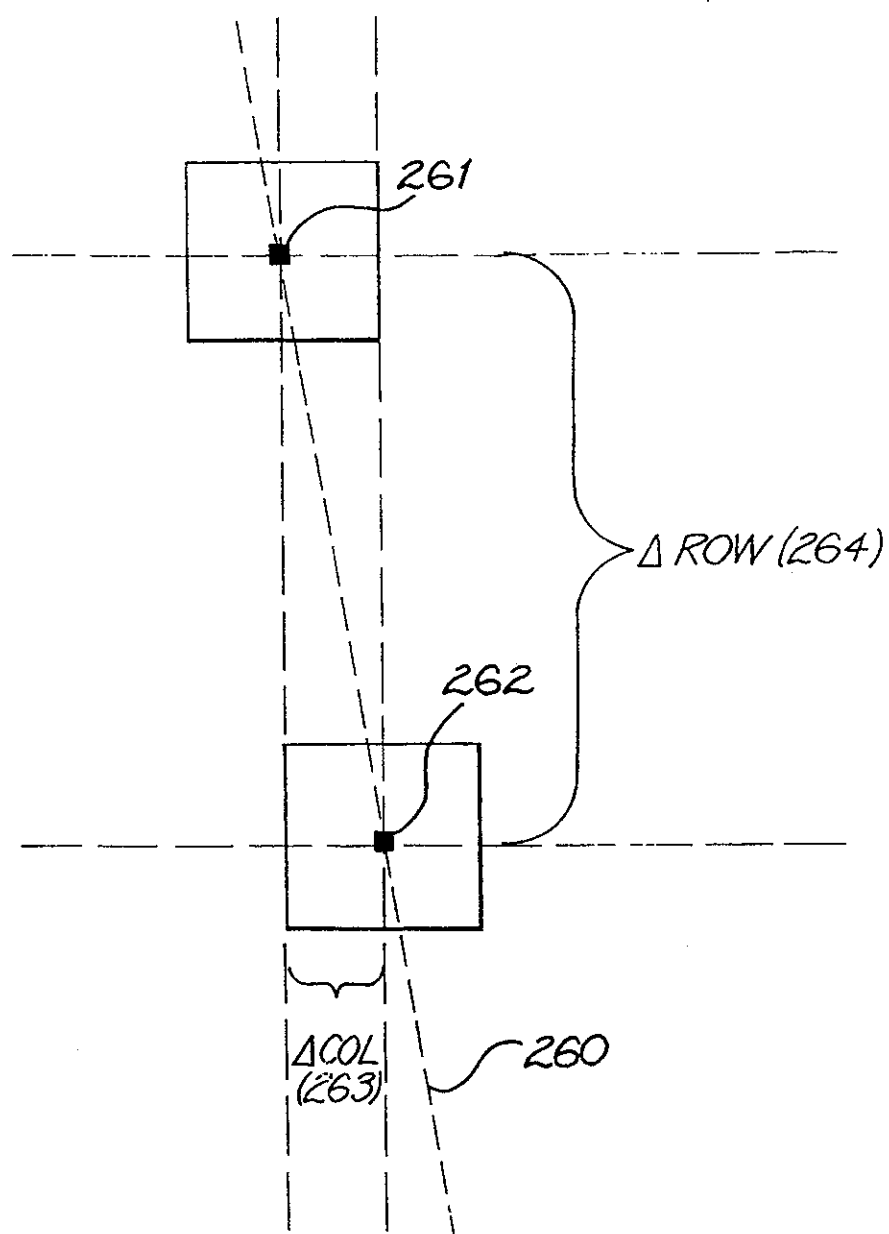
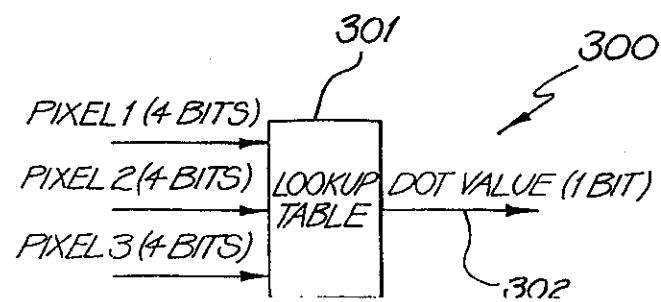
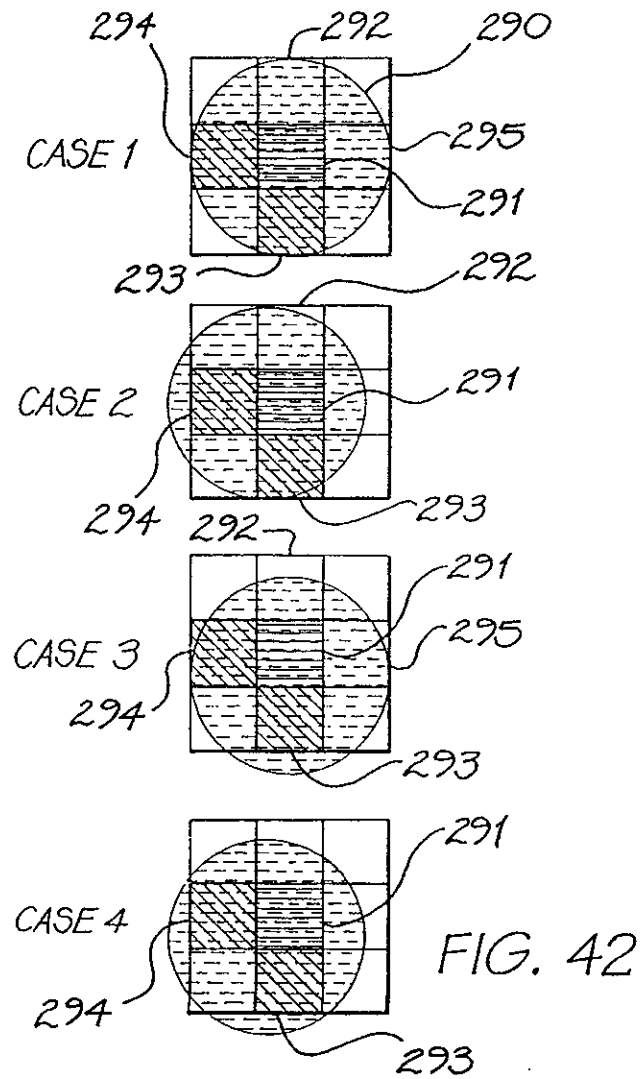


FIG. 41

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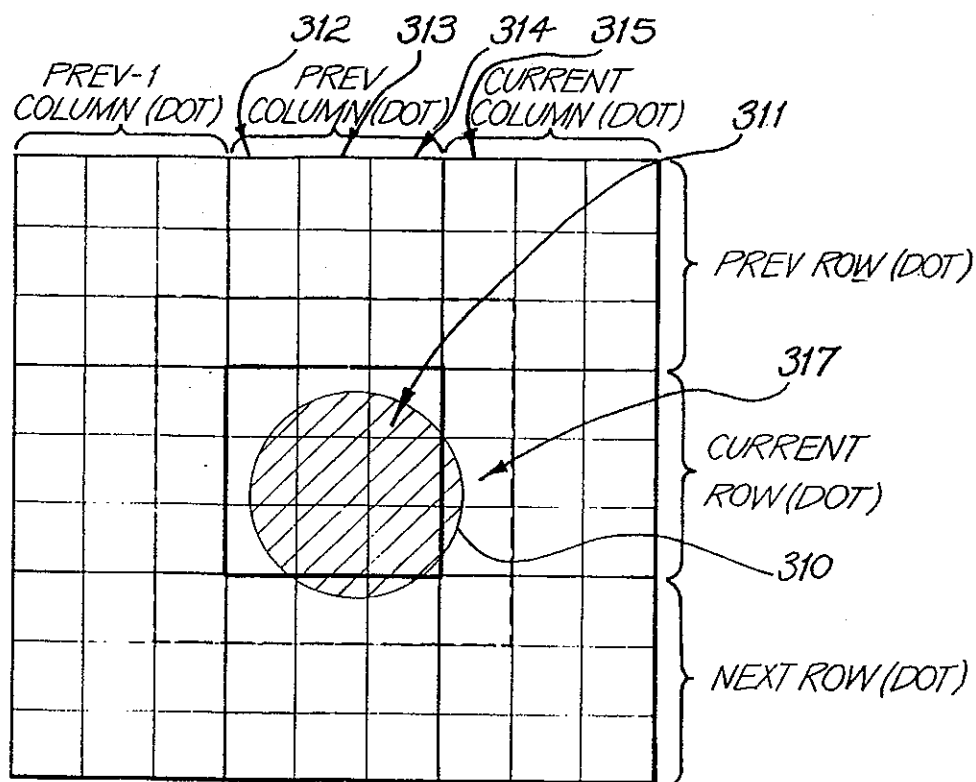
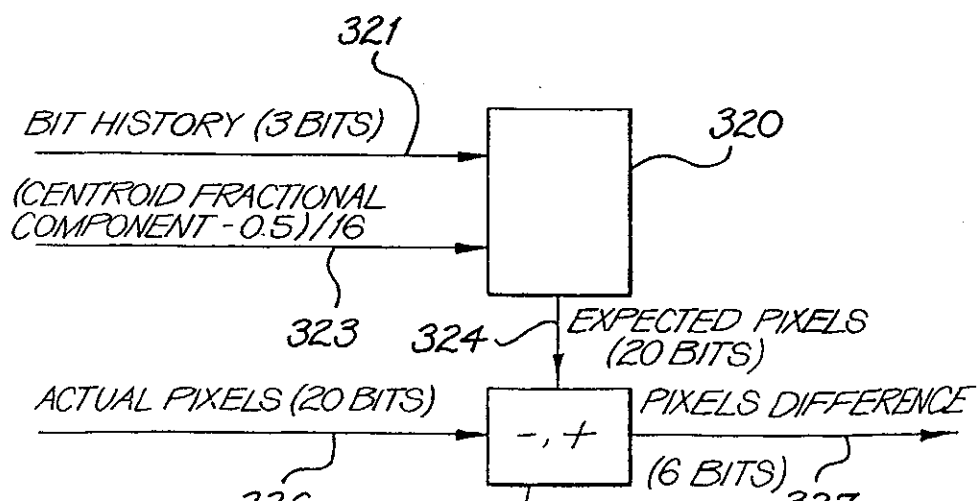


FIG. 44



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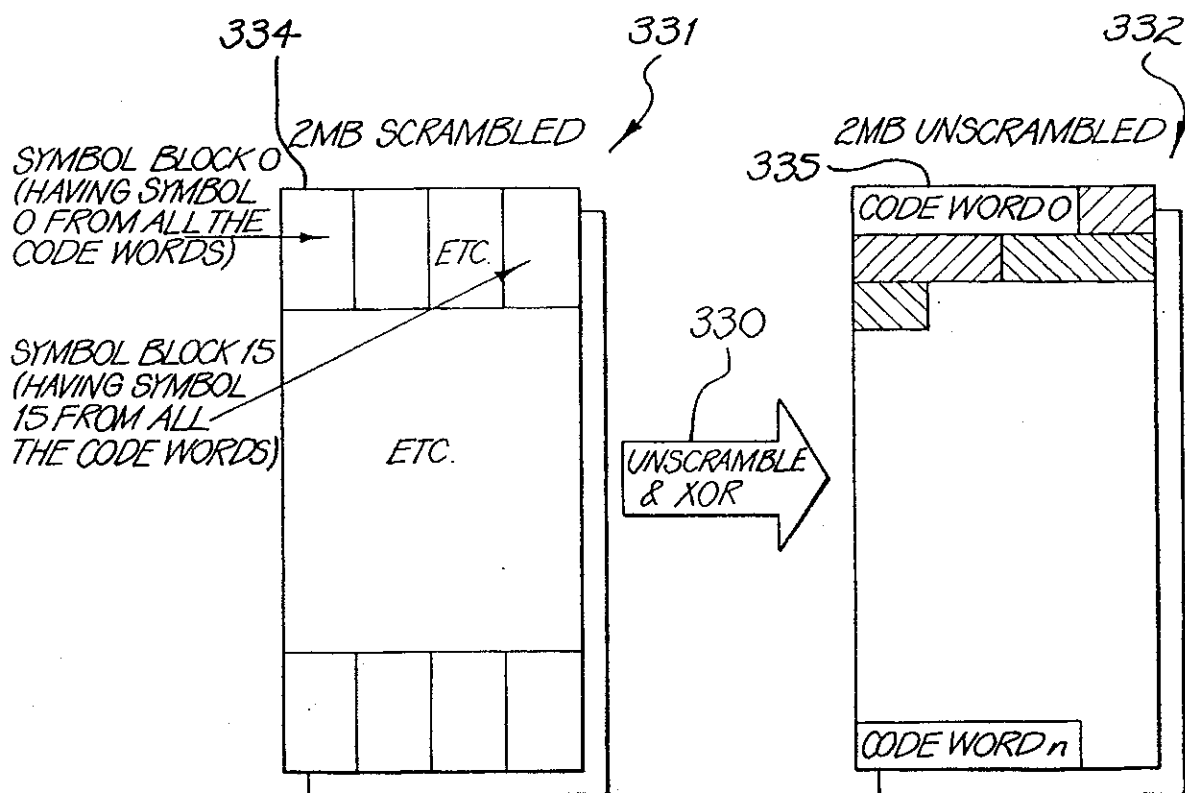


FIG. 46

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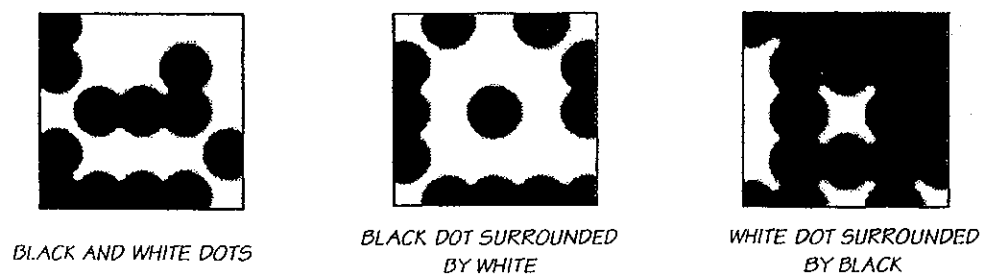


FIG. 47

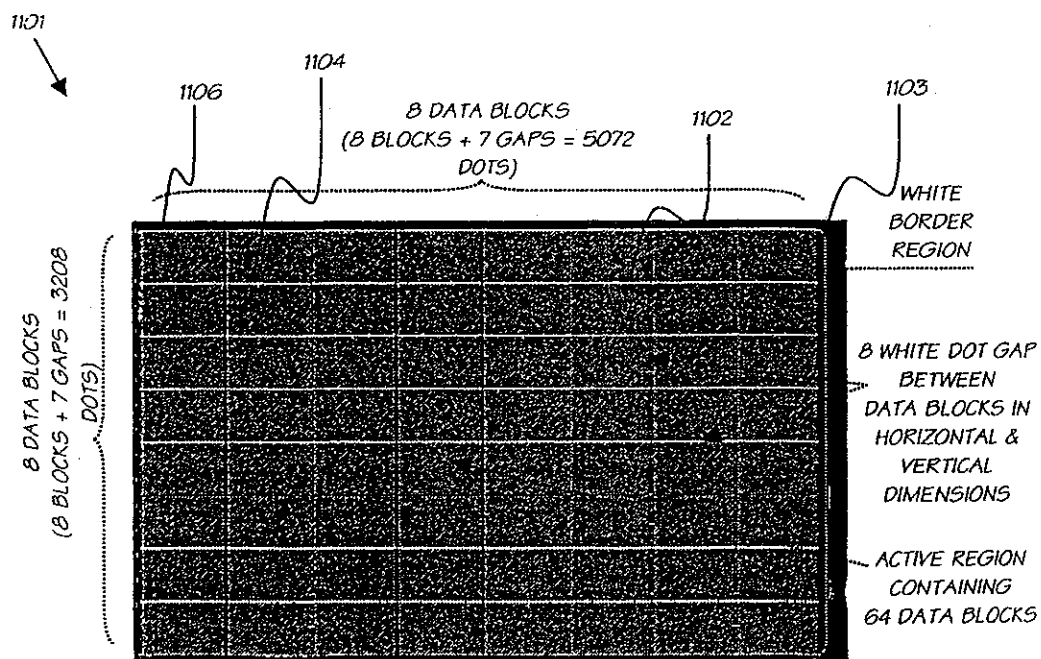


FIG. 48

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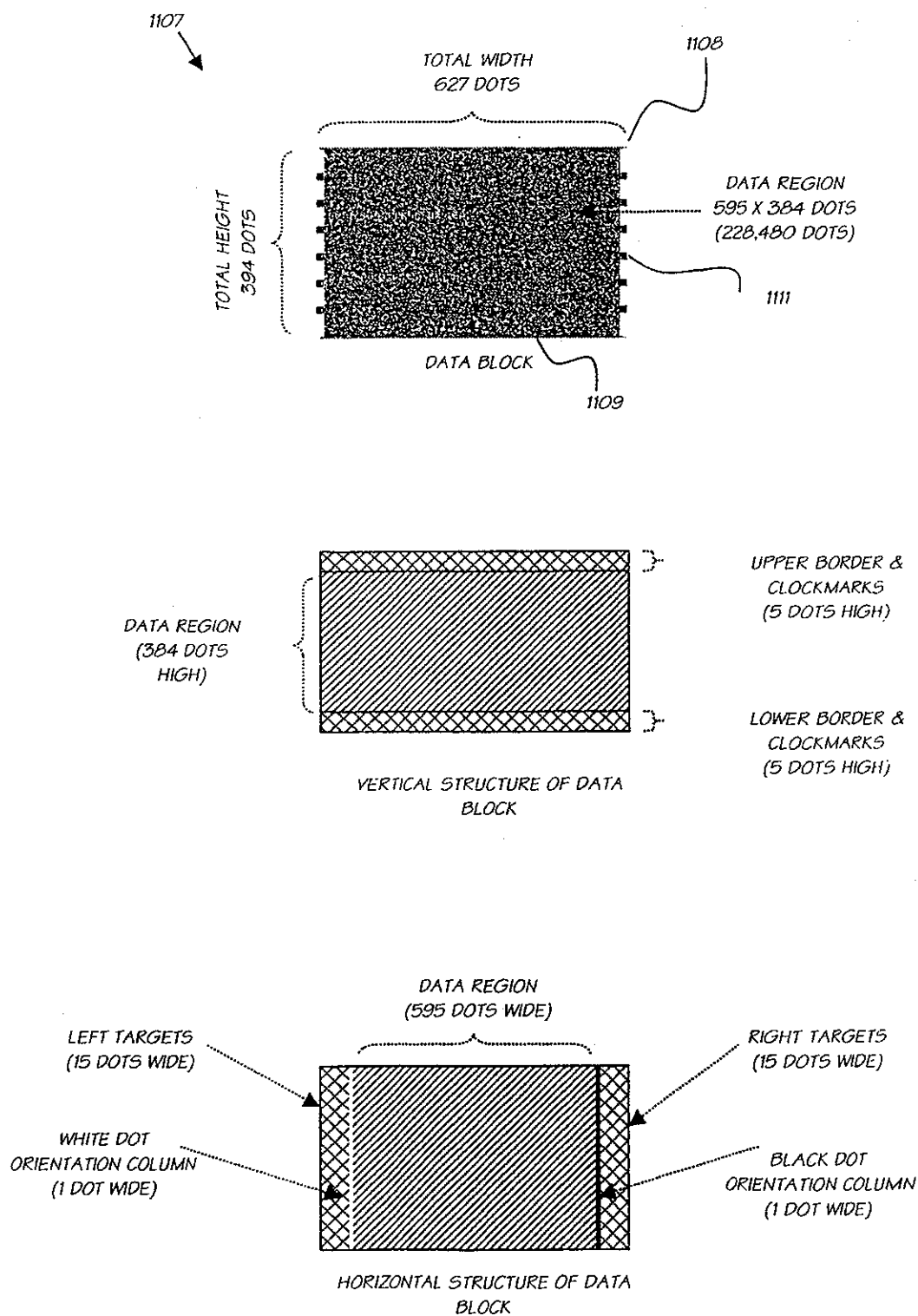


FIG. 4.9

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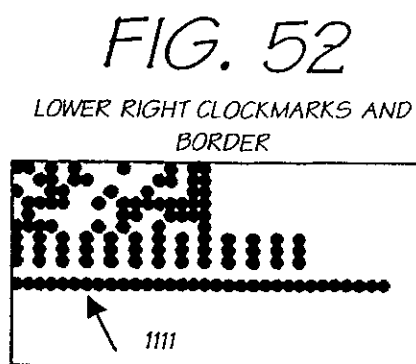
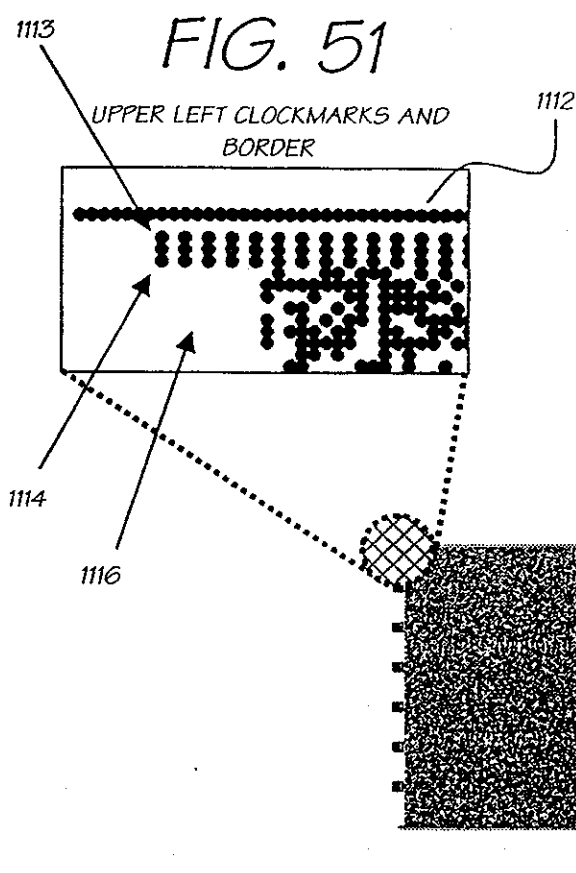


FIG. 50

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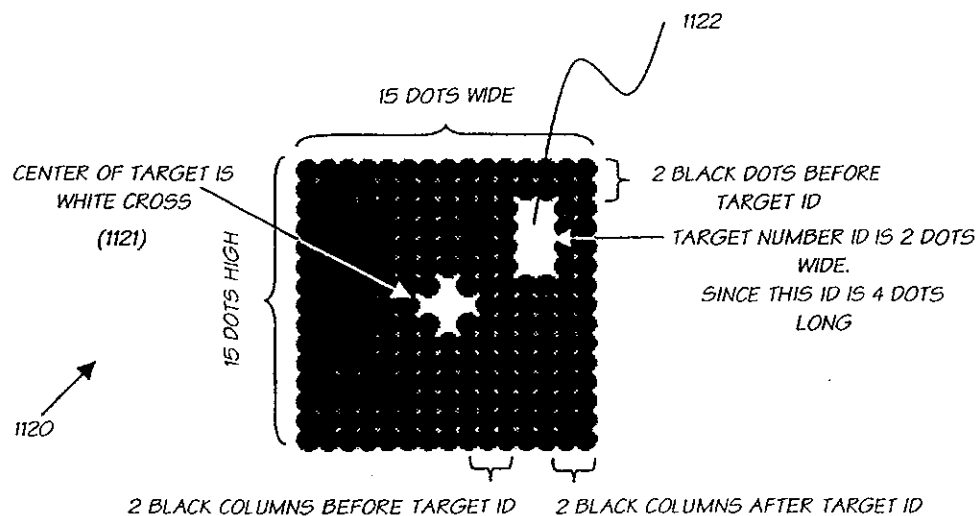


FIG. 53

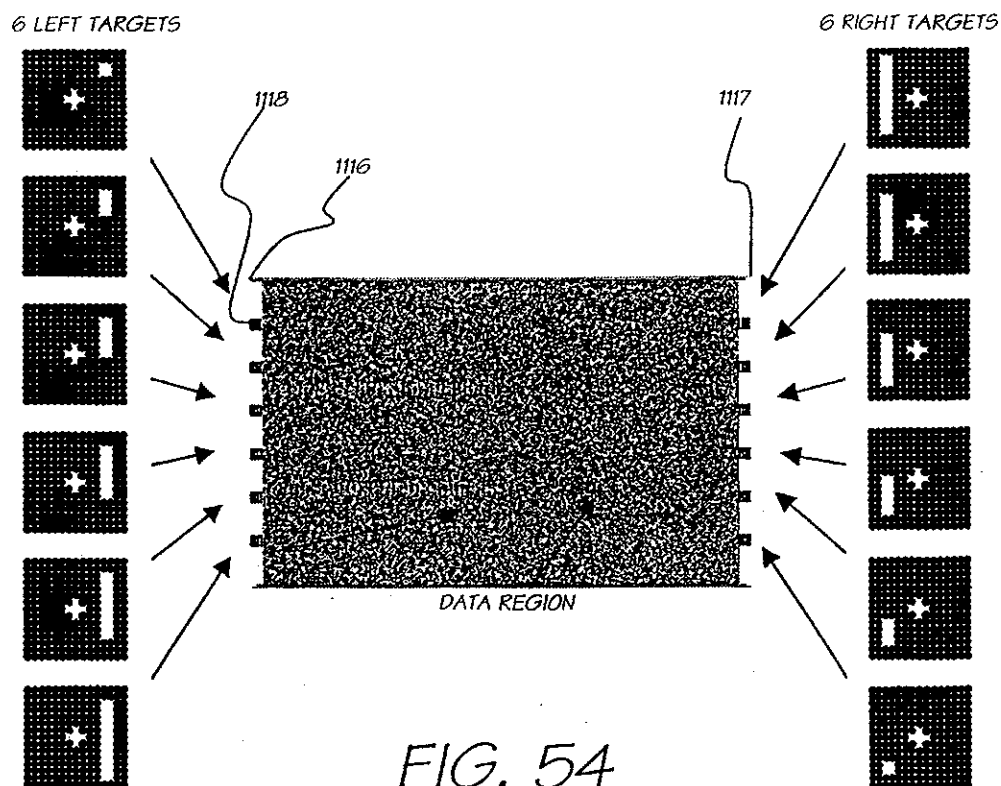


FIG. 54

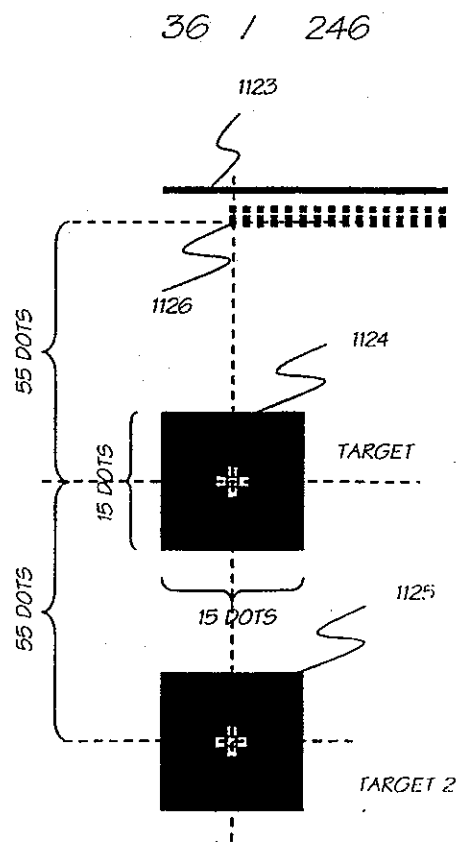
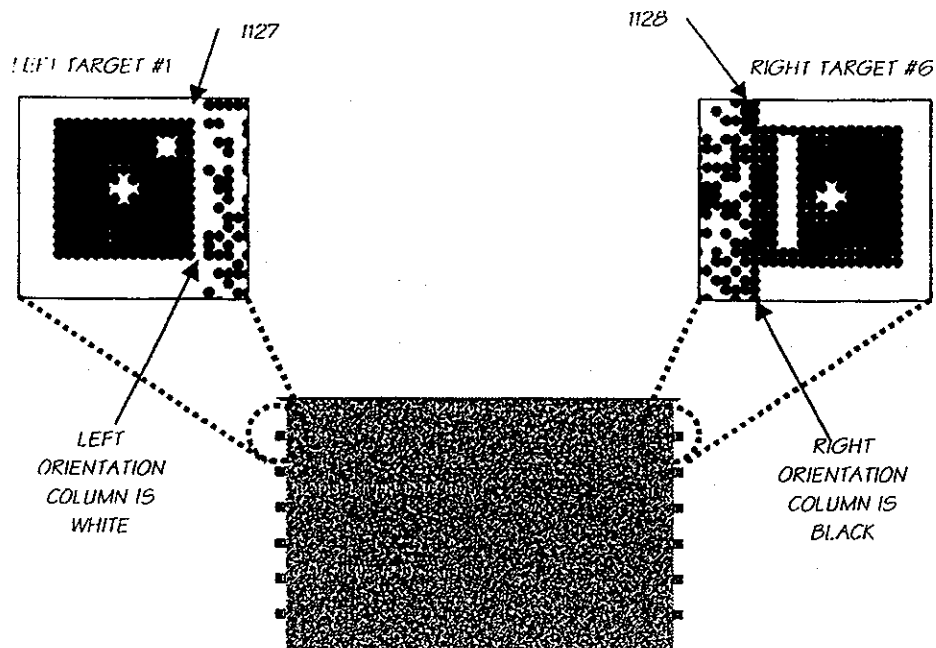


FIG. 55



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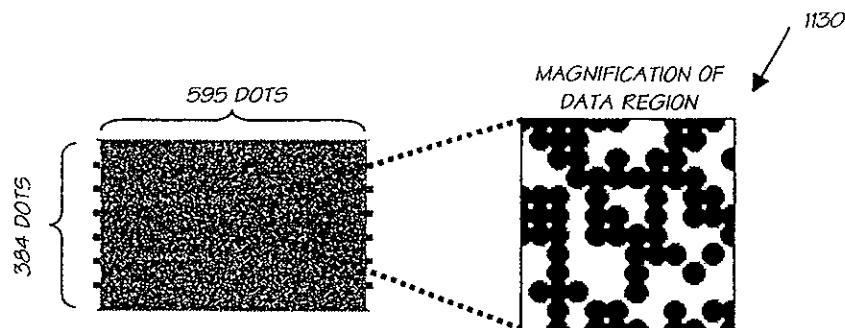


FIG. 57

00:	4F 00 3D 4F 00 3D 4F 00 3D 4F 00 3D	32 COPIES OF THE 3 BYTE CONTROL INFORMATION
0C:	4F 00 3D 4F 00 3D 4F 00 3D 4F 00 3D	
18:	4F 00 3D 4F 00 3D 4F 00 3D 4F 00 3D	
24:	4F 00 3D 4F 00 3D 4F 00 3D 4F 00 3D	
30:	4F 00 3D 4F 00 3D 4F 00 3D 4F 00 3D	
3C:	4F 00 3D 4F 00 3D 4F 00 3D 4F 00 3D	
48:	4F 00 3D 4F 00 3D 4F 00 3D 4F 00 3D	
54:	4F 00 3D 4F 00 3D 4F 00 3D 4F 00 3D	
60:	00 00 00 00 00 00 00 00 00 00 00	RESERVED BYTES ARE 0
6C:	00 00 00 00 00 00 00 00 00 00 00	
78:	00 00 00 00 00 00 00 00 00 00 00	

FIG. 59

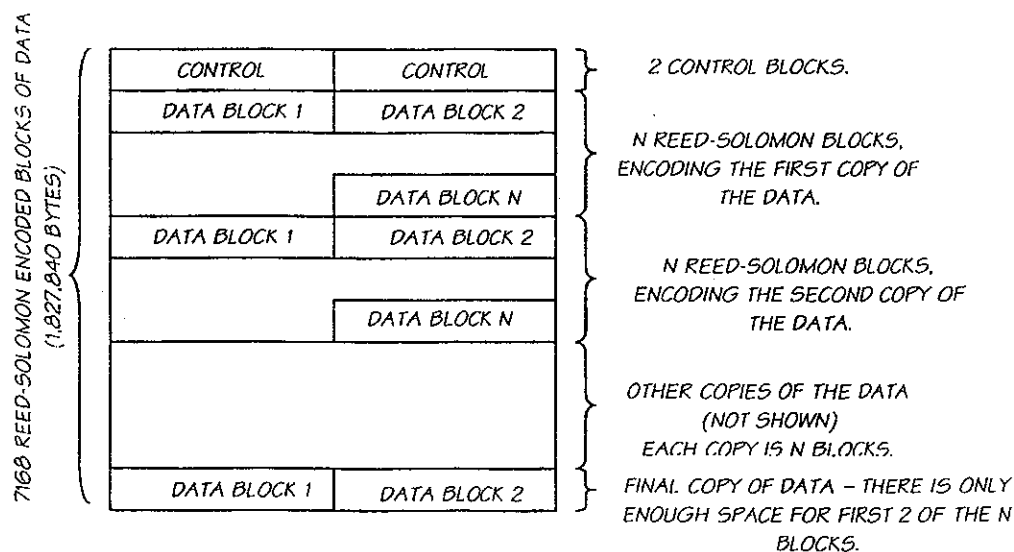


FIG. 58

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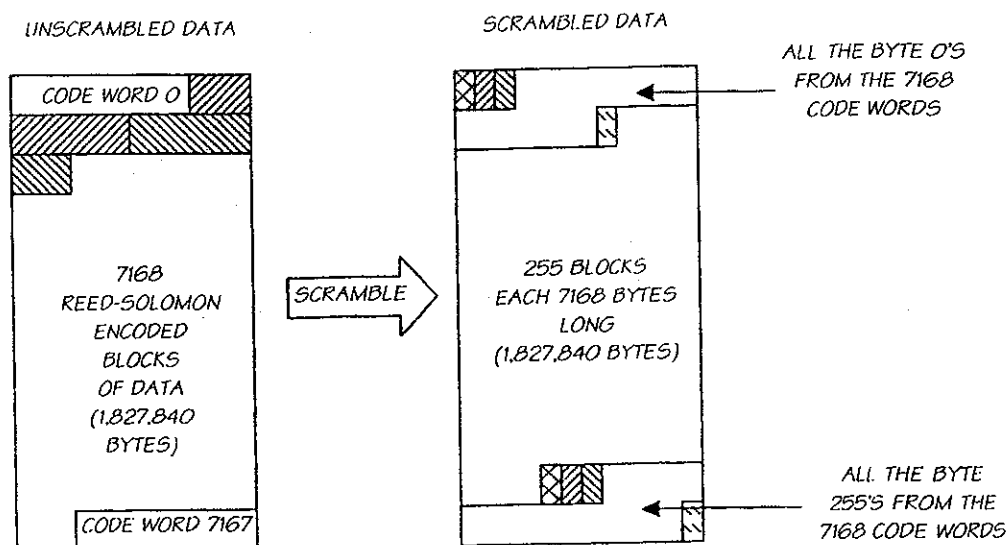


FIG. 60

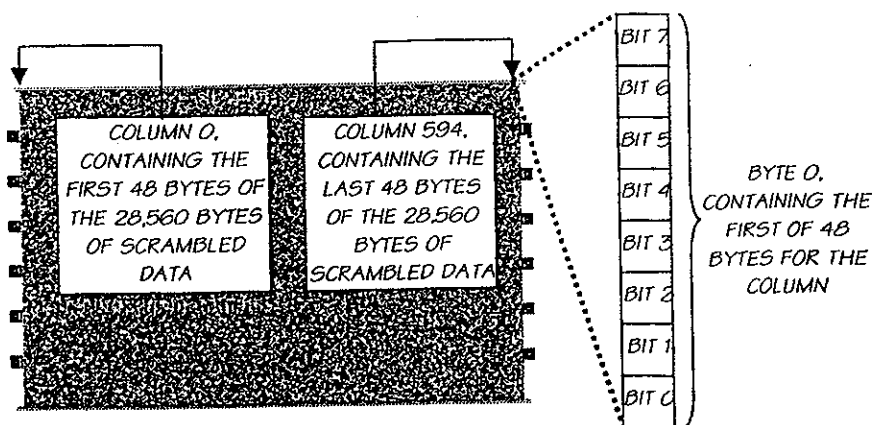


FIG. 61

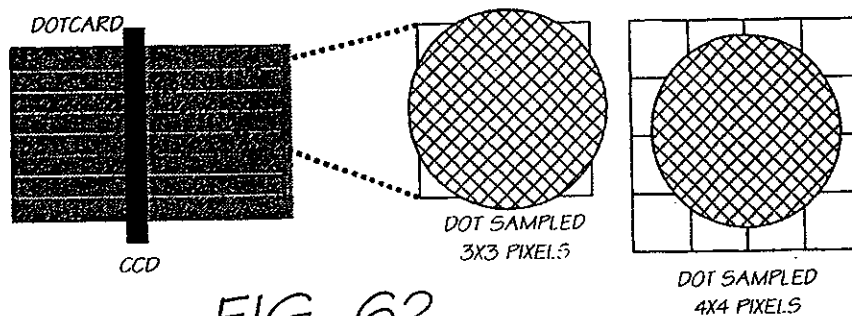


FIG. 62

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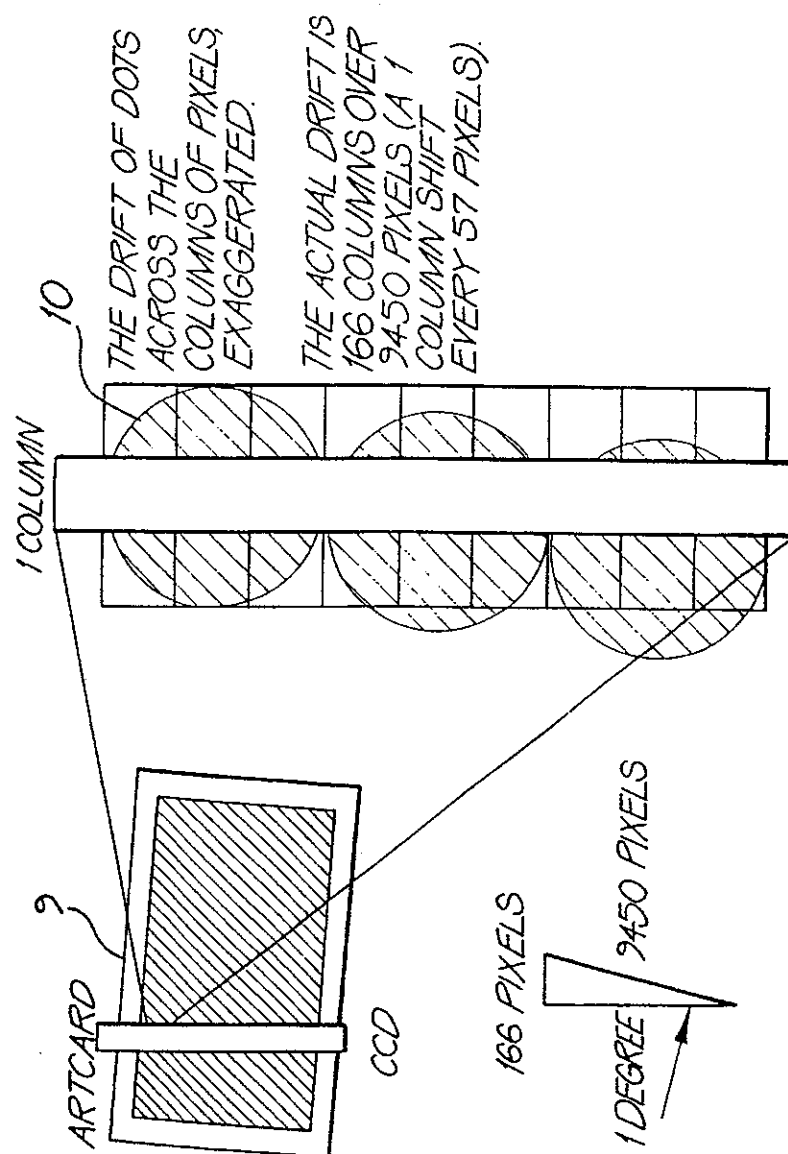


FIG. 63

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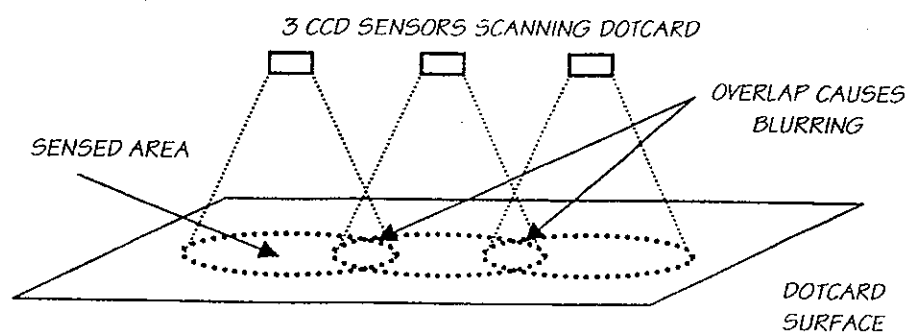


FIG. 64

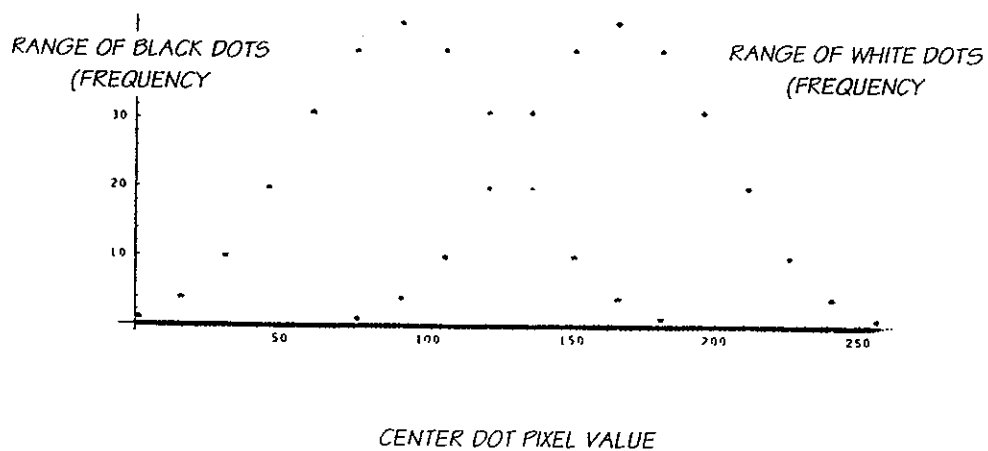


FIG. 65

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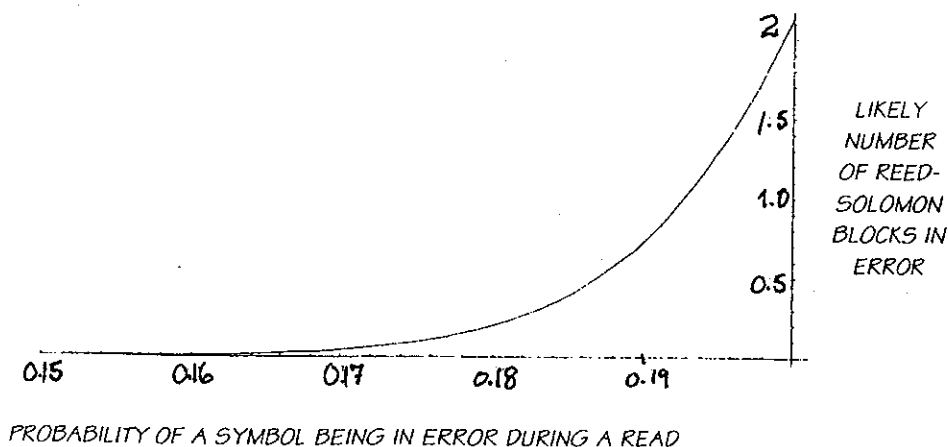
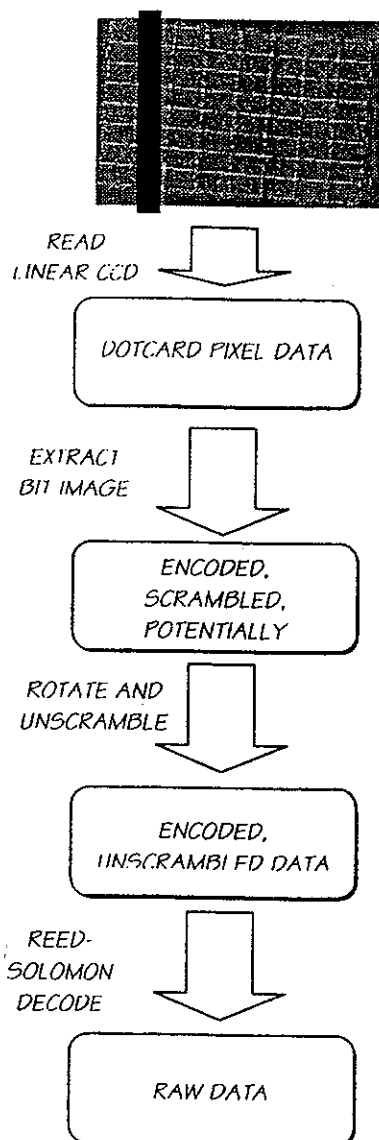


FIG. 66



APPROXIMATE DATA SIZES FOR 1600 DPI DOTCARD

86MM + 1MM IN HORIZONTAL DIMENSION FOR P ROTATION =
87MM
87MM = 16,252 SCANLINES
16,440 SCANLINES @ 11,000 PIXELS PER SCANLINE =
180,840,000 PIXELS
180,840,000 PIXELS @ 1 BYTE PER PIXEL = 180,840,000 BYTES
= 172.5 MB

64 DATA BLOCKS, EACH CONTAINING 597 COLUMNS (595 DATA REGION COLUMNS AND 2 ORIENTATION COLUMNS), @ 48 BYTES PER COLUMN = 28,656 BYTES PER DATA BLOCK FOR A TOTAL OF 1,833,984 BYTES.

64 DATA BLOCKS, EACH CONTAINING 112 ENCODED REED SOLOMON BLOCKS, @ 255 BYTES PER REED SOLOMON BLOCK FOR A TOTAL OF 1,827,840 BYTES.

DECODED DATA, WITH A MAXIMUM SIZE OF 910,082 BYTES.
(64 X 112 X 127 - (2 CONTROL BLOCKS @ 127 BYTES))

FIG. 67

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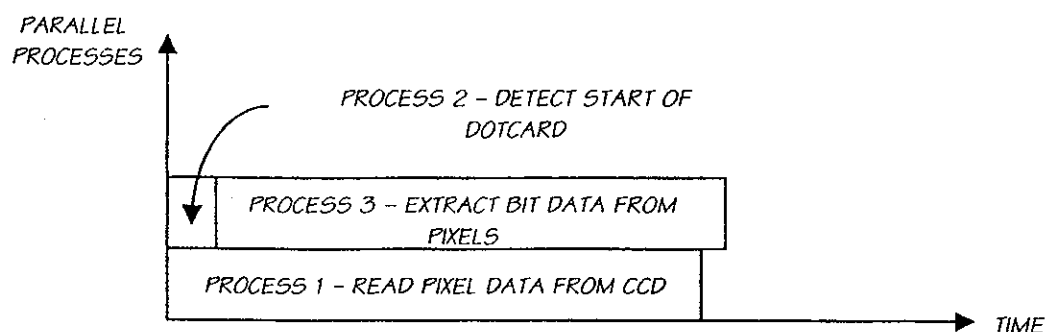


FIG. 68

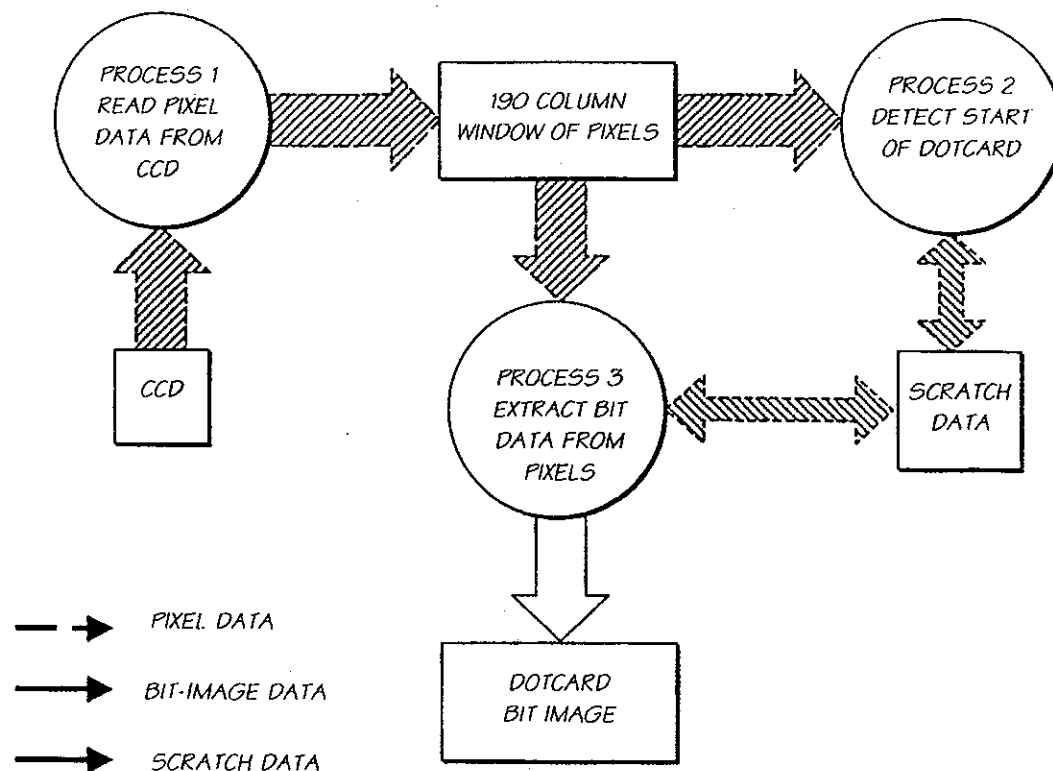


FIG. 69

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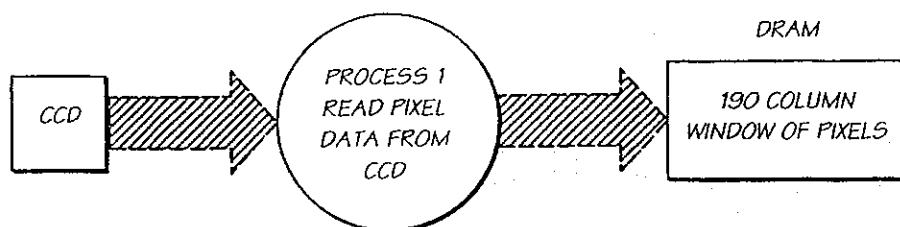


FIG. 70

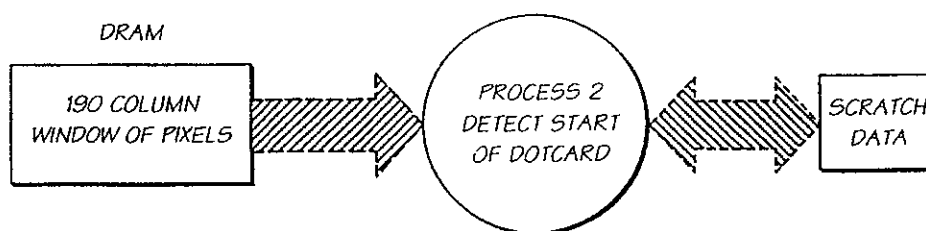


FIG. 71

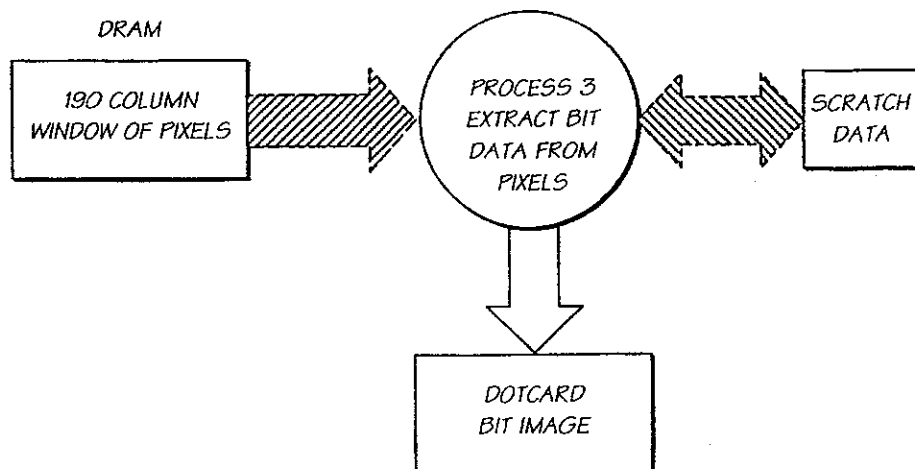


FIG. 72

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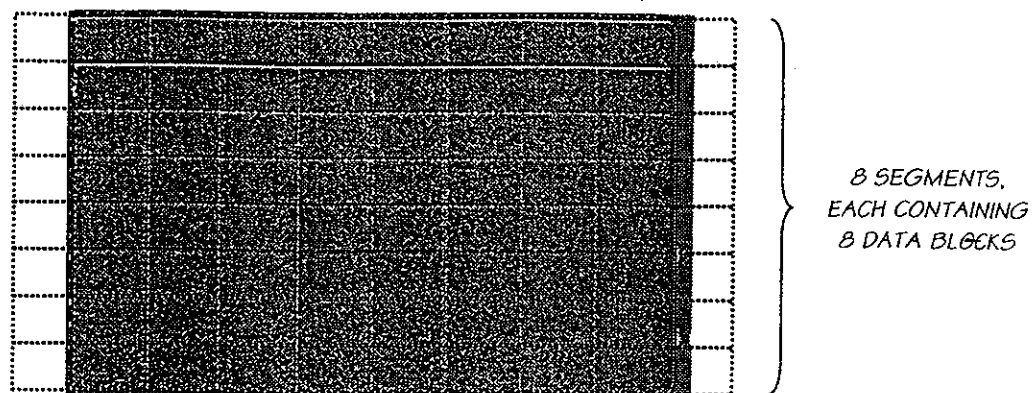


FIG. 73

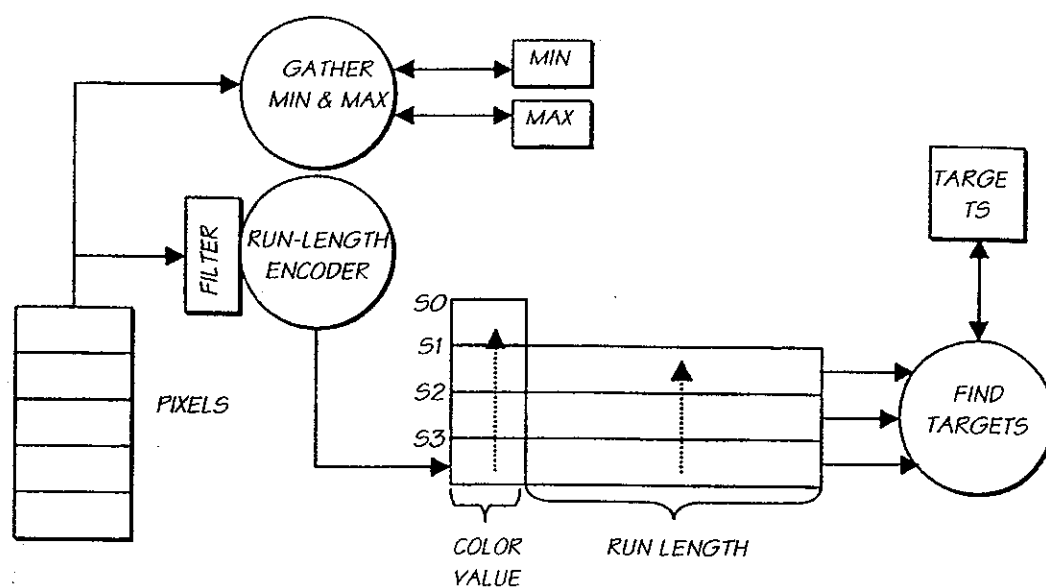


FIG. 74

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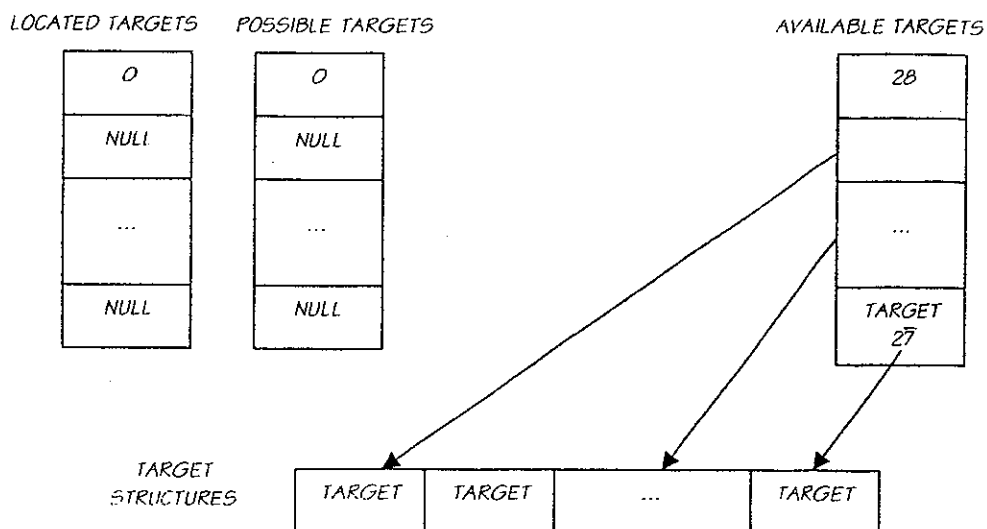
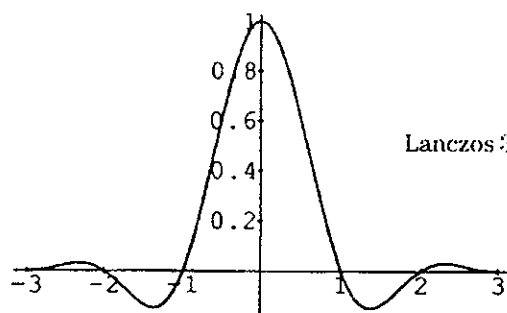


FIG. 75



$$\text{Lanczos 3}(x) = \begin{cases} \frac{\sin(\pi x)}{\pi x} \frac{\sin\left(\frac{\pi x}{3}\right)}{\frac{\pi x}{3}}, & |x| < 3 \\ 0, & |x| \geq 3 \end{cases}$$

FIG. 76

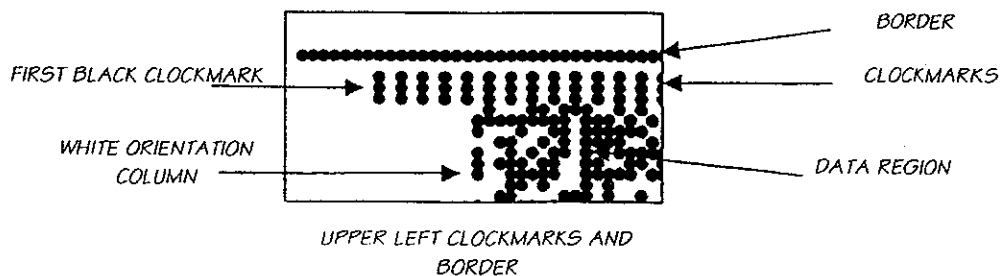


FIG. 77

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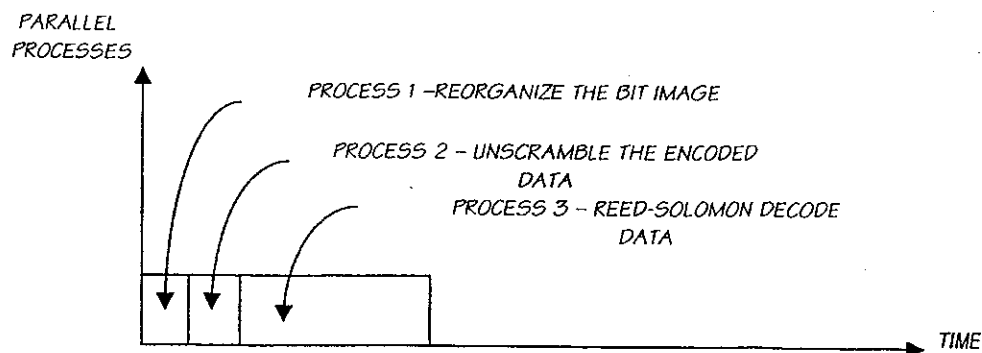


FIG. 78

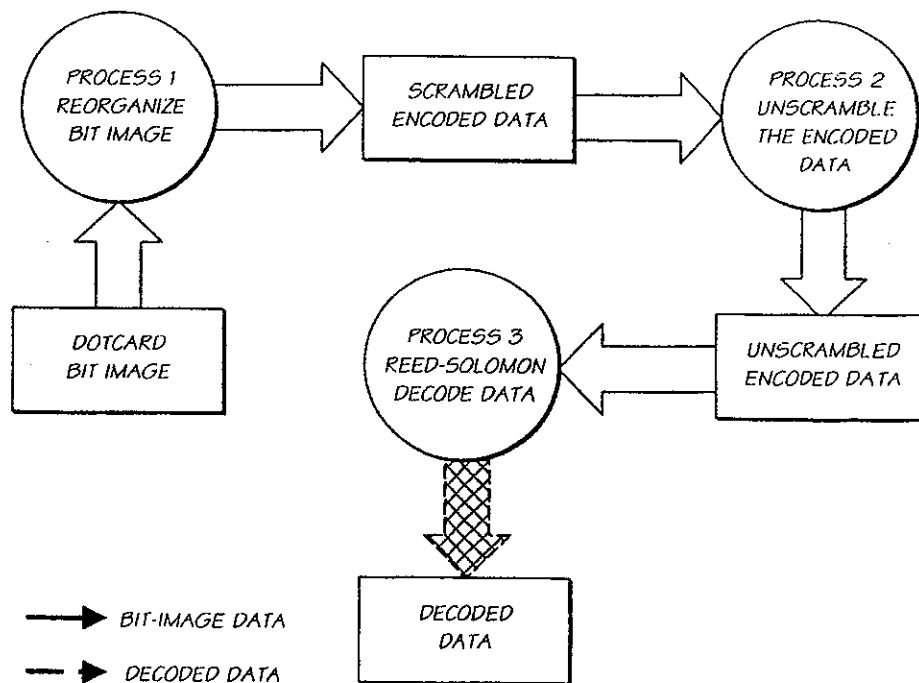


FIG. 79

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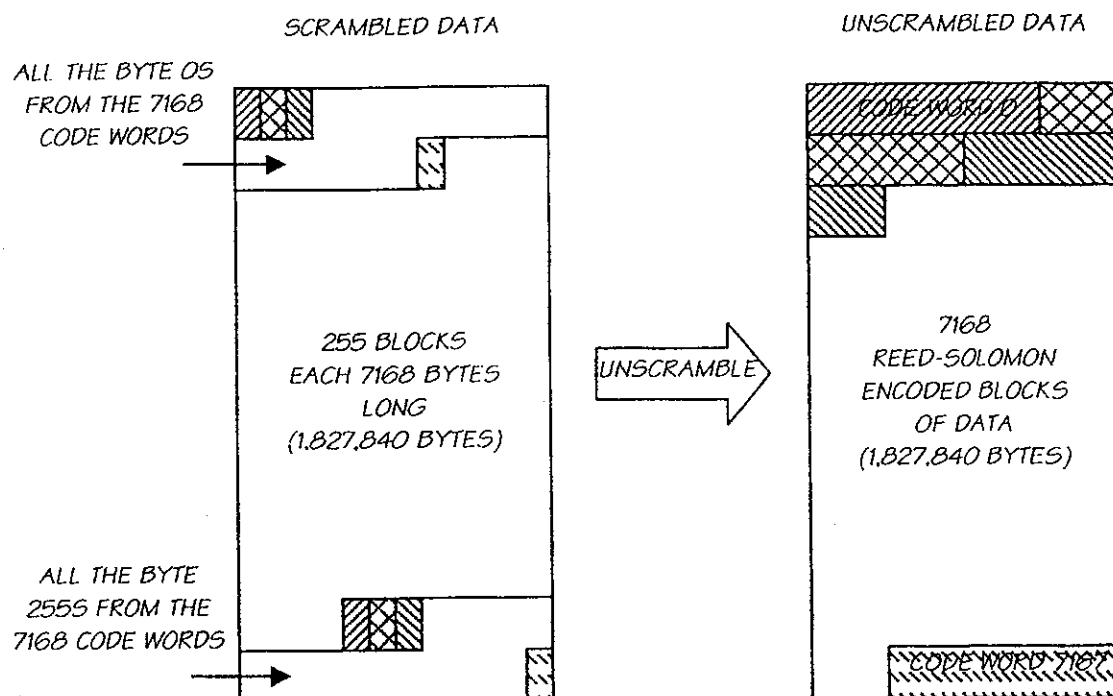


FIG. 80

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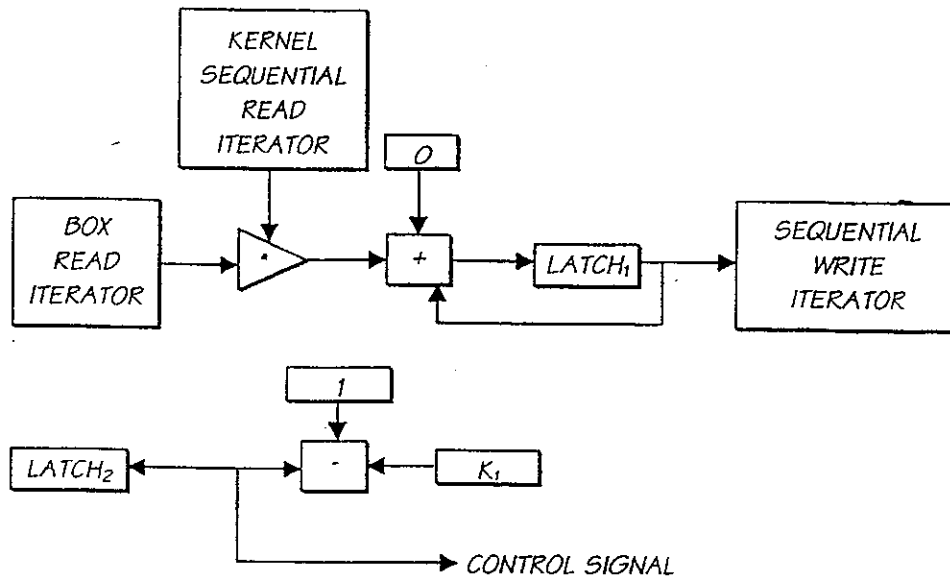


FIG. 81

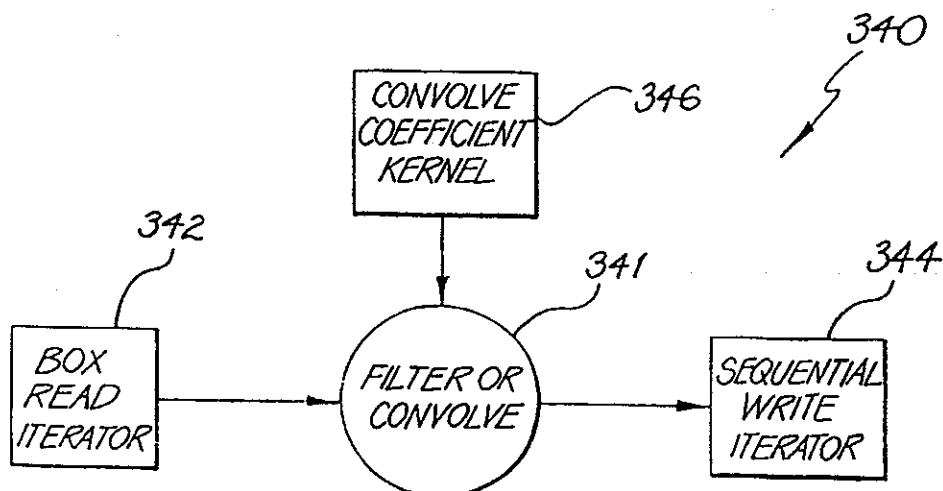


FIG. 82

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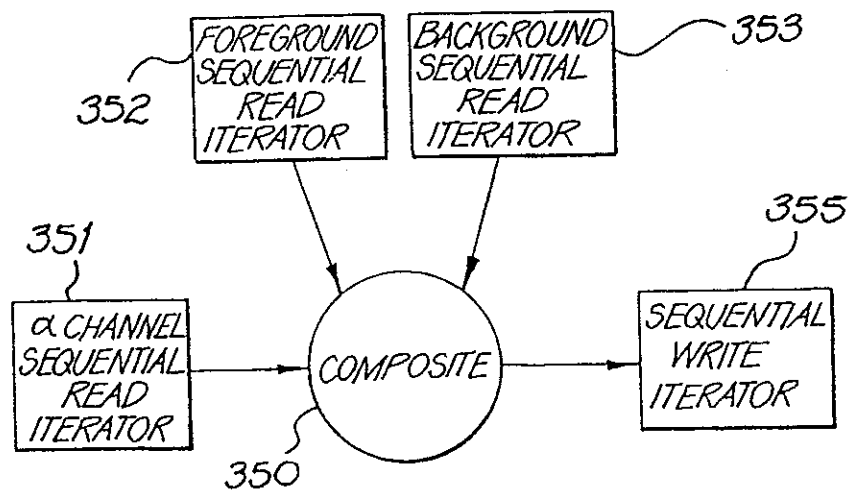
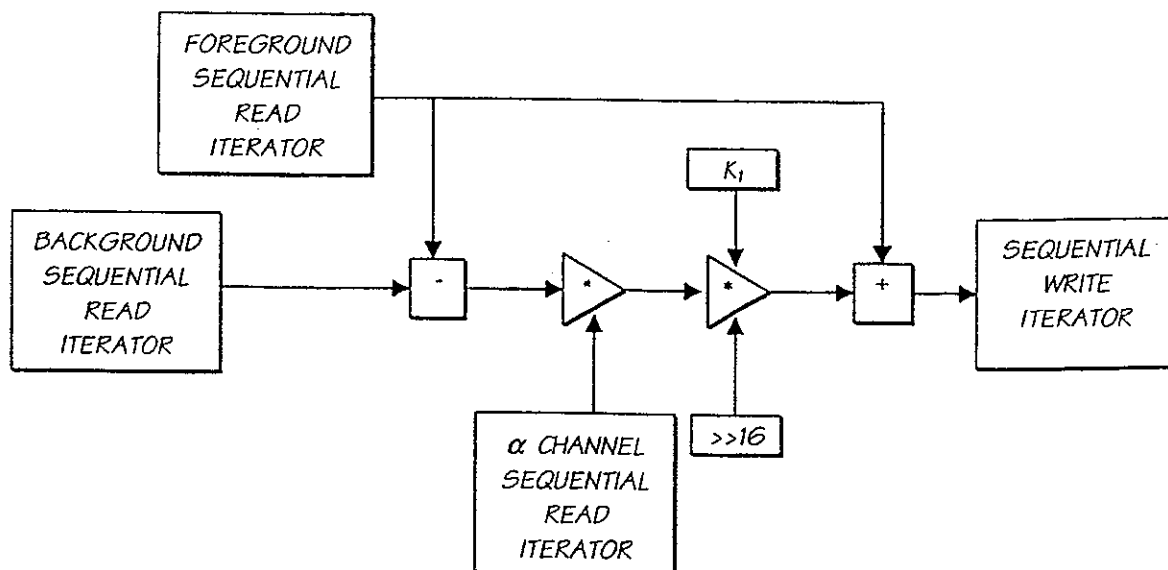


FIG. 83



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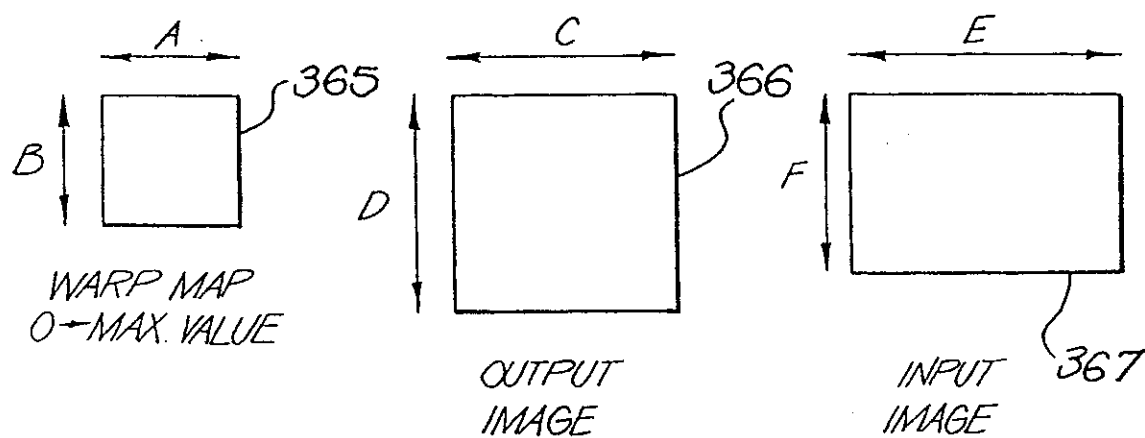


FIG. 85

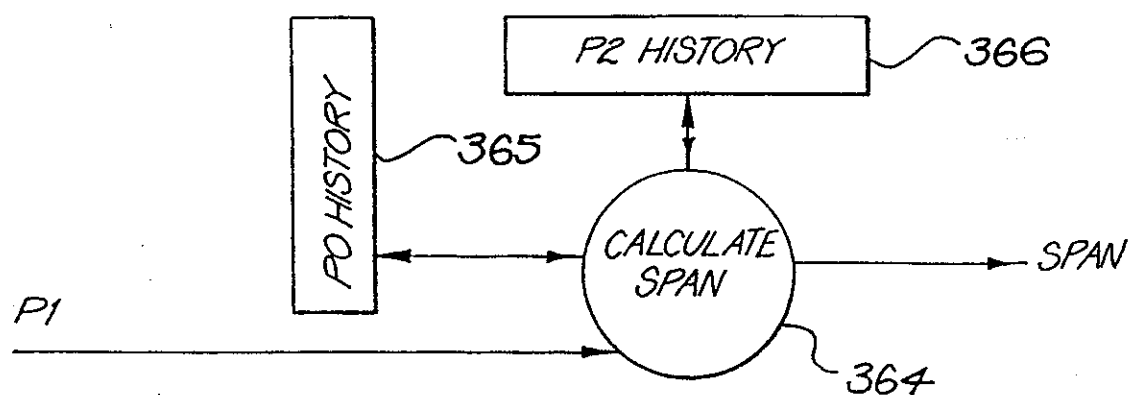


FIG. 86

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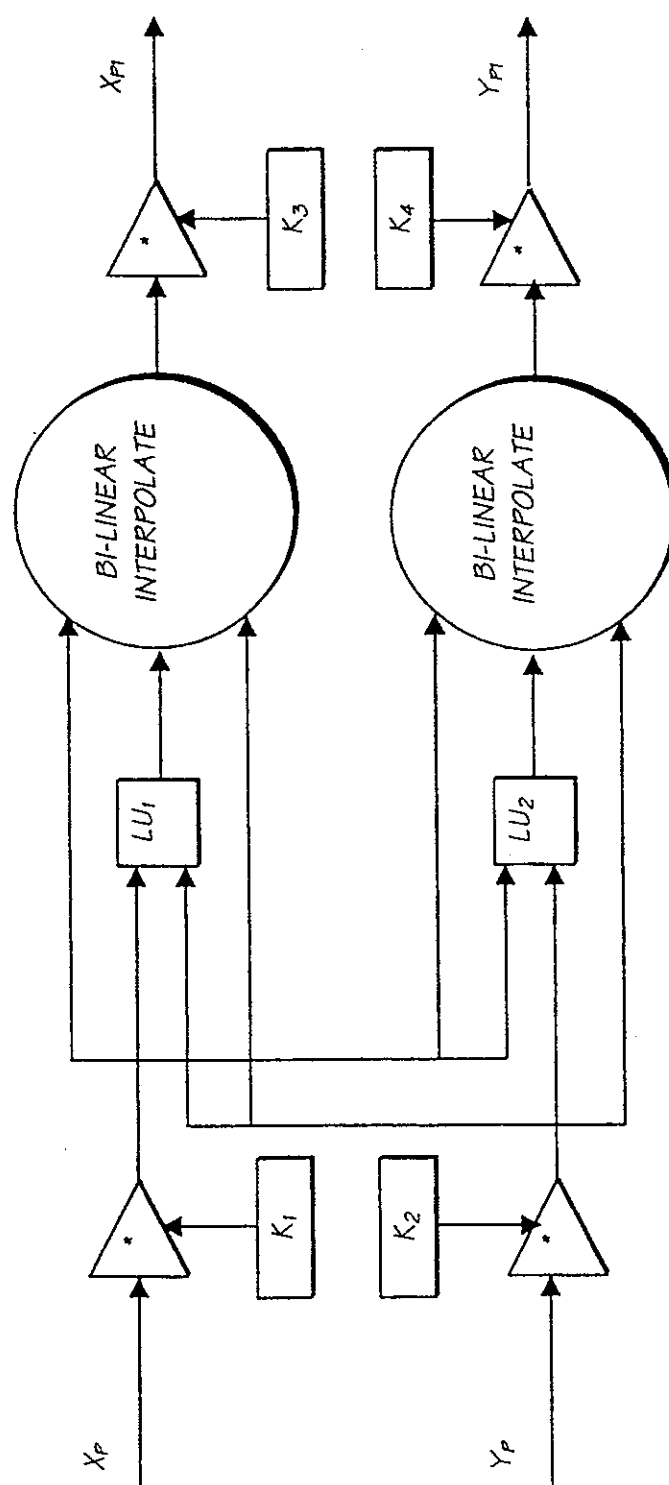


FIG. 87

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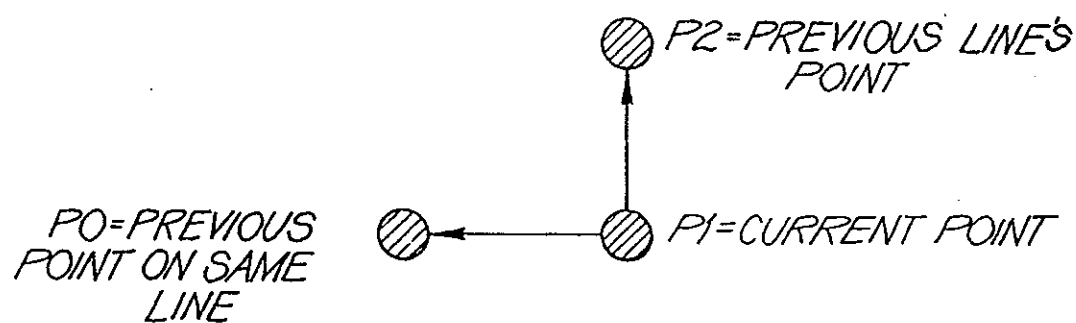


FIG. 88

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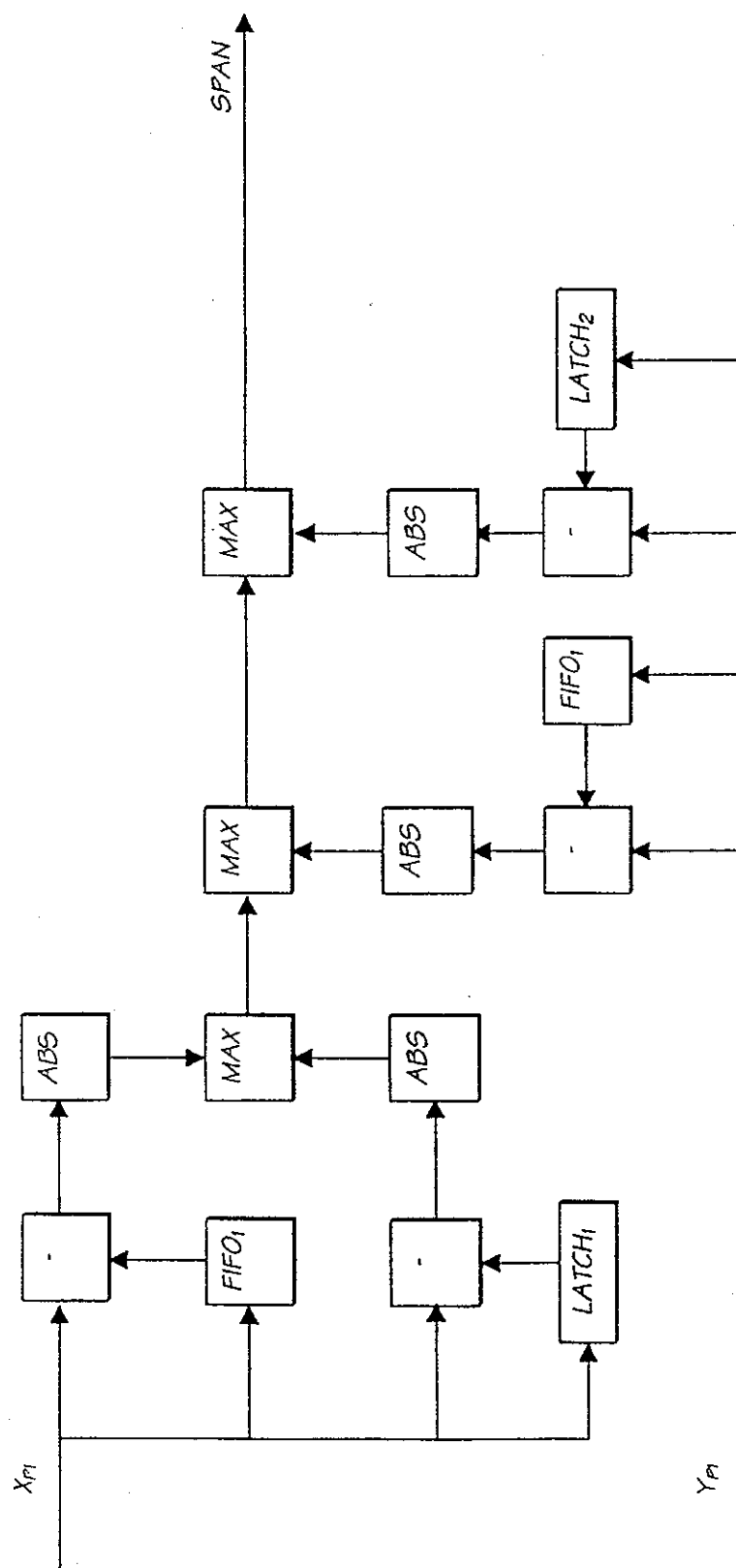


FIG. 89

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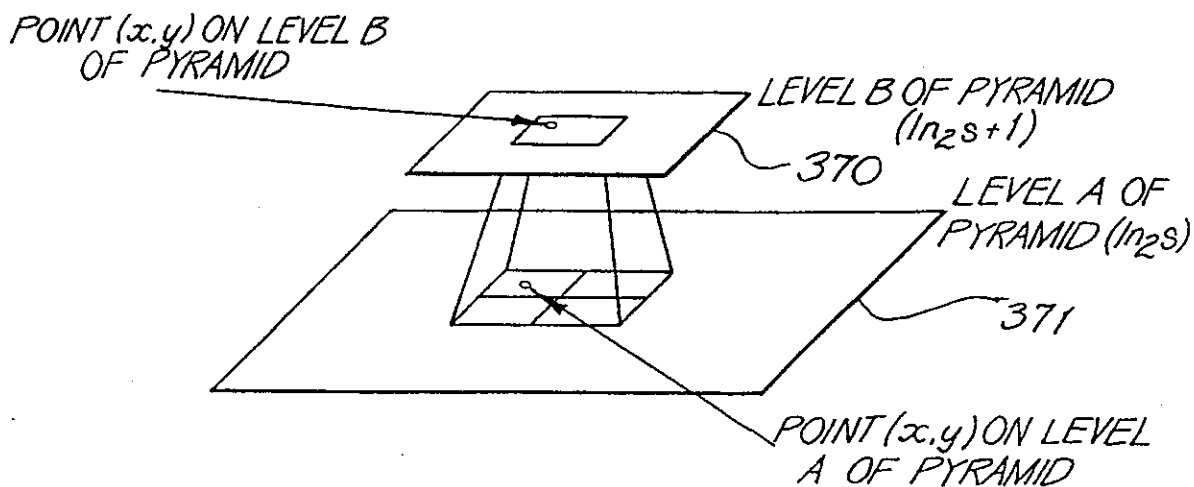


FIG. 90

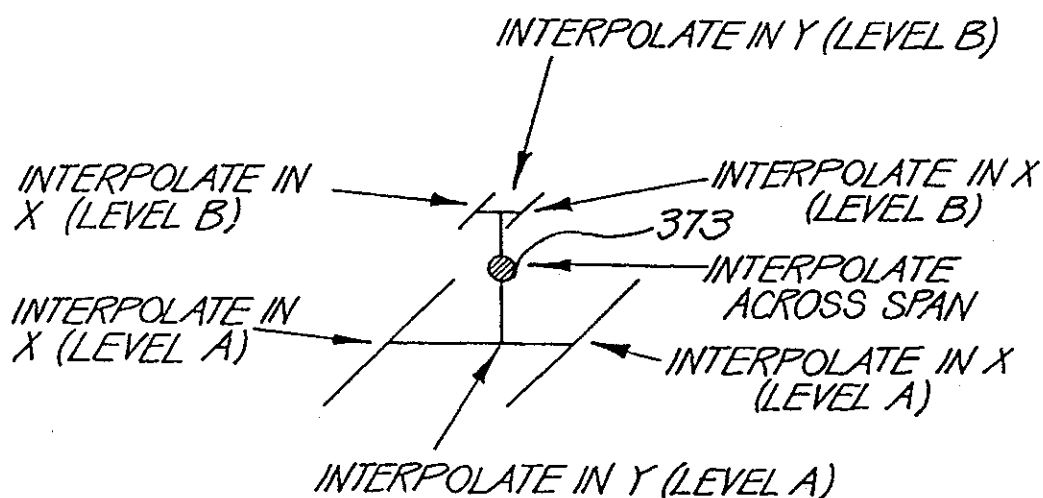


FIG. 91

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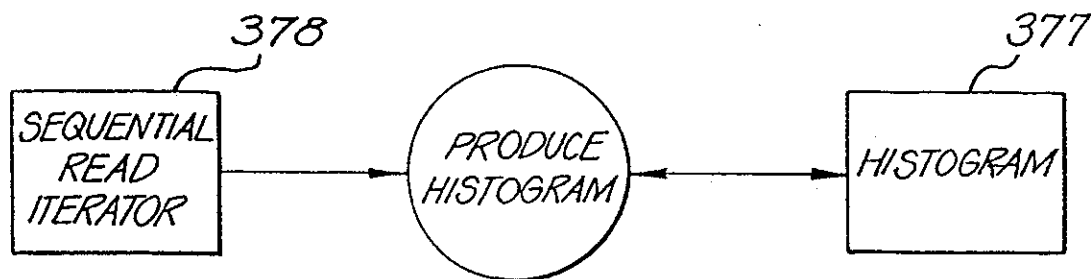


FIG. 92

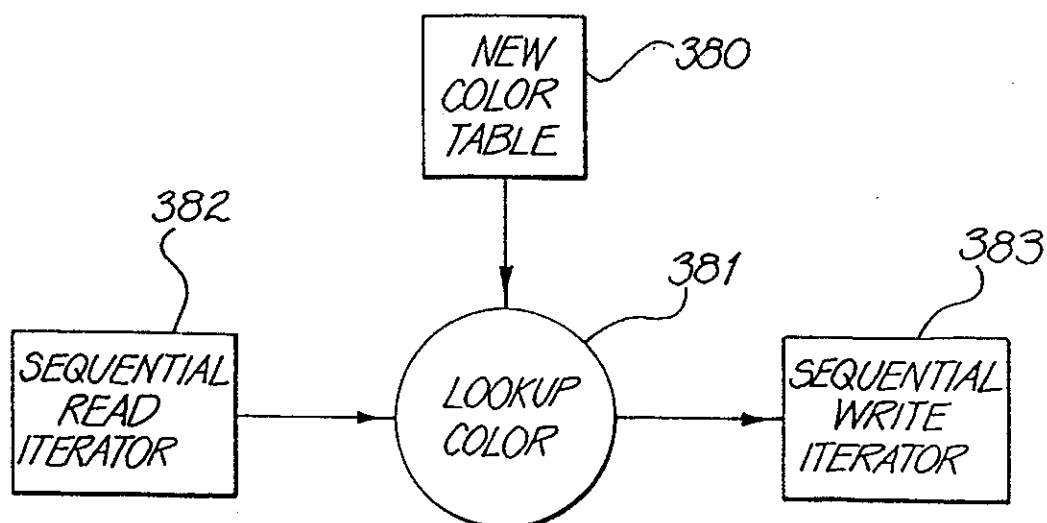


FIG. 93

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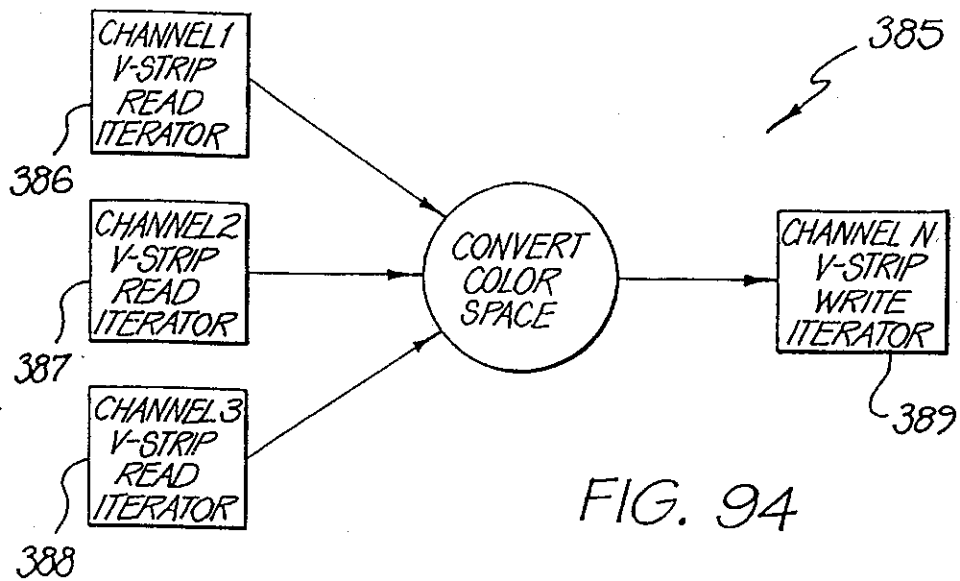


FIG. 94

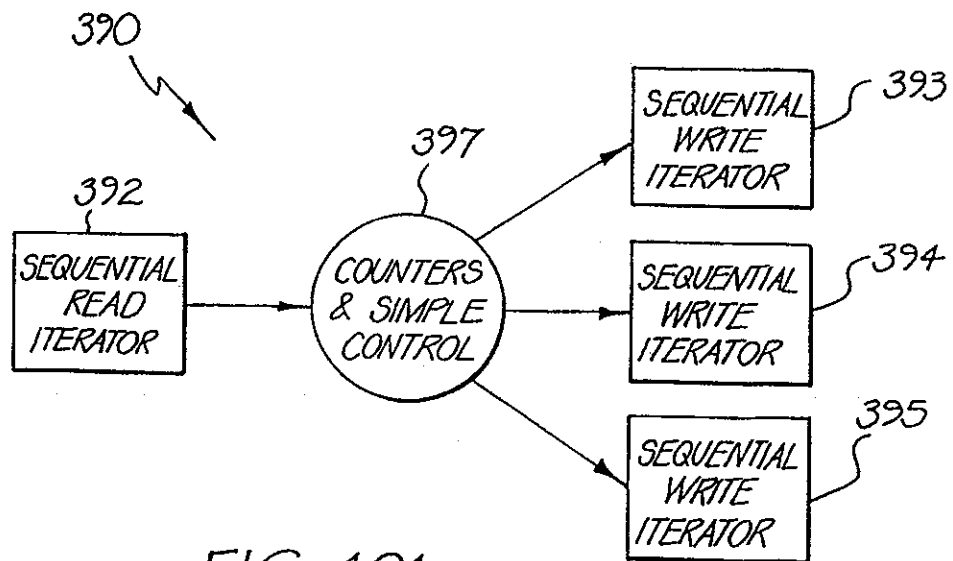


FIG. 101

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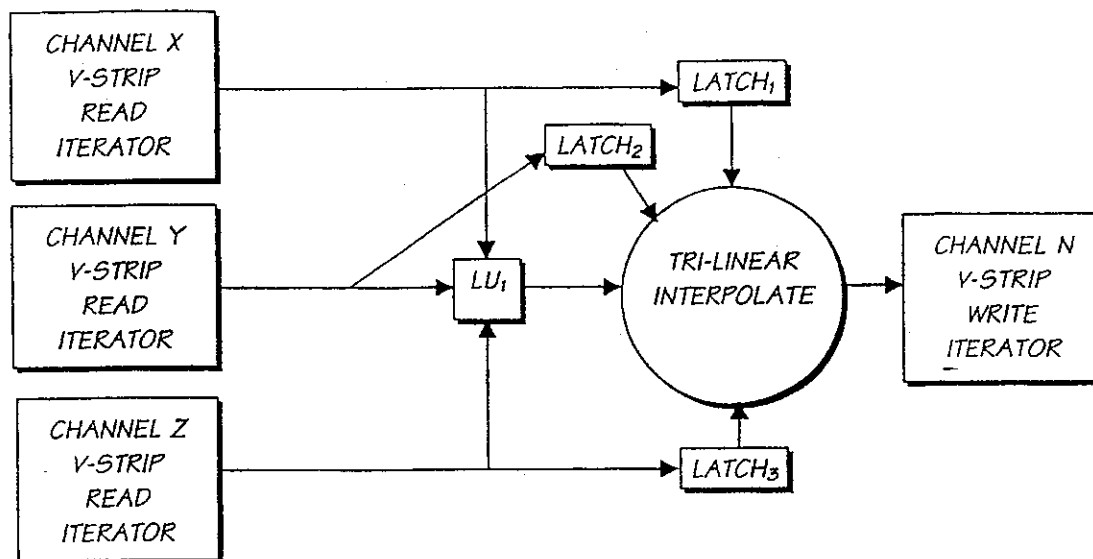


FIG. 95

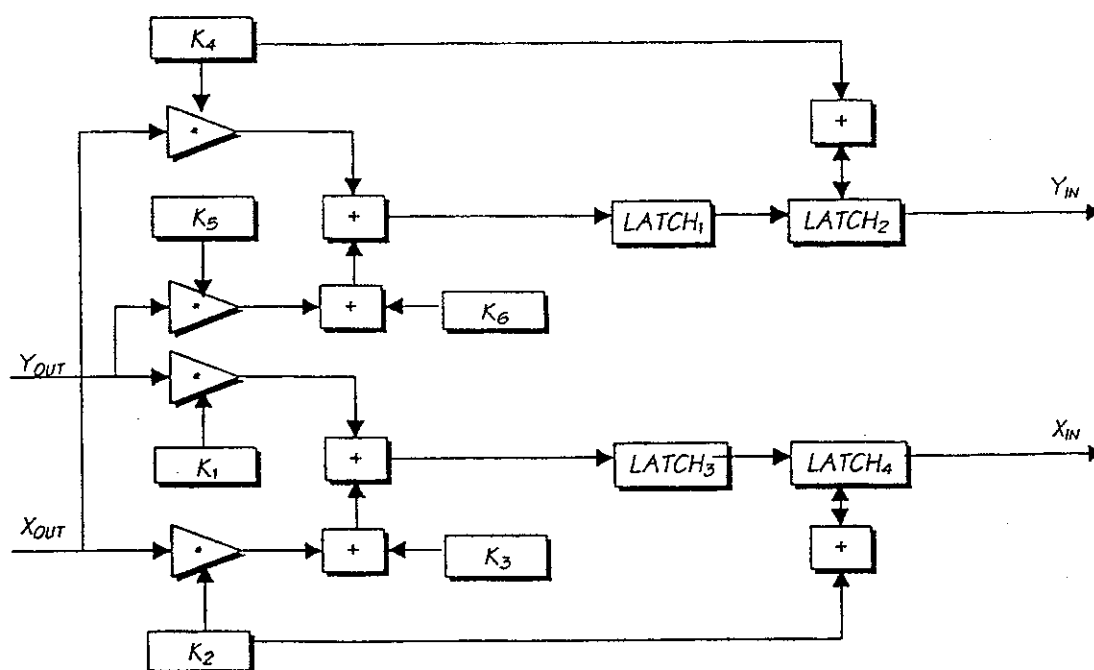


FIG. 96

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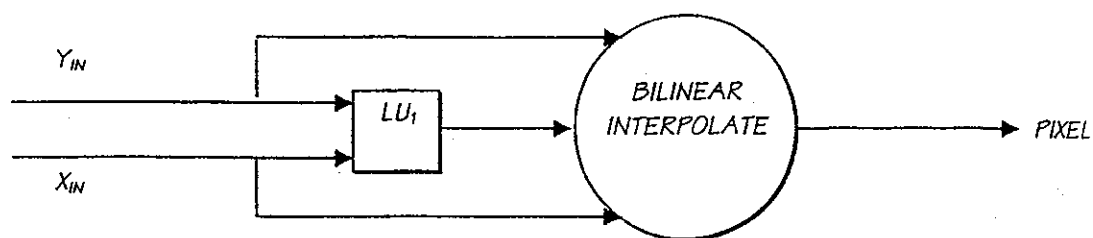


FIG. 97

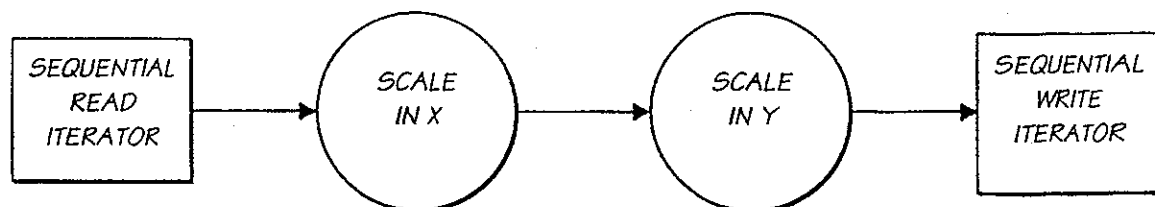


FIG. 98

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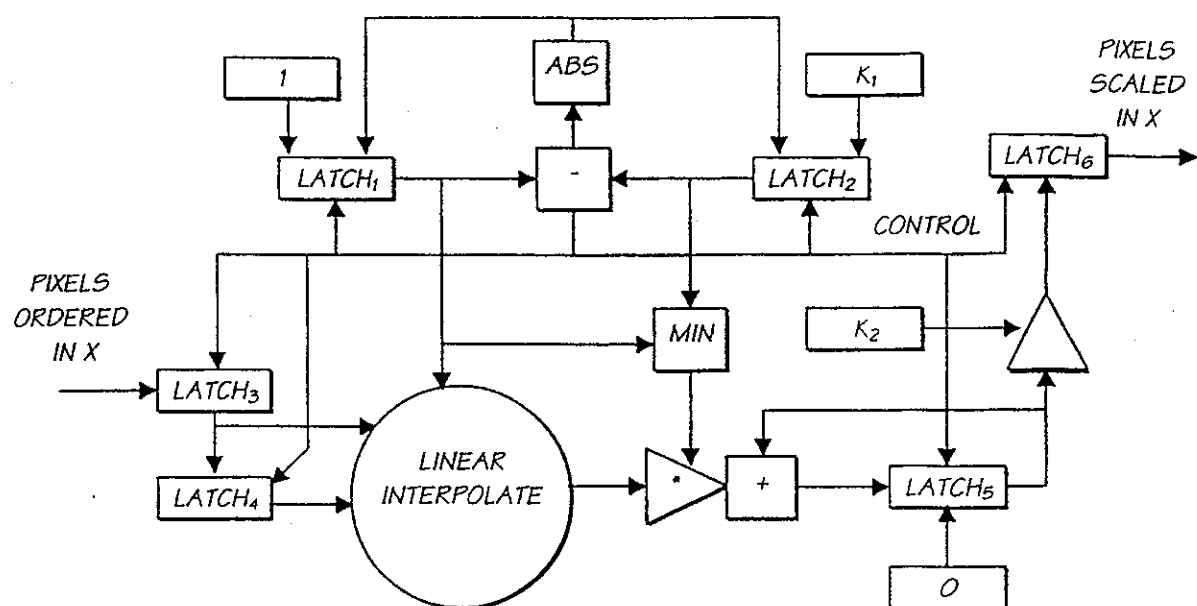


FIG. 99

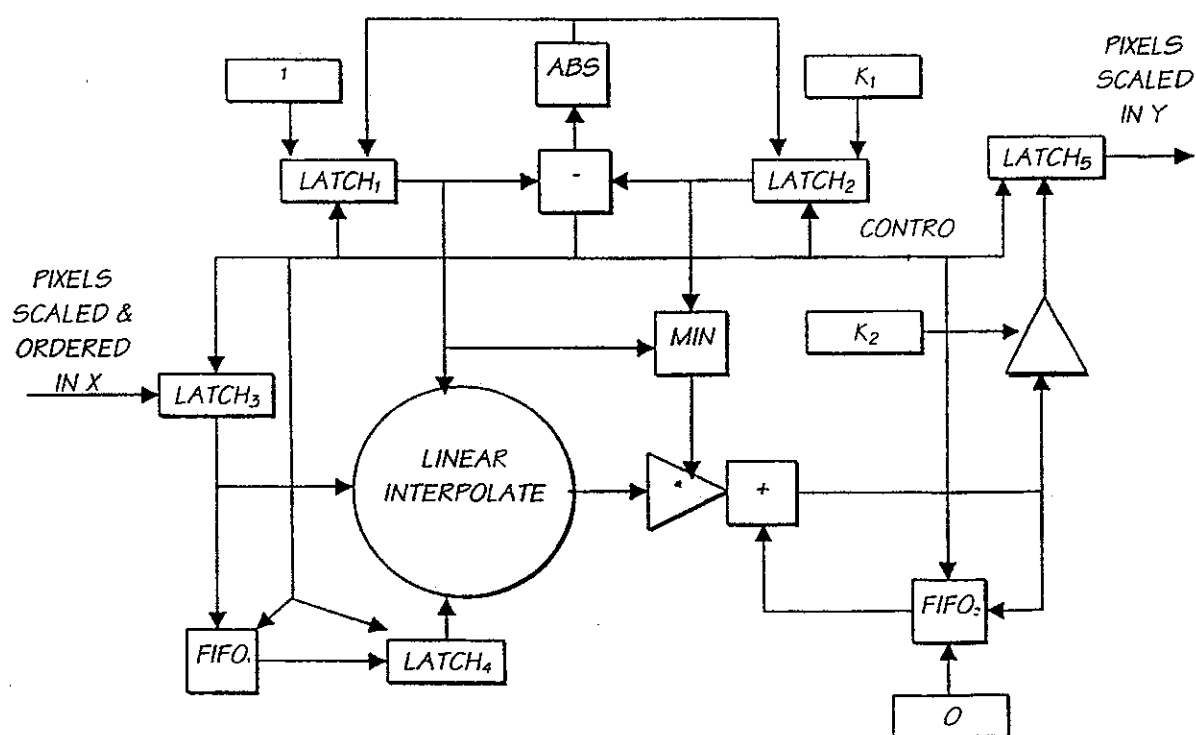
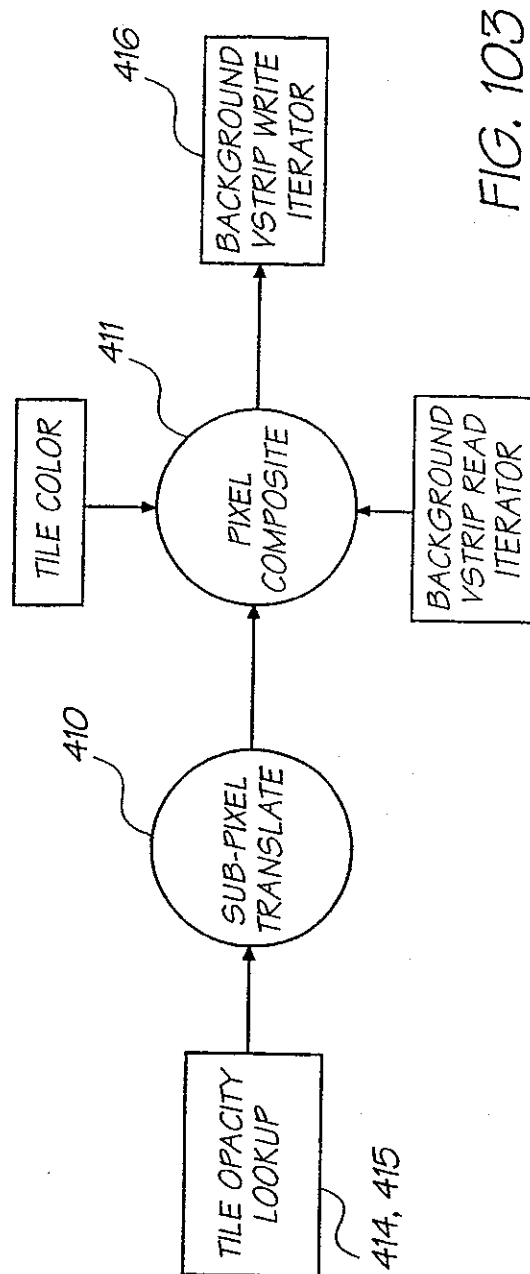
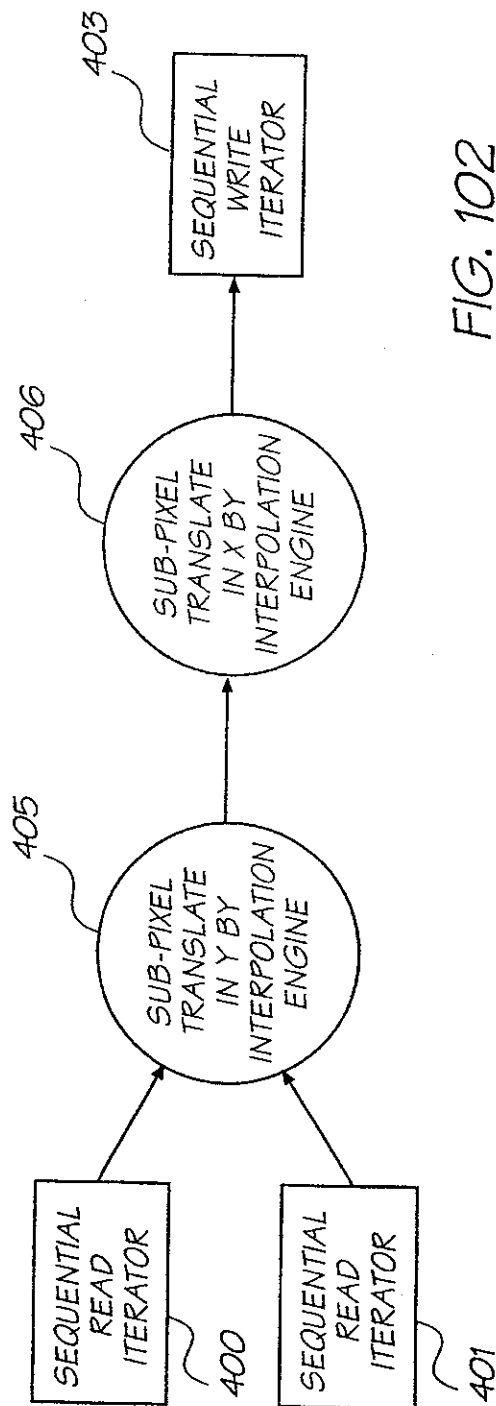
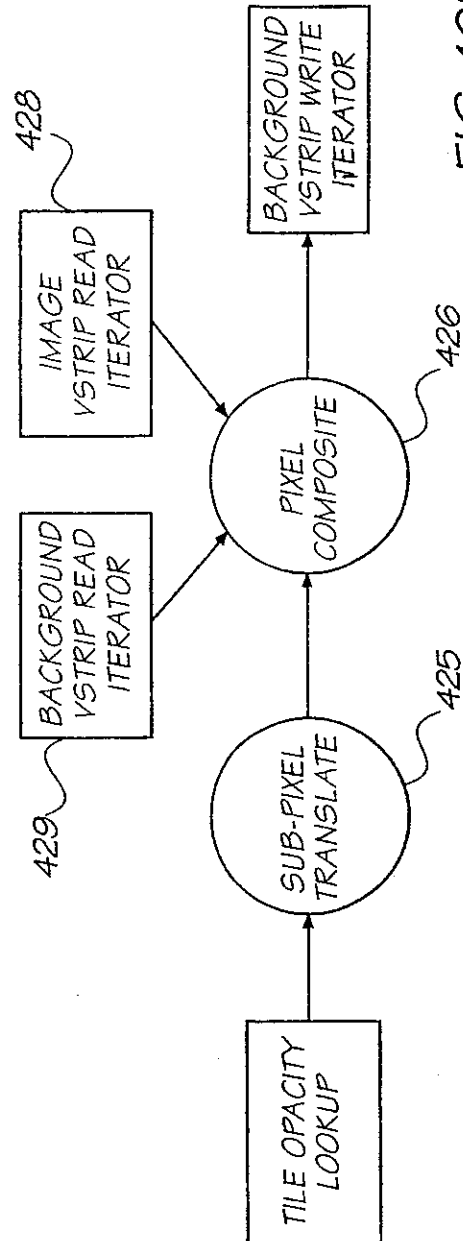
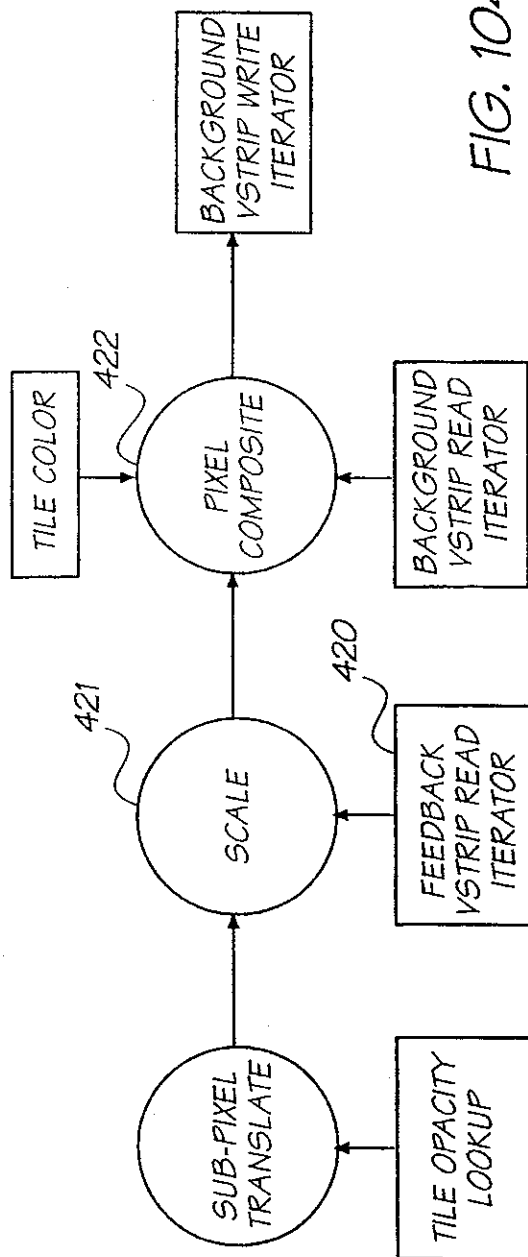


FIG. 100





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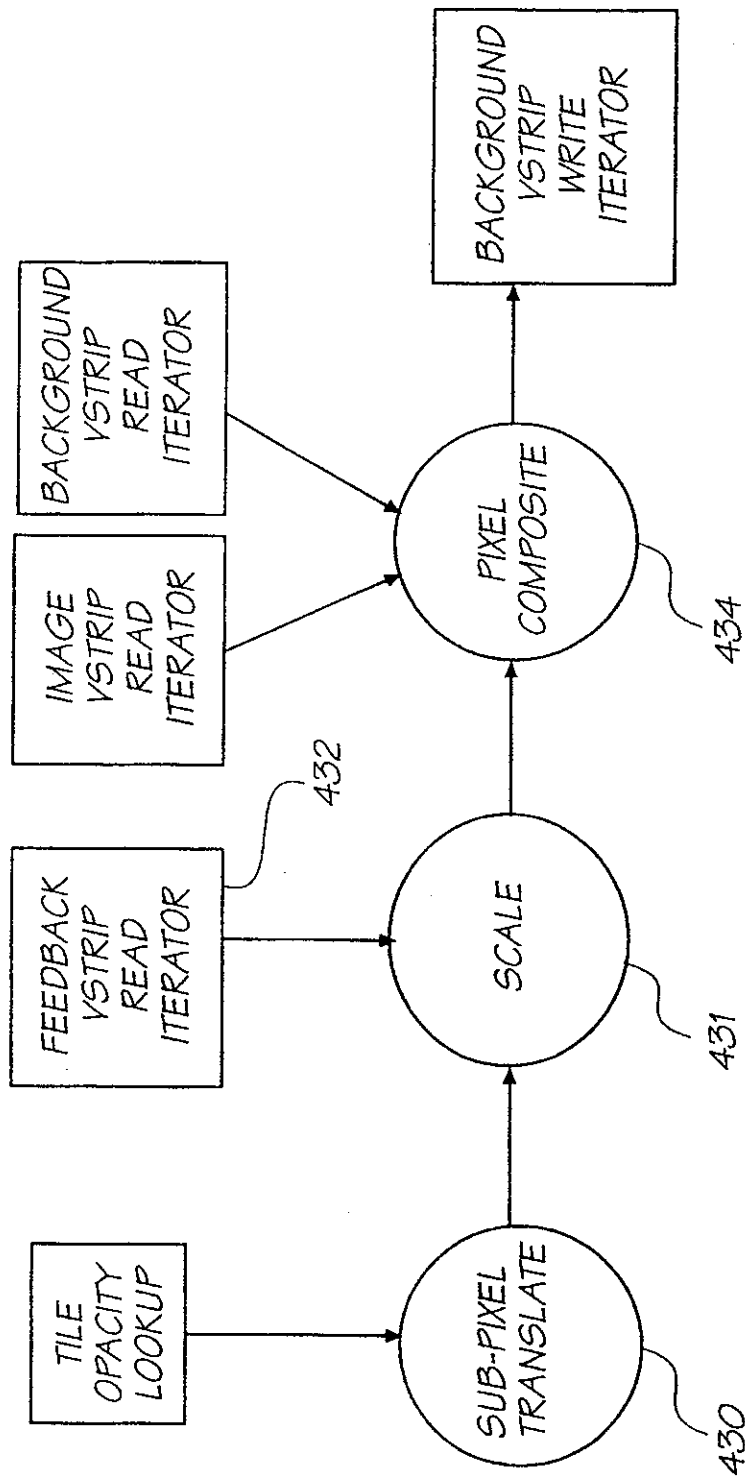


FIG. 106

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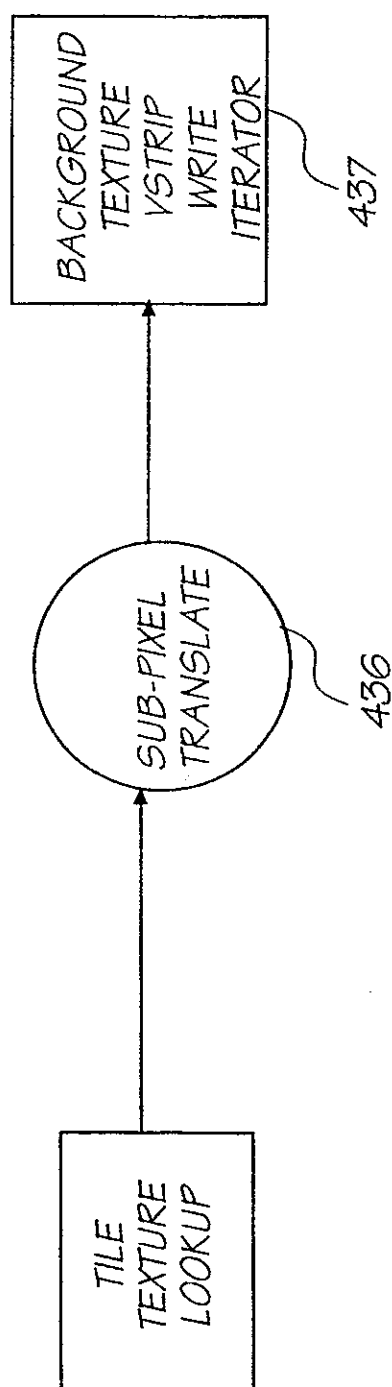


FIG. 107

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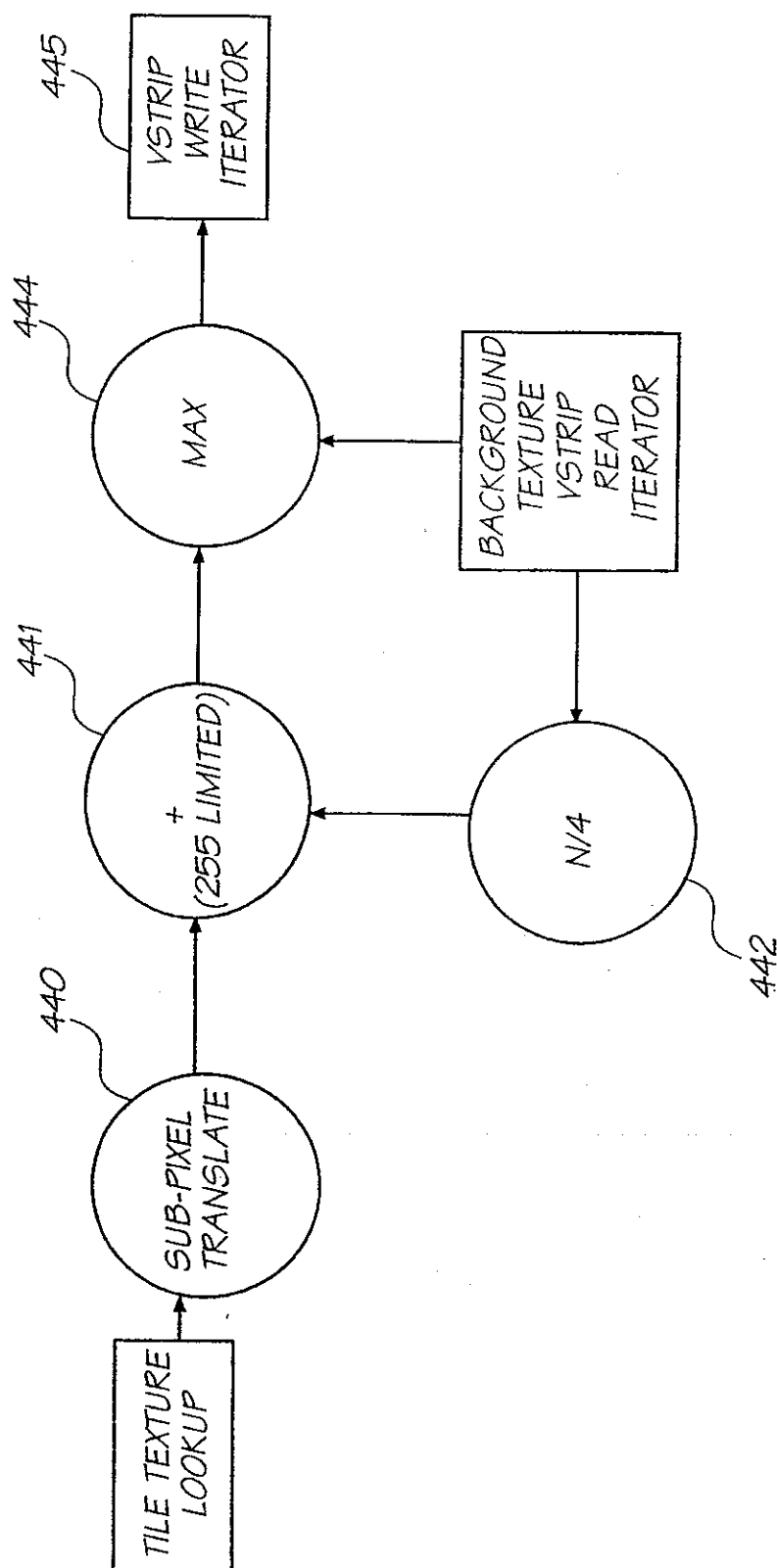


FIG. 108

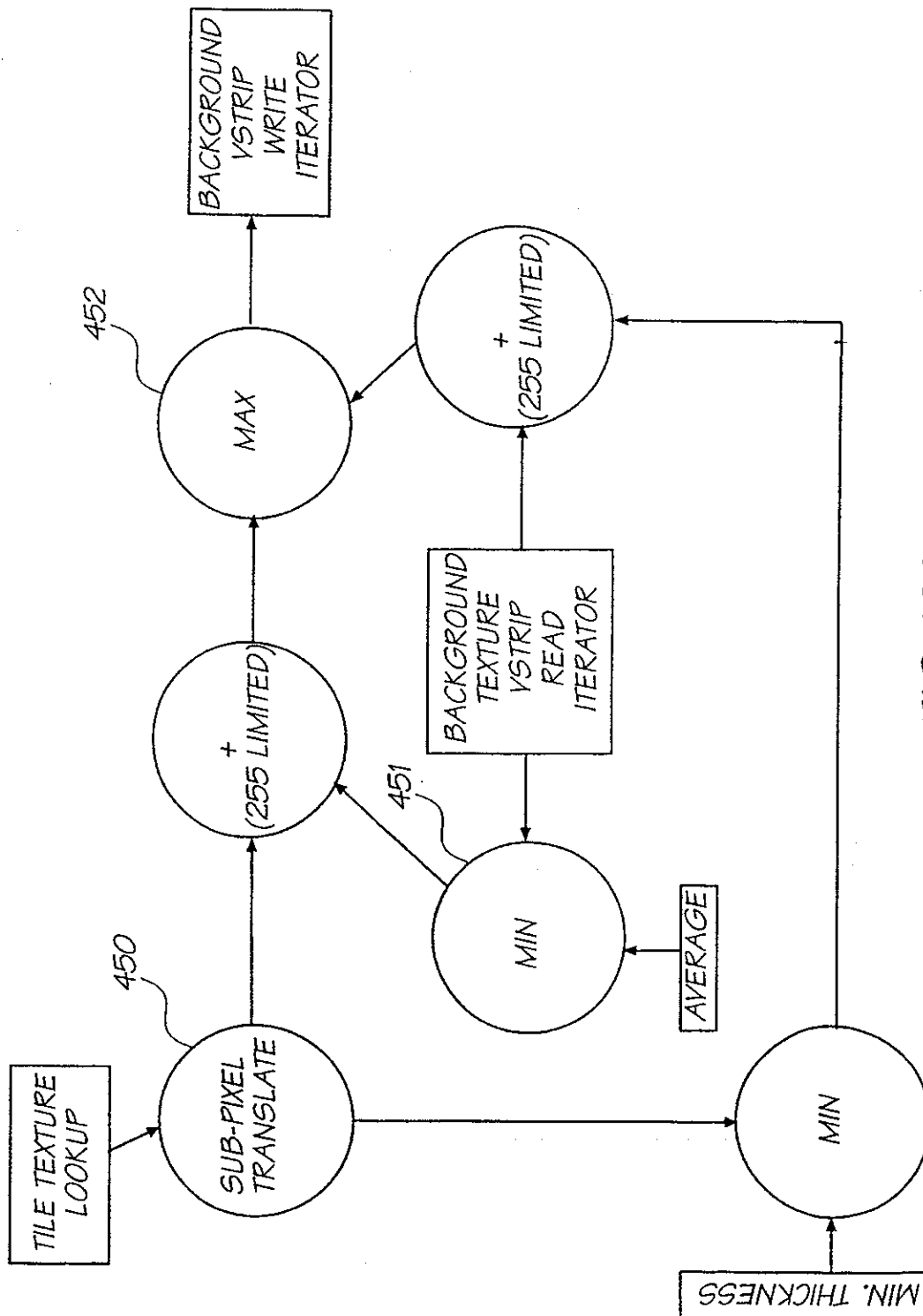


FIG. 109

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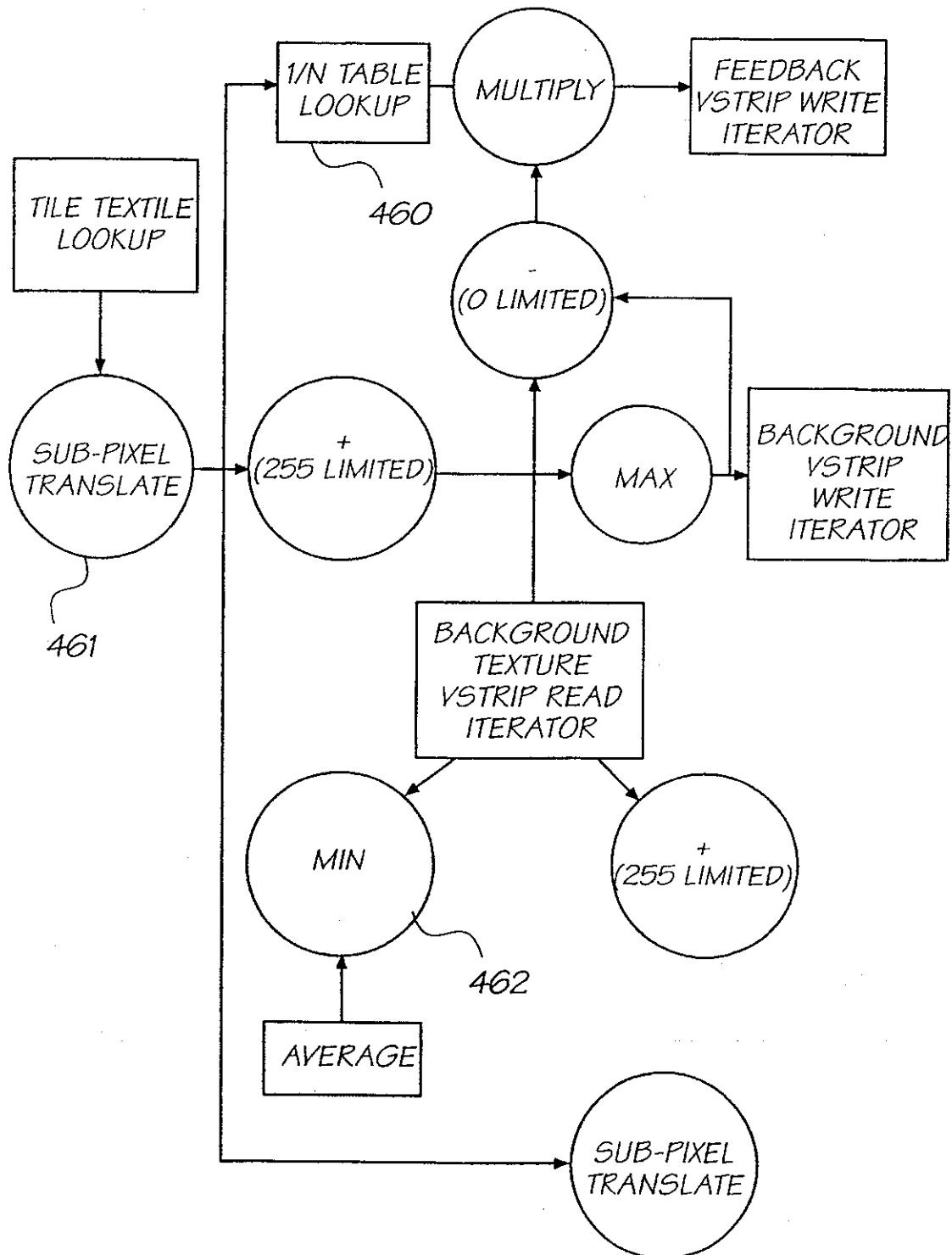


FIG. 110

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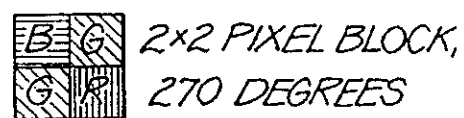
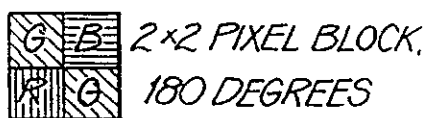
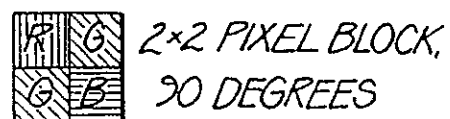
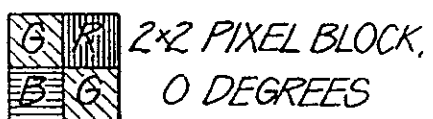
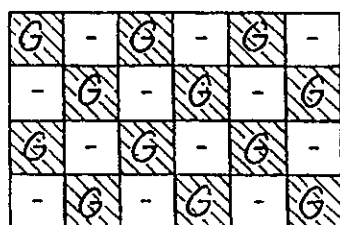


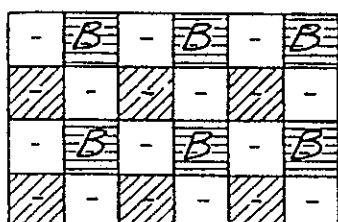
FIG. 111



LINEAR INTERPOLATED
PIXELS
 ACTUAL PIXELS (NOT
INTERPOLATED)

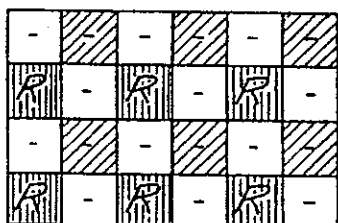
FIG. 112

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-  LINEAR INTERPOLATED PIXELS
-  BI-LINEAR INTERPOLATED PIXELS
-  ACTUAL PIXELS (NOT INTERPOLATED)

FIG. 113



-  LINEAR INTERPOLATED PIXELS
-  BI-LINEAR INTERPOLATED PIXELS
-  ACTUAL PIXELS (NOT INTERPOLATED)

FIG. 114

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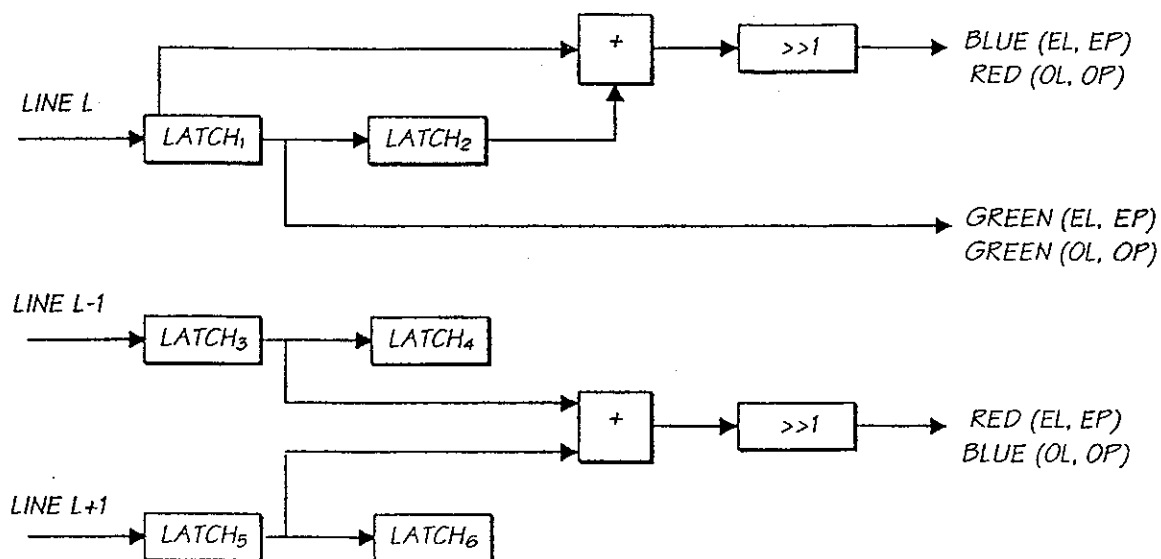


FIG. 115

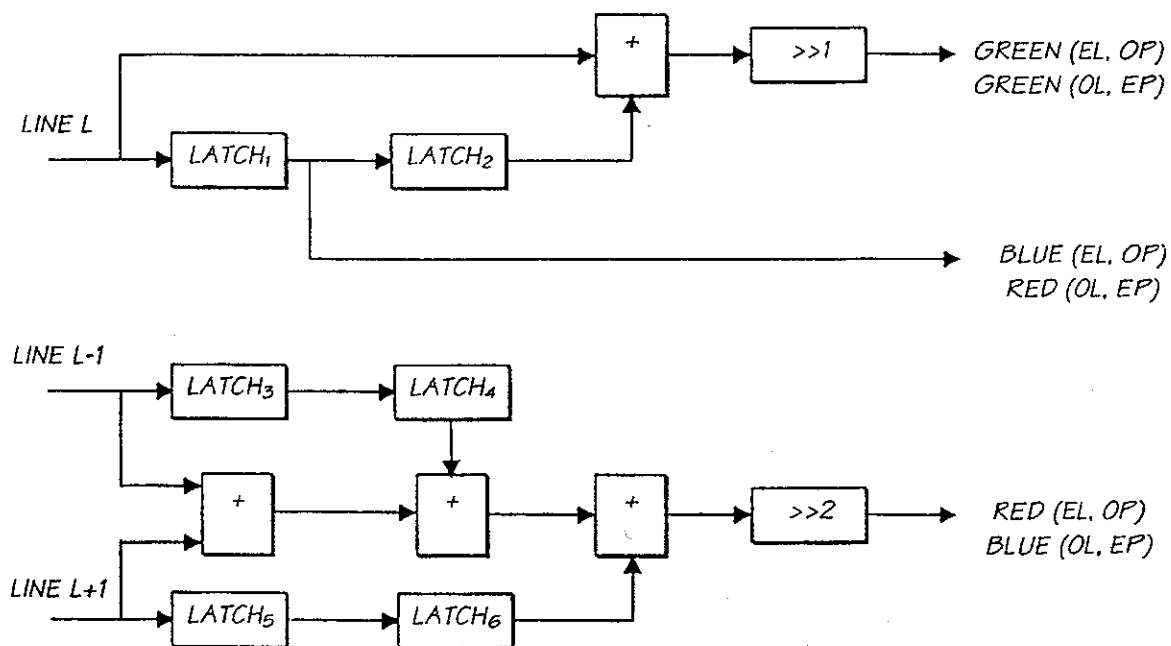


FIG. 116

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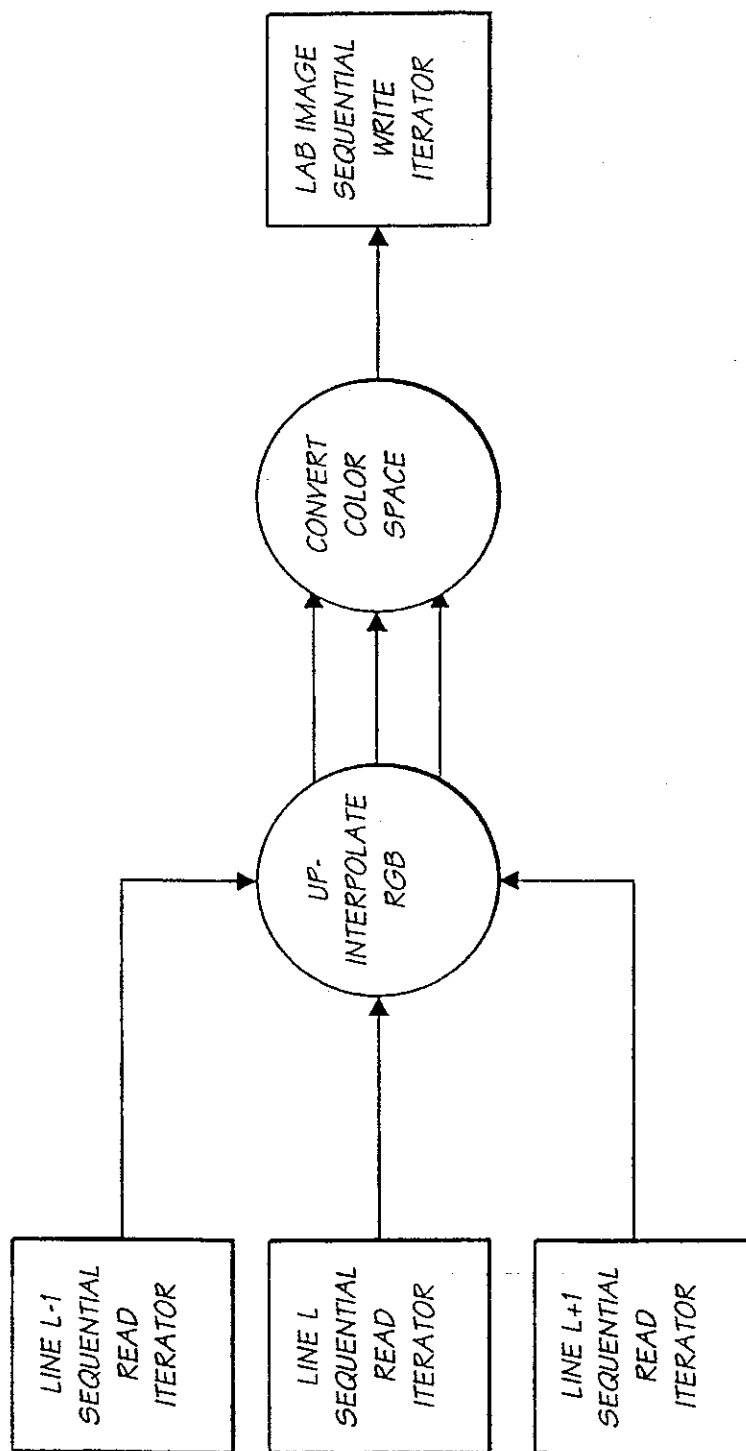


FIG. 117

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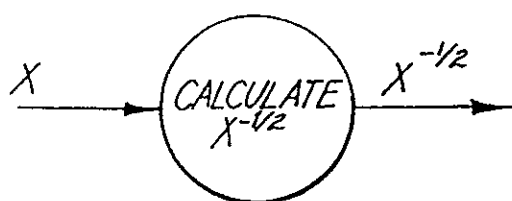


FIG. 118

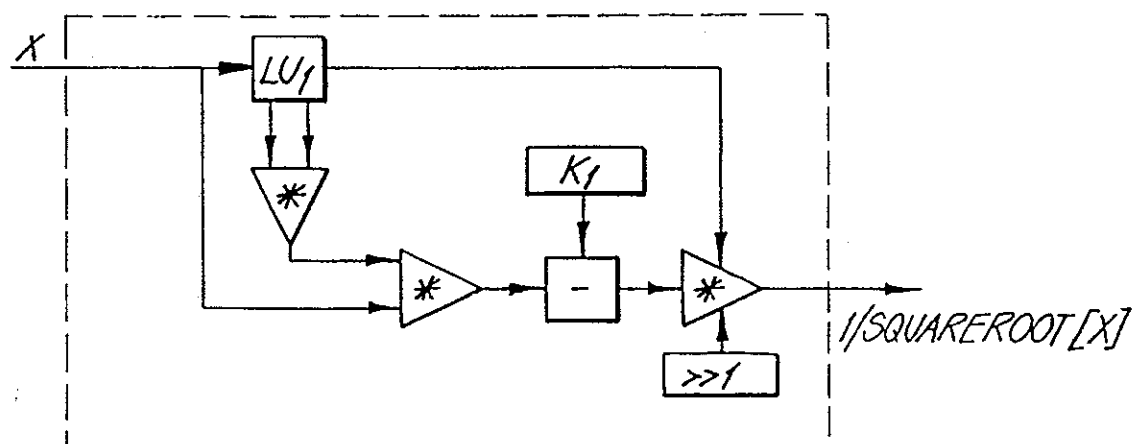


FIG. 119

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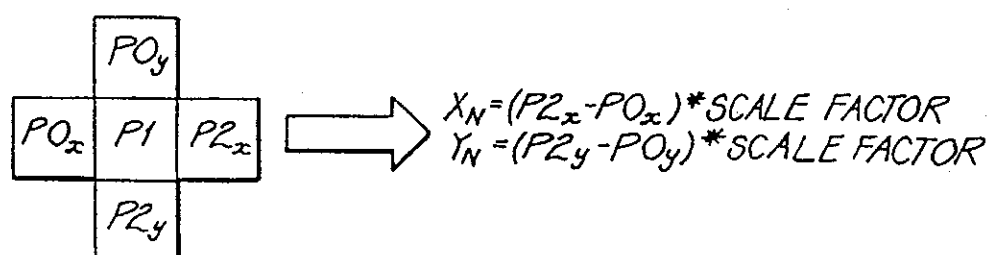


FIG. 120

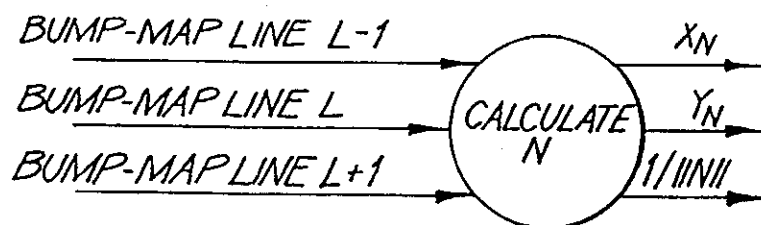


FIG. 121

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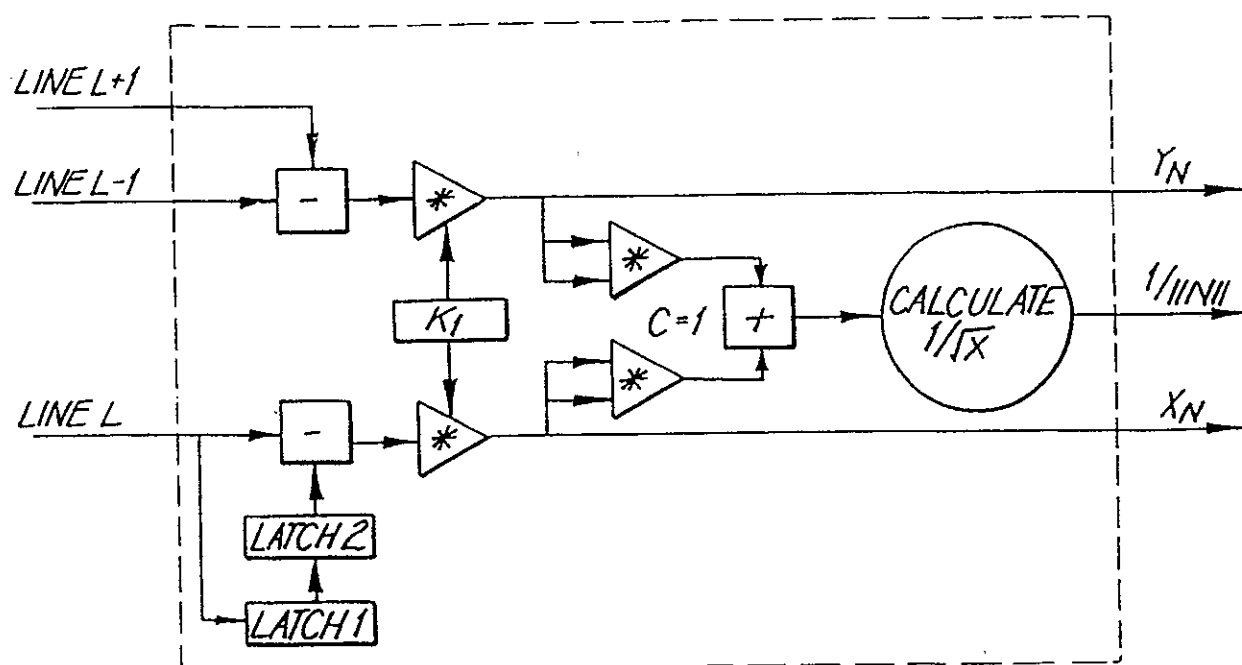


FIG. 122

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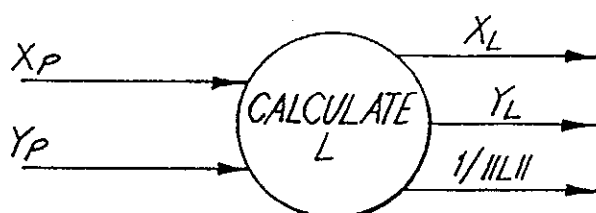


FIG. 123

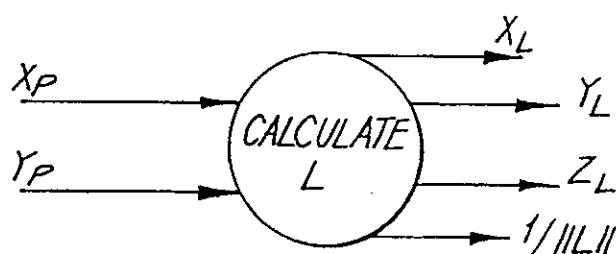


FIG. 124

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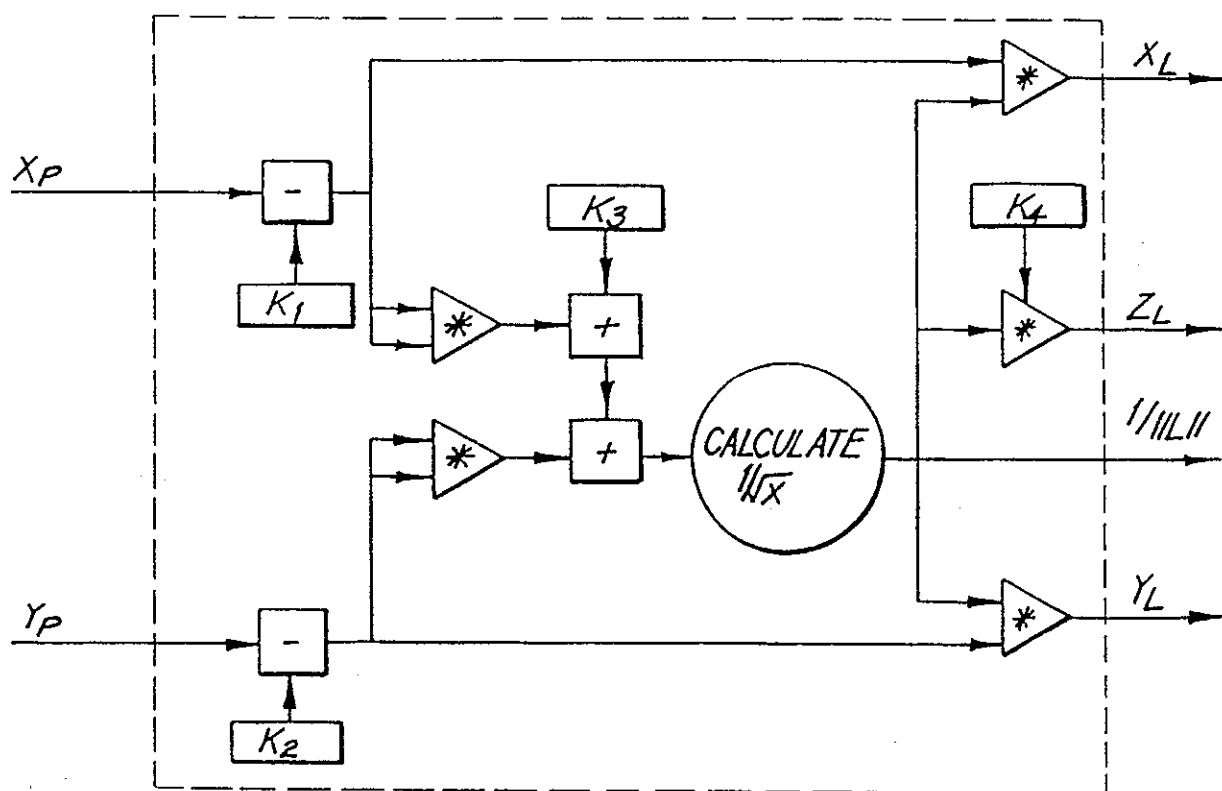


FIG. 125

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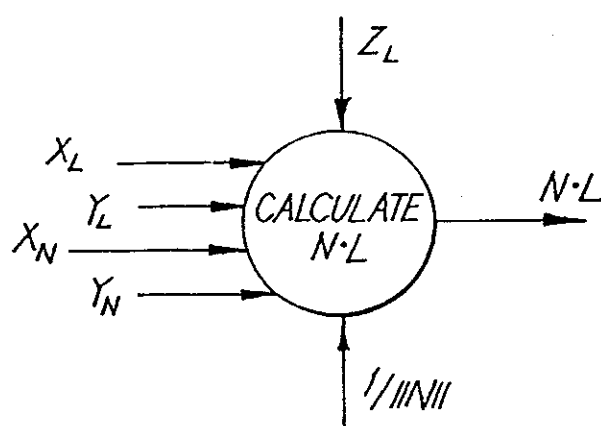


FIG. 126

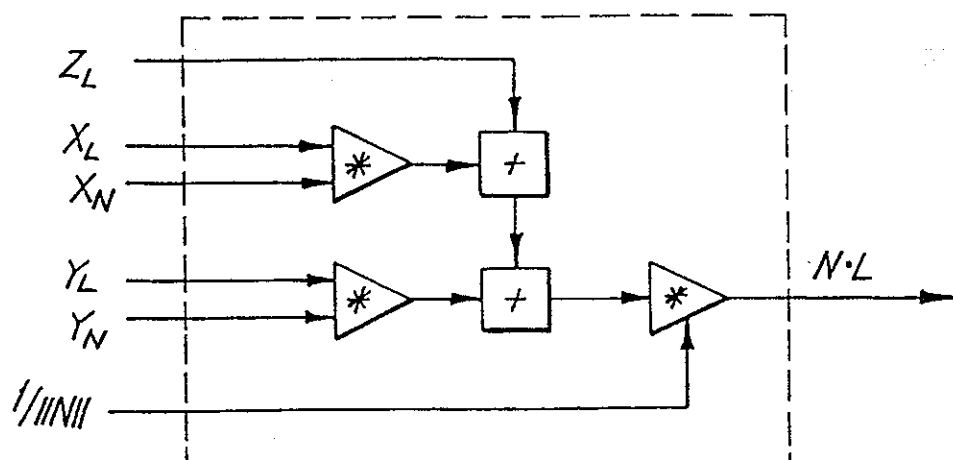


FIG. 127

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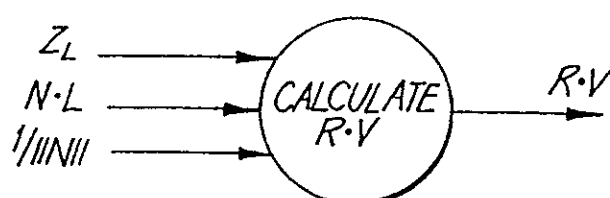


FIG. 128

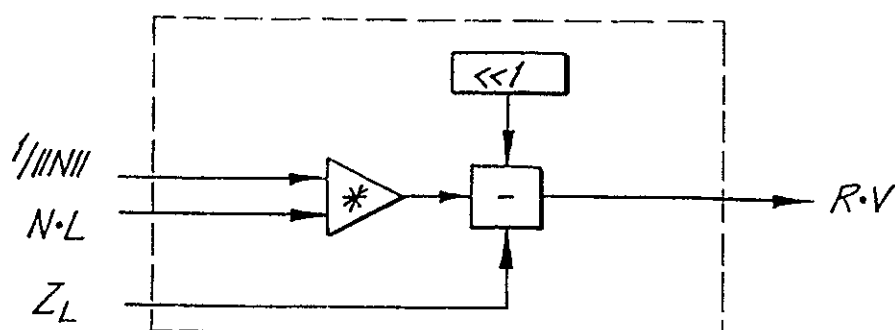


FIG. 129

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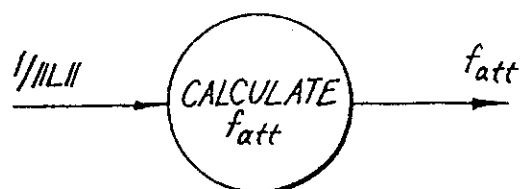


FIG. 130

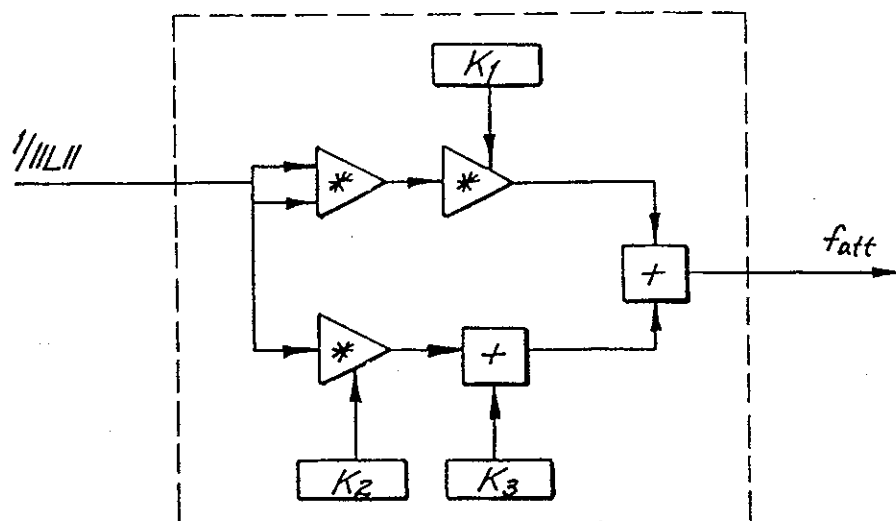


FIG. 131

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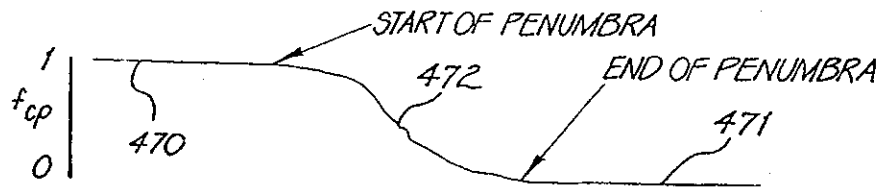


FIG. 132

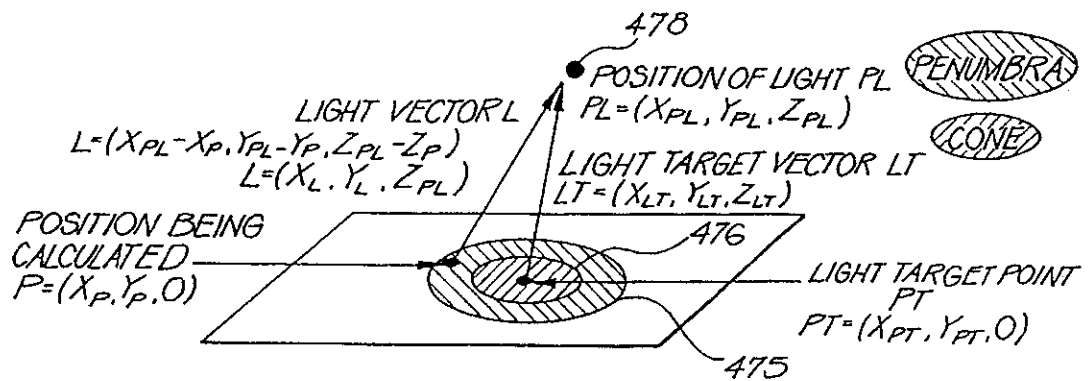


FIG. 133

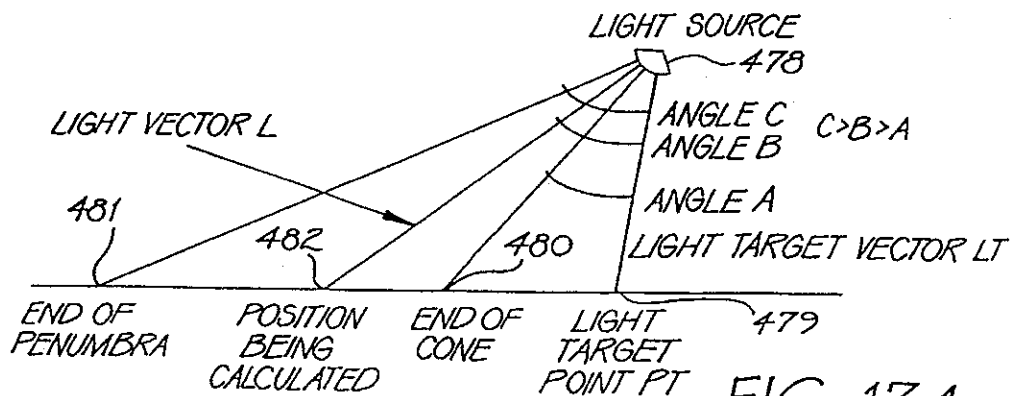


FIG. 134

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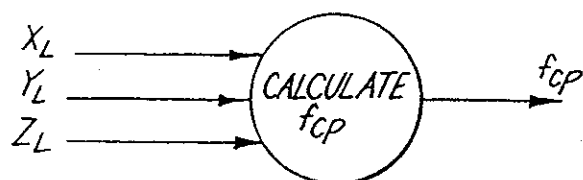


FIG. 135

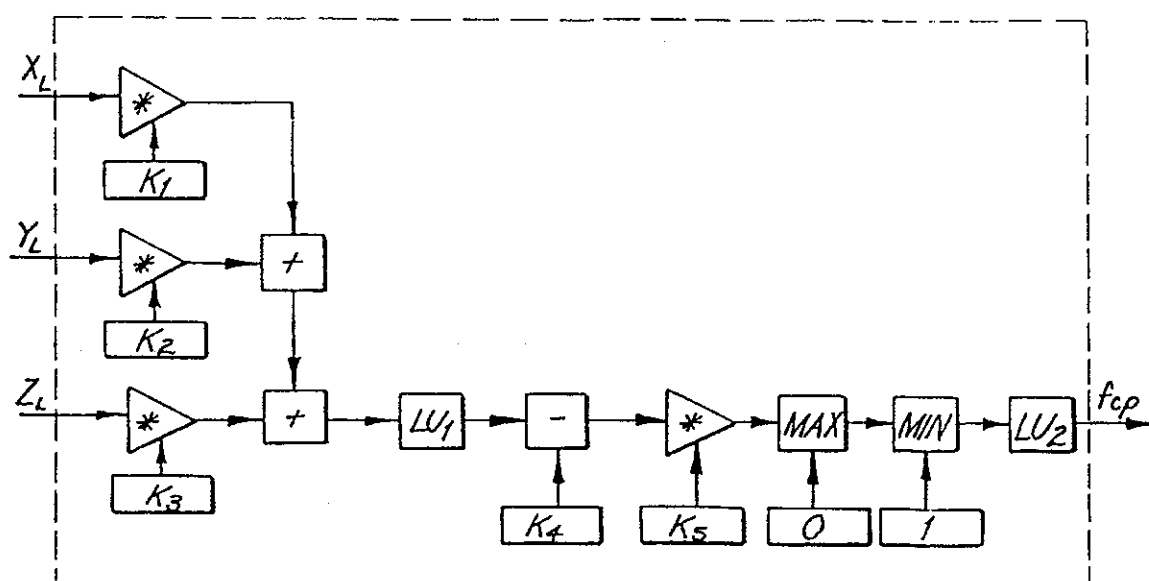


FIG. 136

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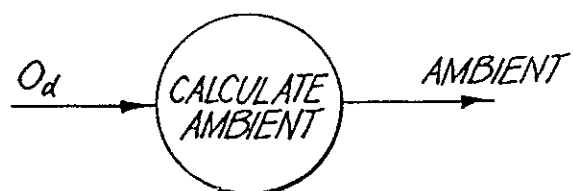


FIG. 137

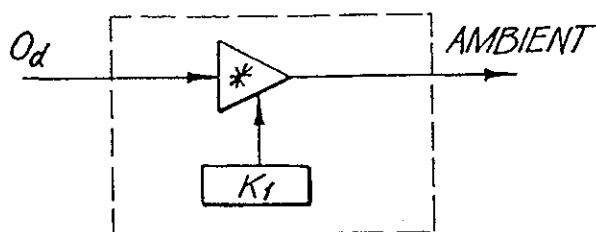


FIG. 138

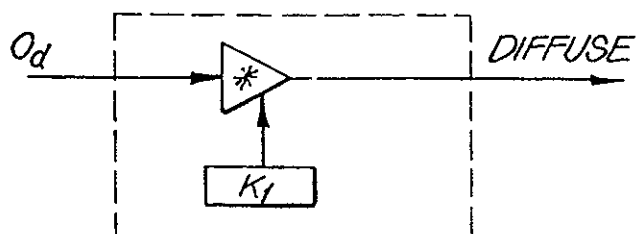


FIG. 139

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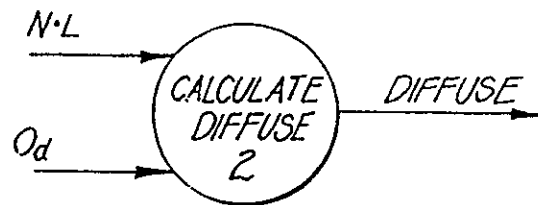


FIG. 140

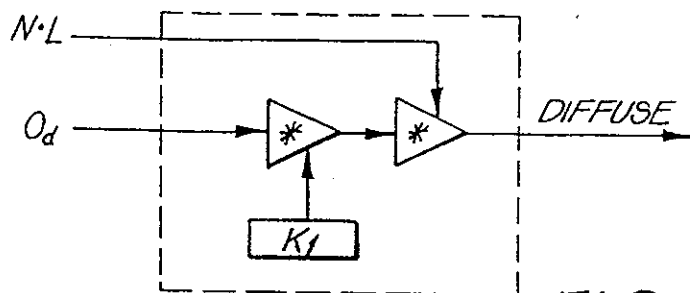


FIG. 141

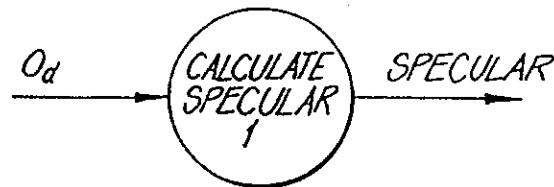


FIG. 142

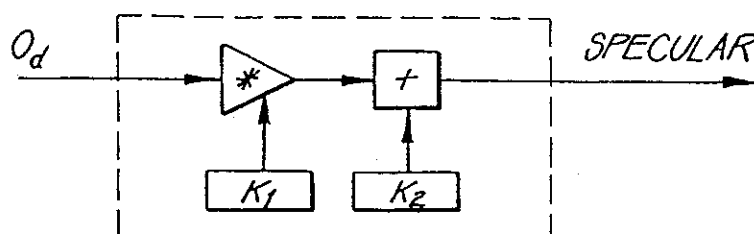


FIG. 143

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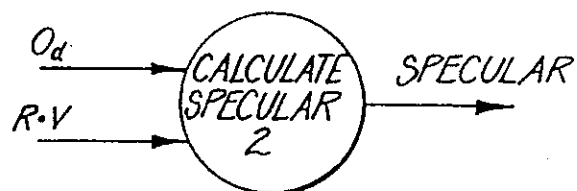


FIG. 144

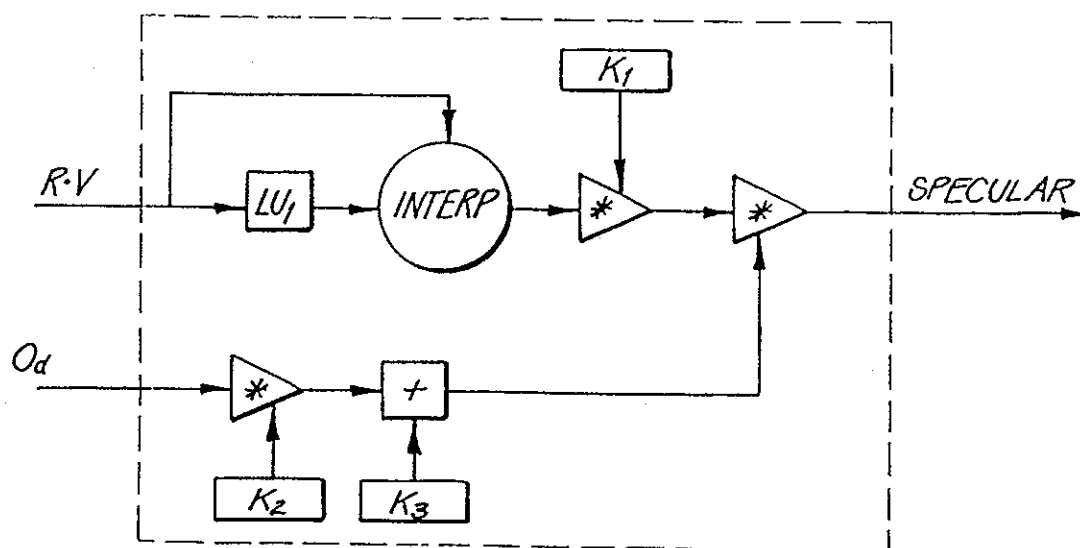


FIG. 145

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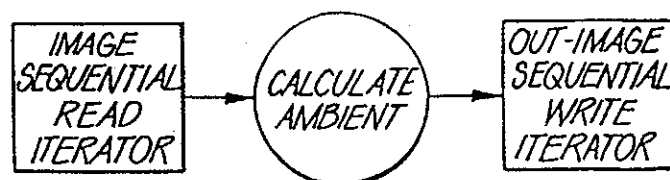


FIG. 146

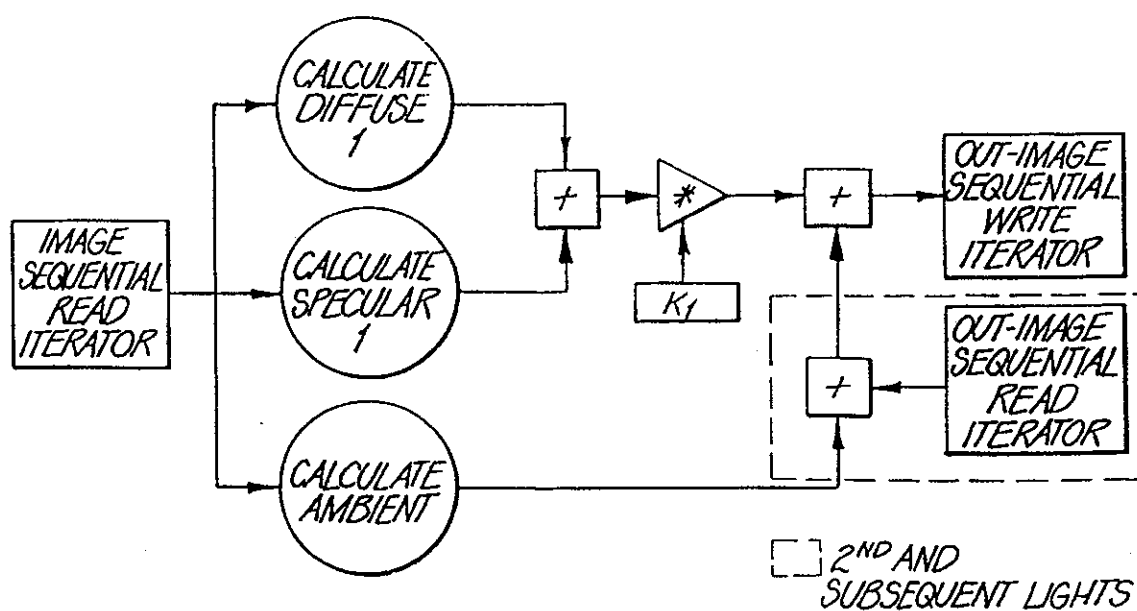


FIG. 147

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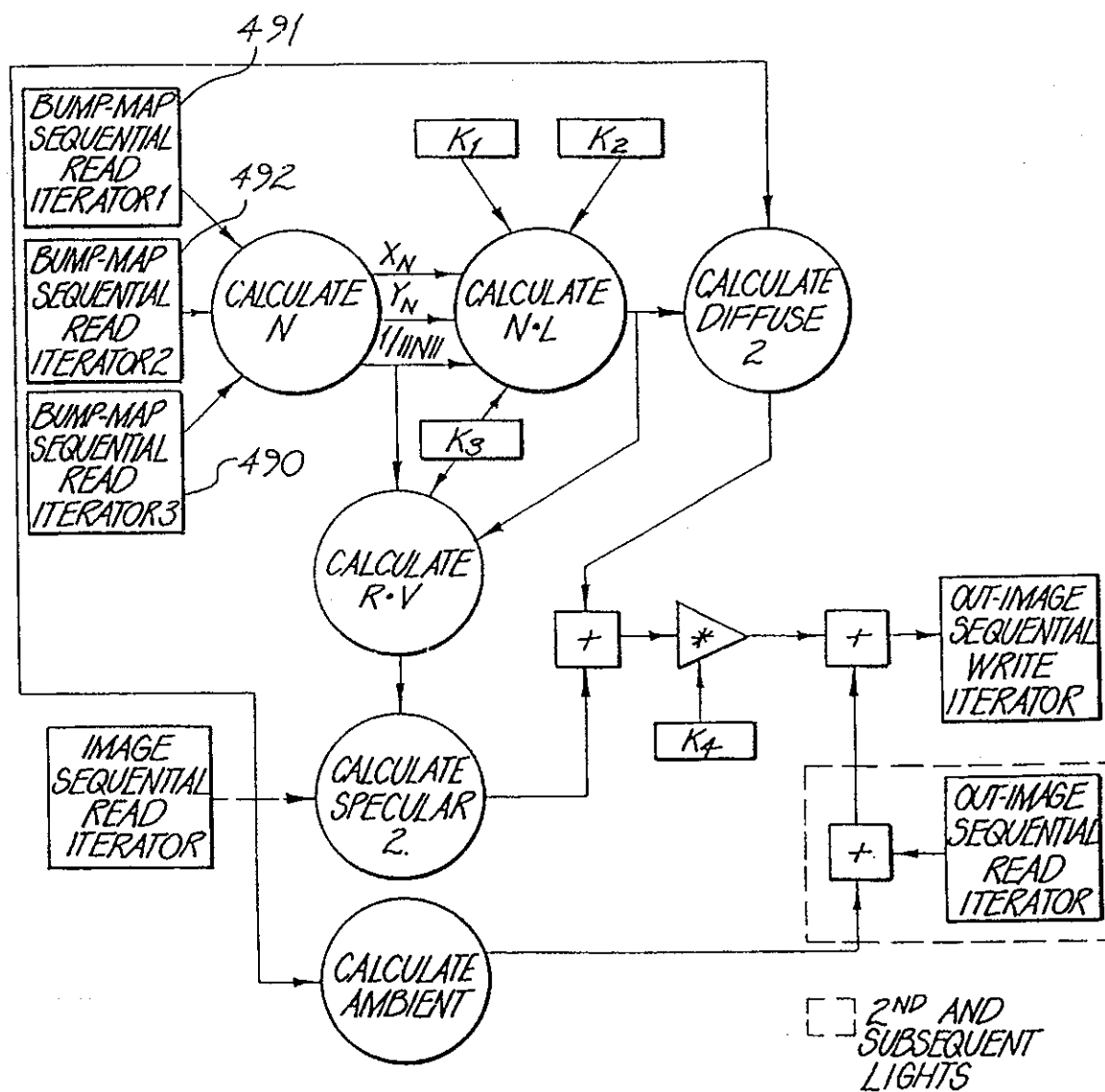


FIG. 148

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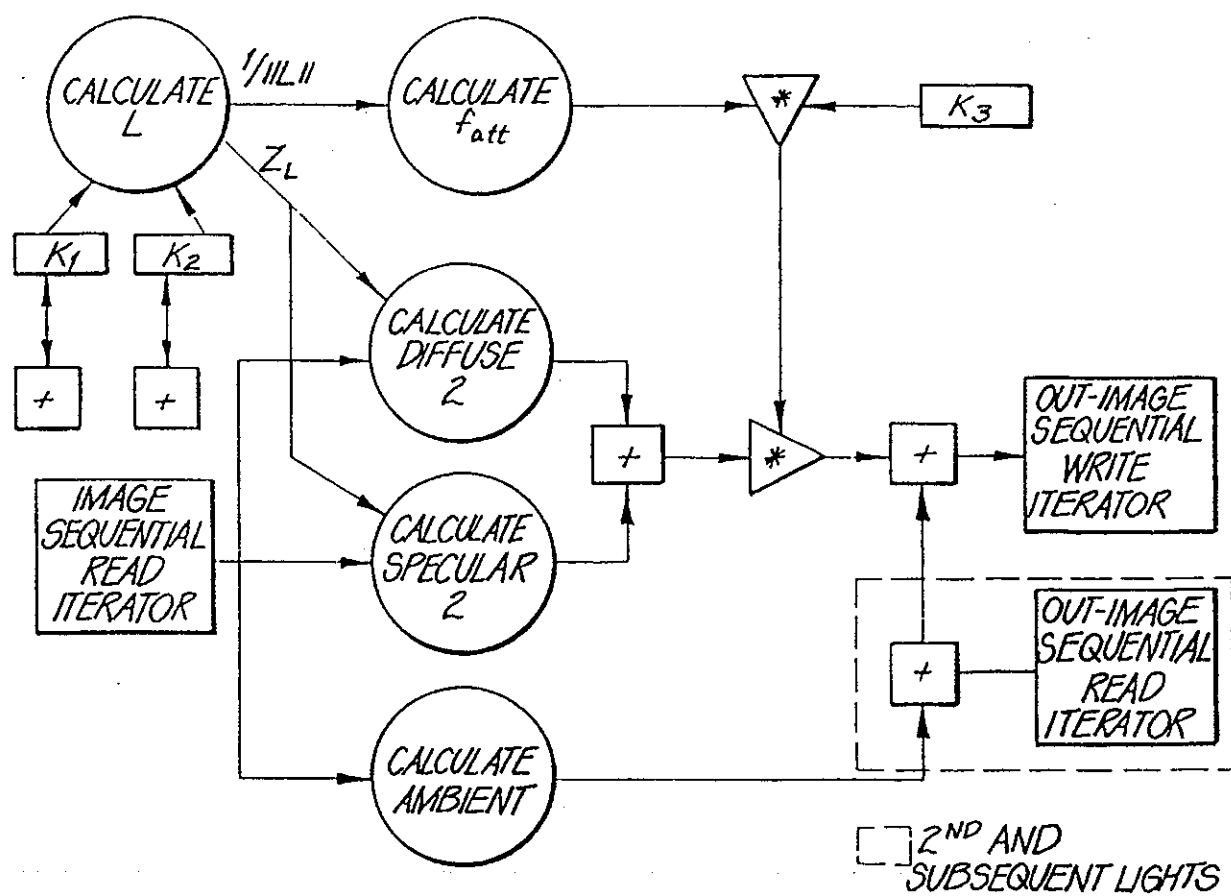


FIG. 149

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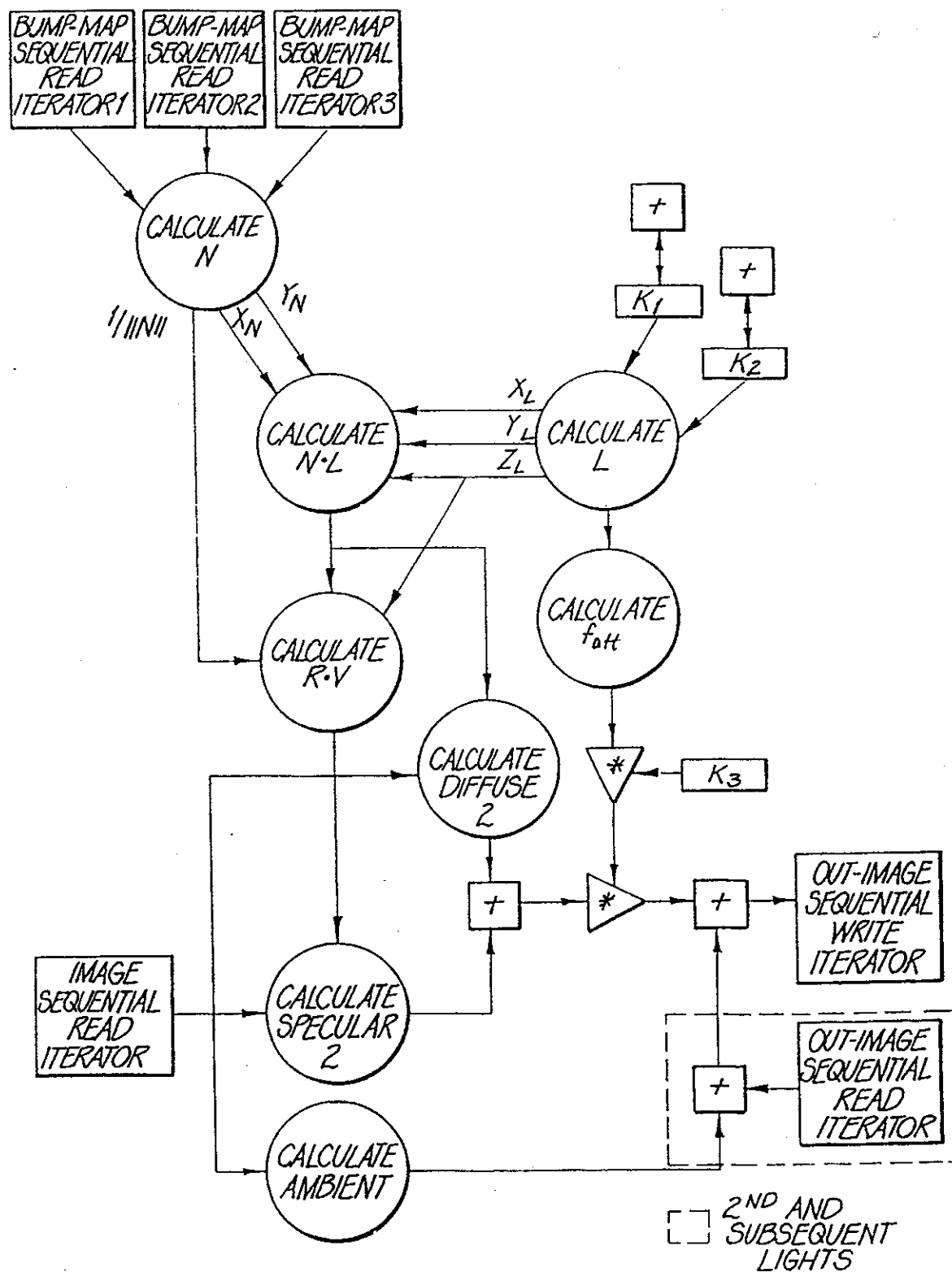


FIG. 150

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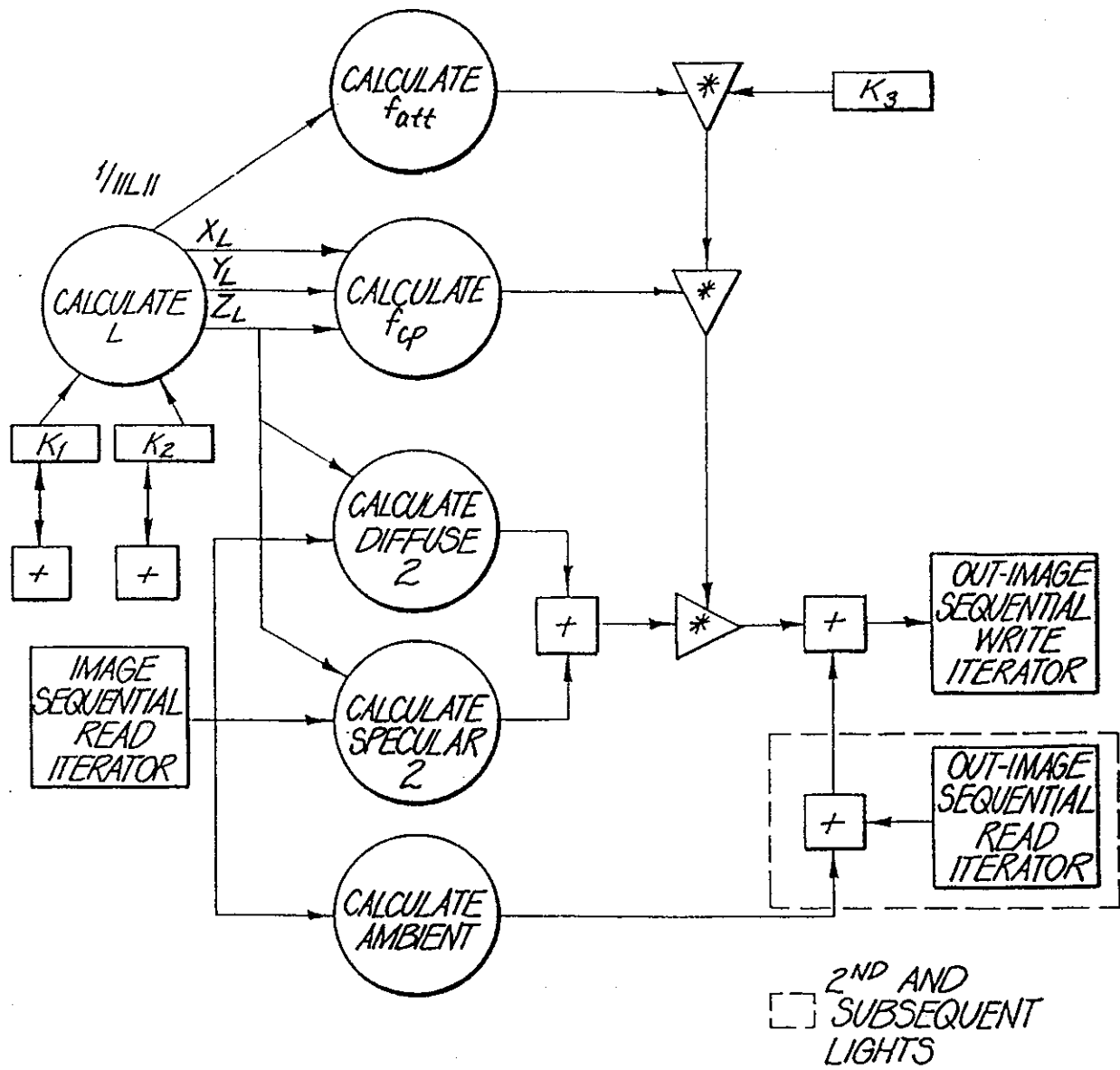


FIG. 151

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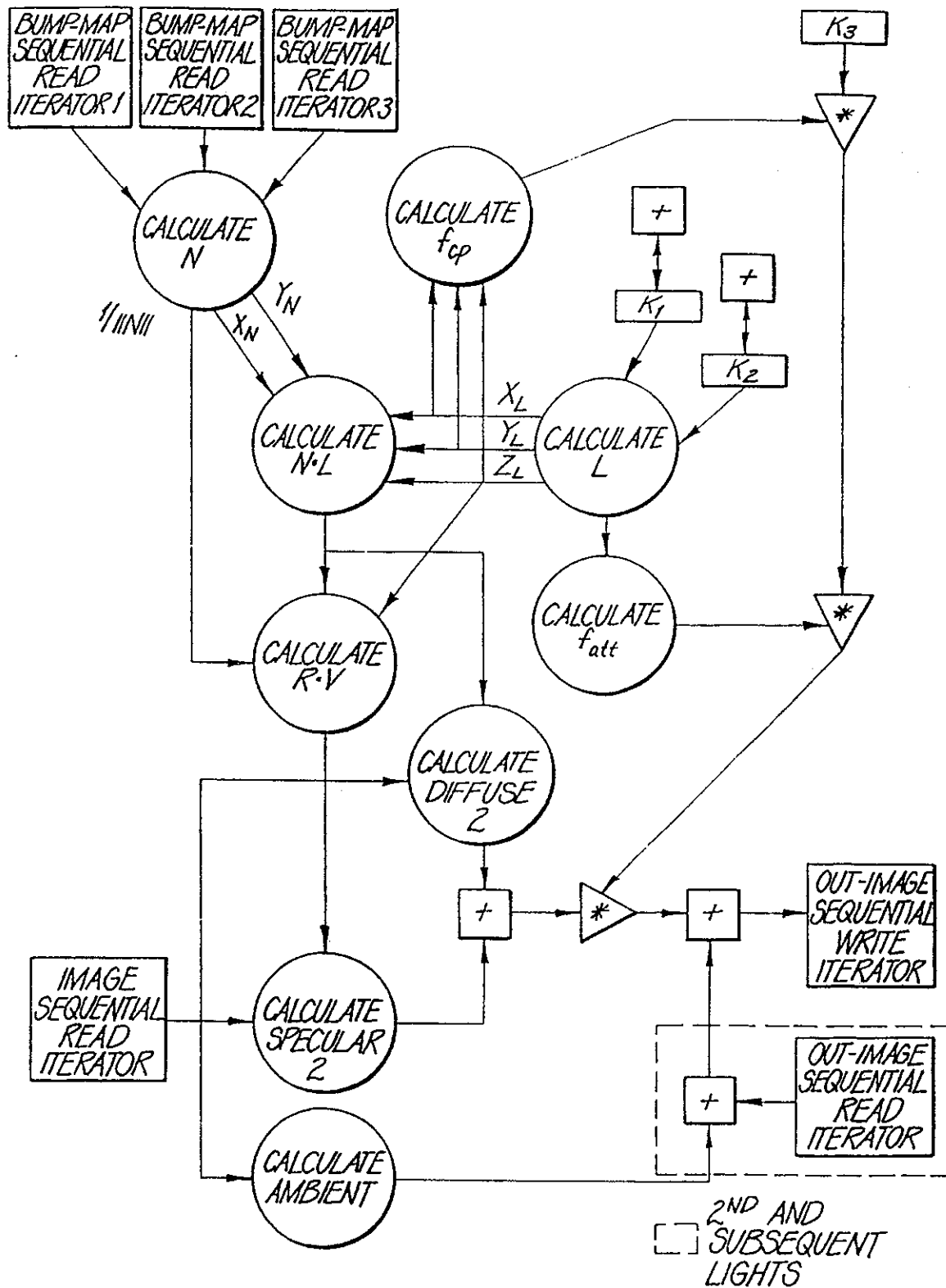
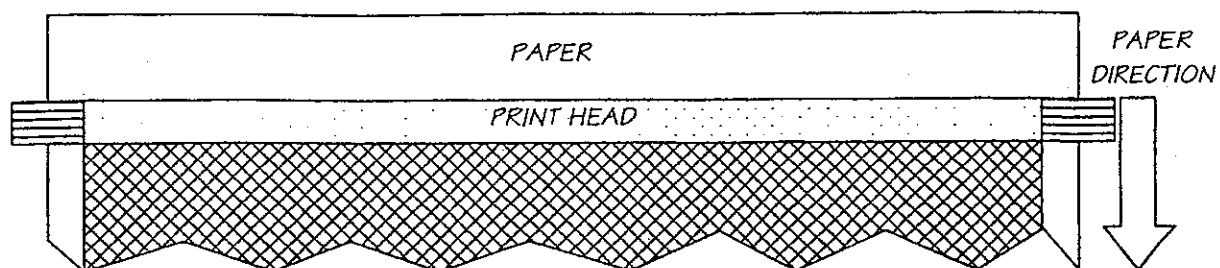


FIG. 152

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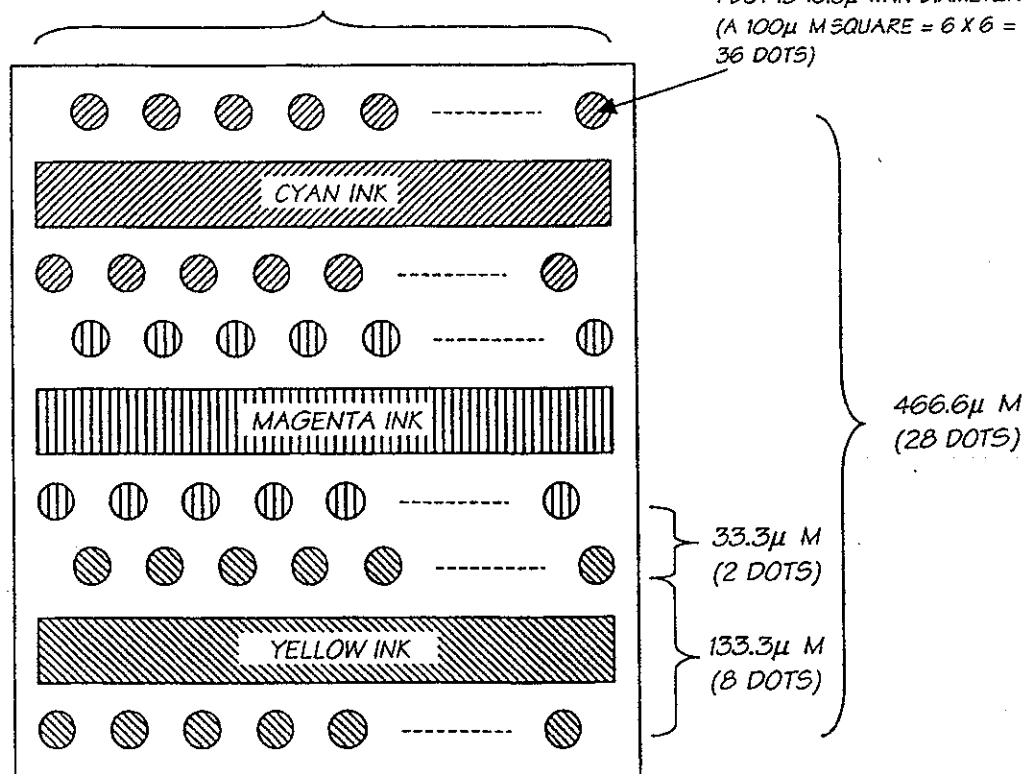


8 PRINT HEAD SEGMENTS IN PRINT HEAD

SEGMENT 0	SEGMENT 1	SEGMENT 2	SEGMENT 3	SEGMENT 4	SEGMENT 5	SEGMENT 6	SEGMENT 7
-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------

1250 μ M
(375 DOTS PER SEGMENT ROW, OR 750 DOTS PER SEGMENT)

1 DOT IS 16.6 μ M IN DIAMETER
(A 100 μ M SQUARE = 6 X 6 = 36 DOTS)



EACH SEGMENT CONTAINS 6 ROWS OF DOTS: ODD AND EVEN

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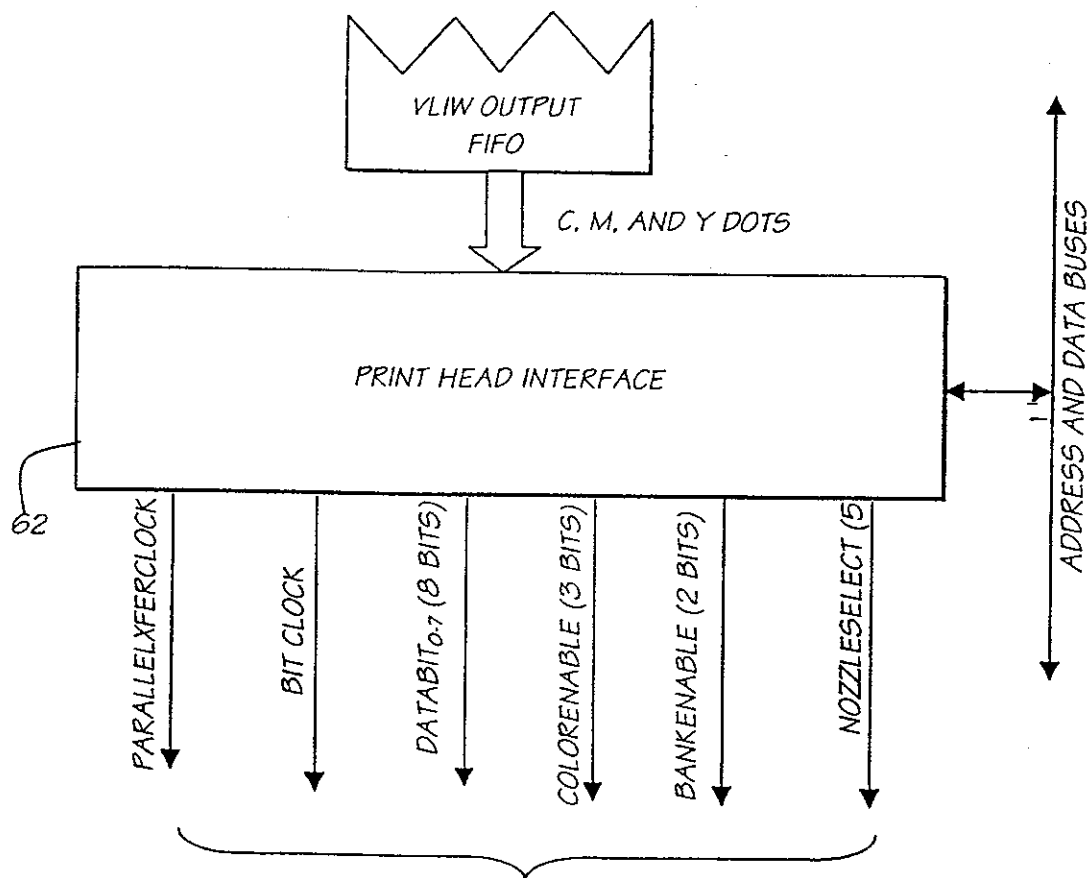


FIG. 154

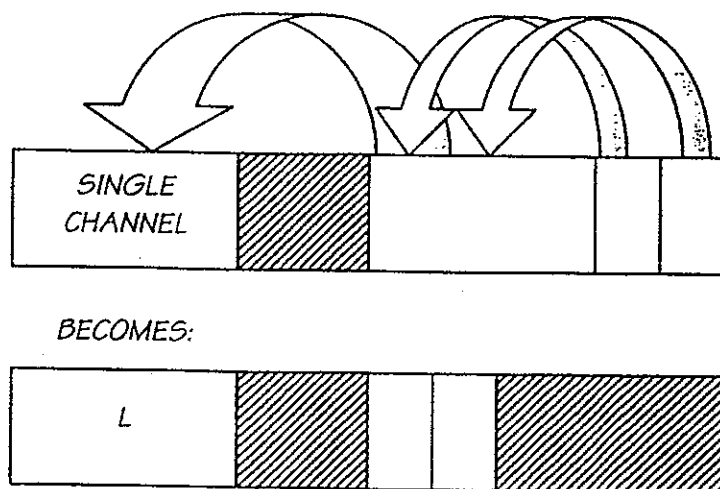


FIG. 155

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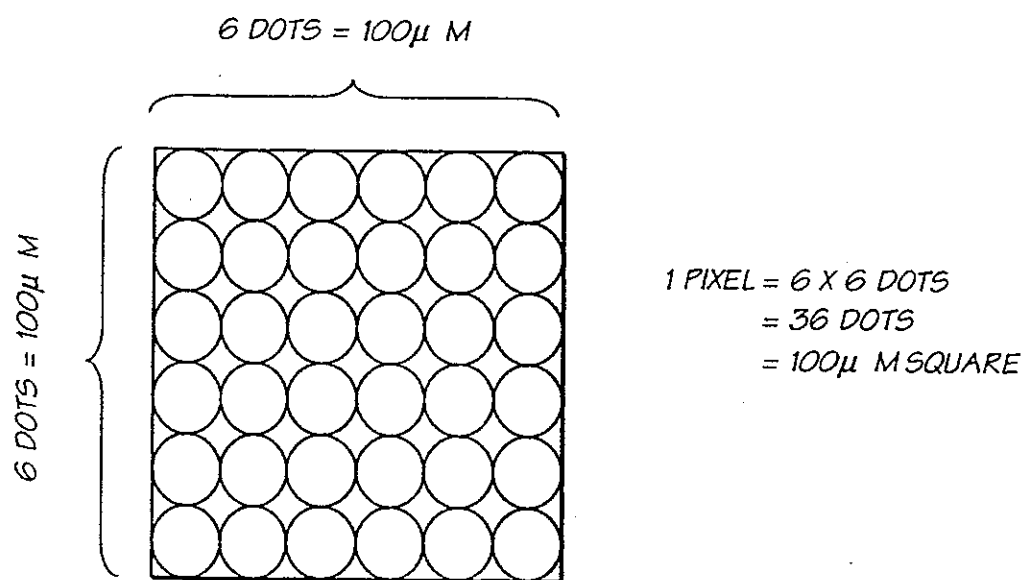


FIG. 156

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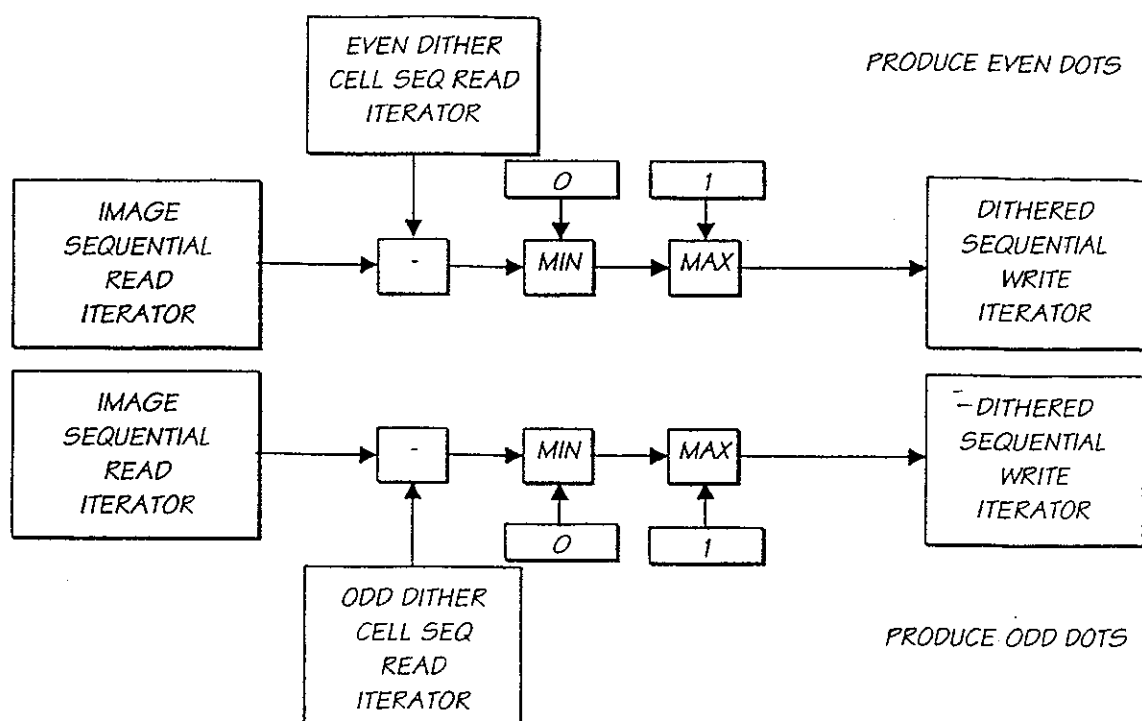
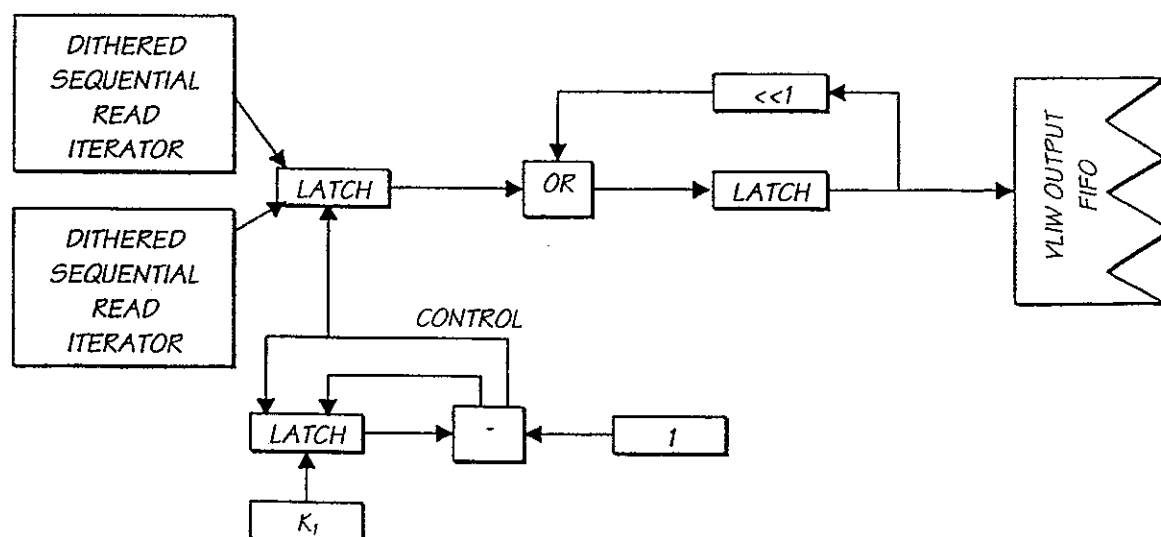
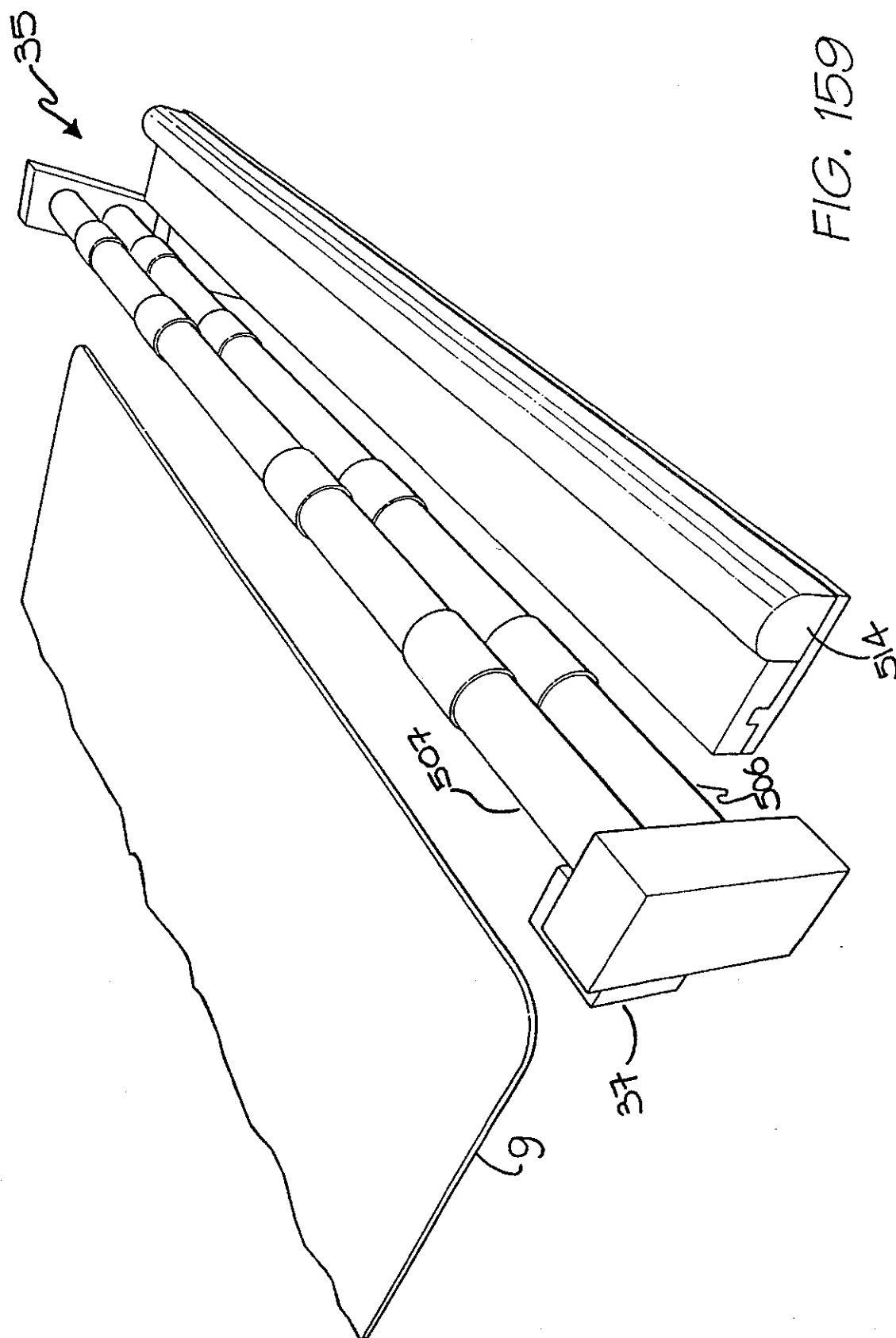


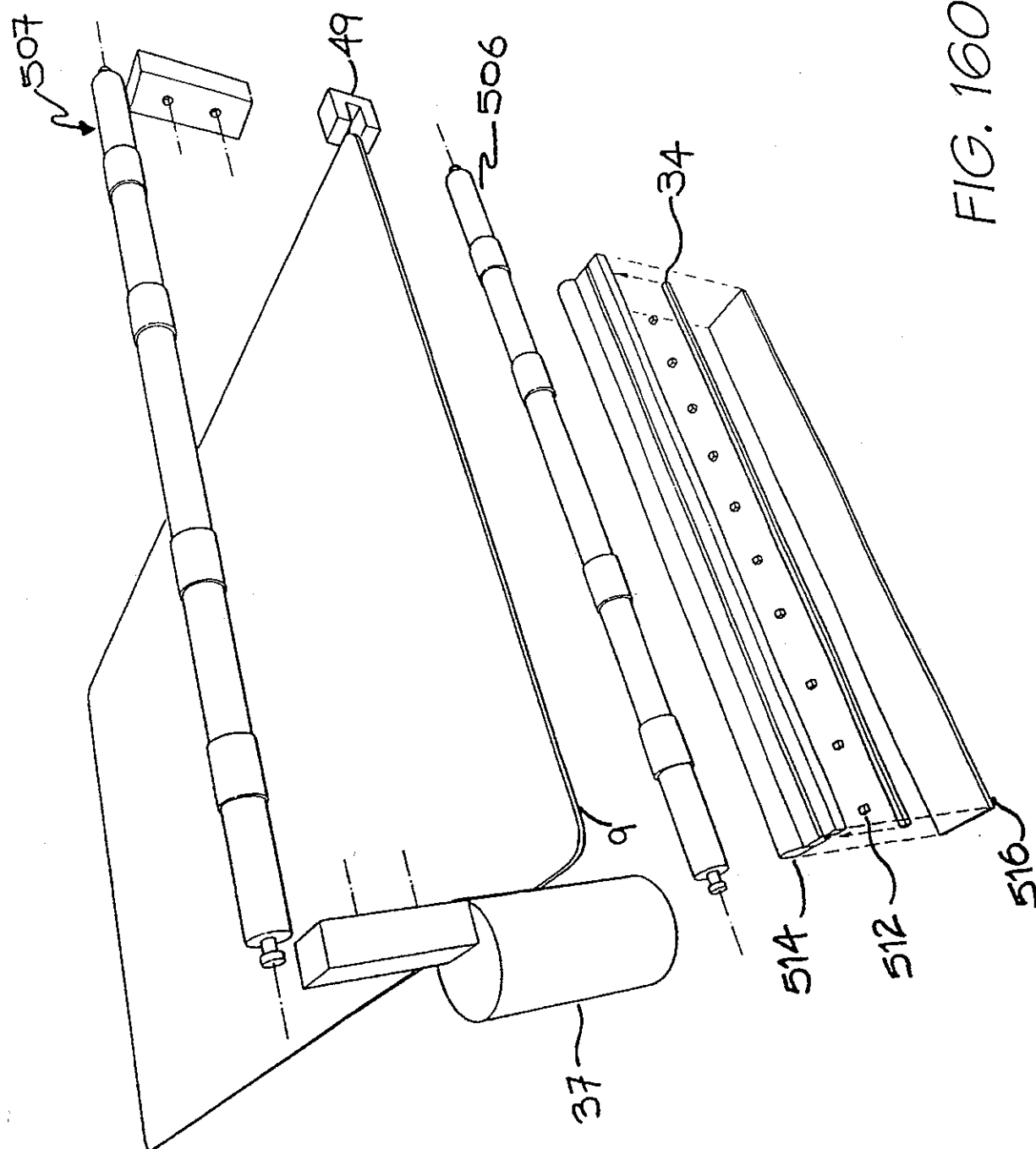
FIG. 157



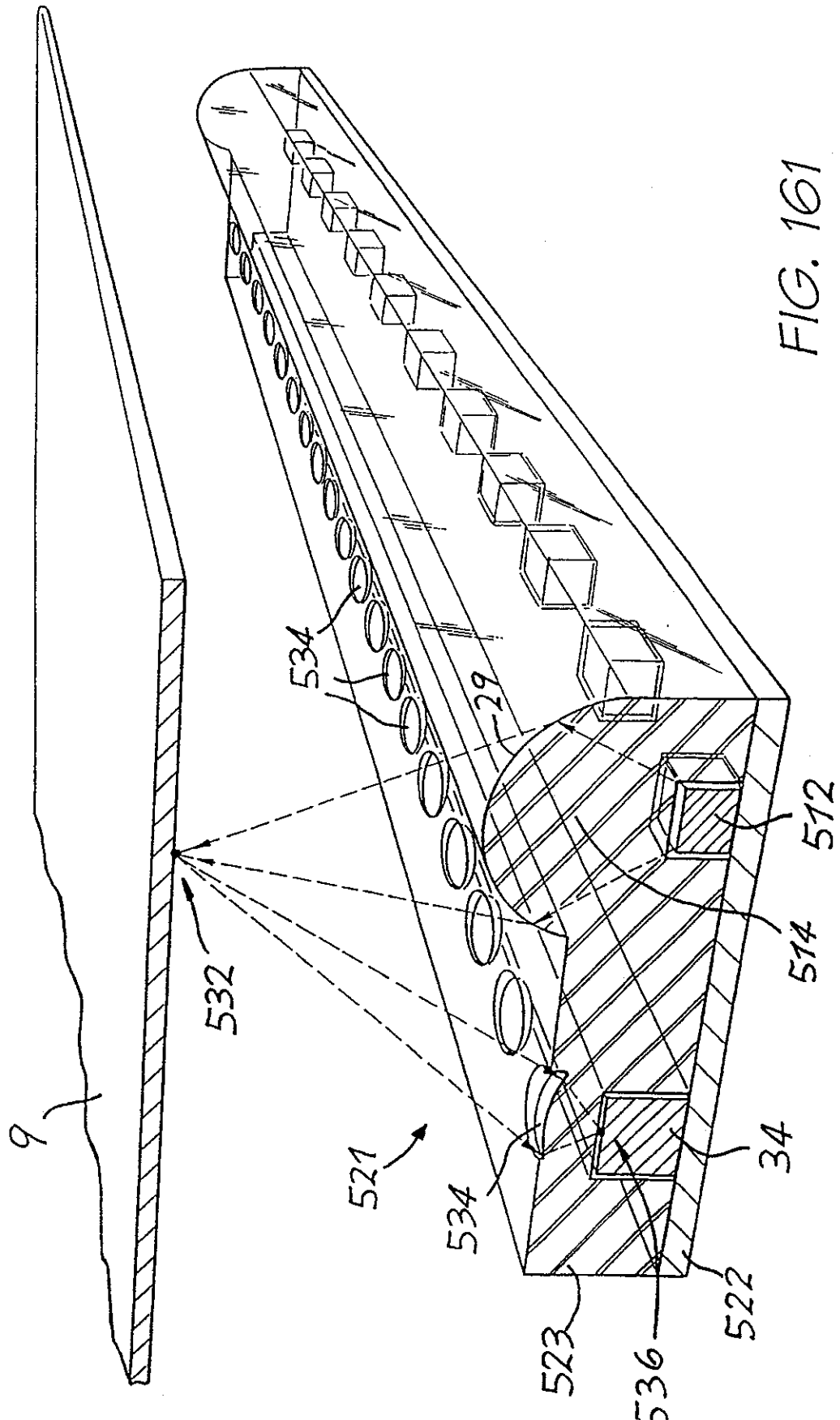
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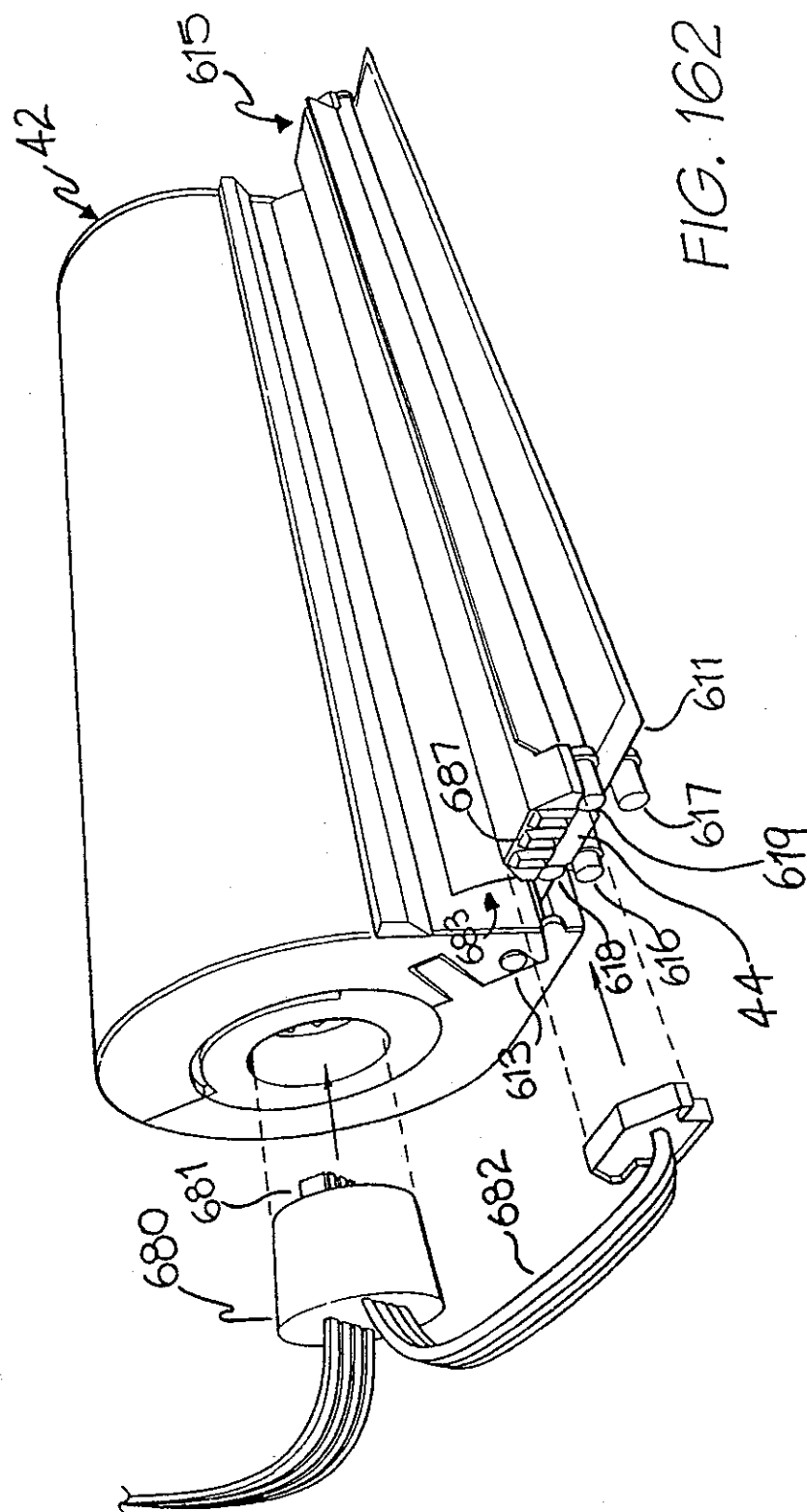


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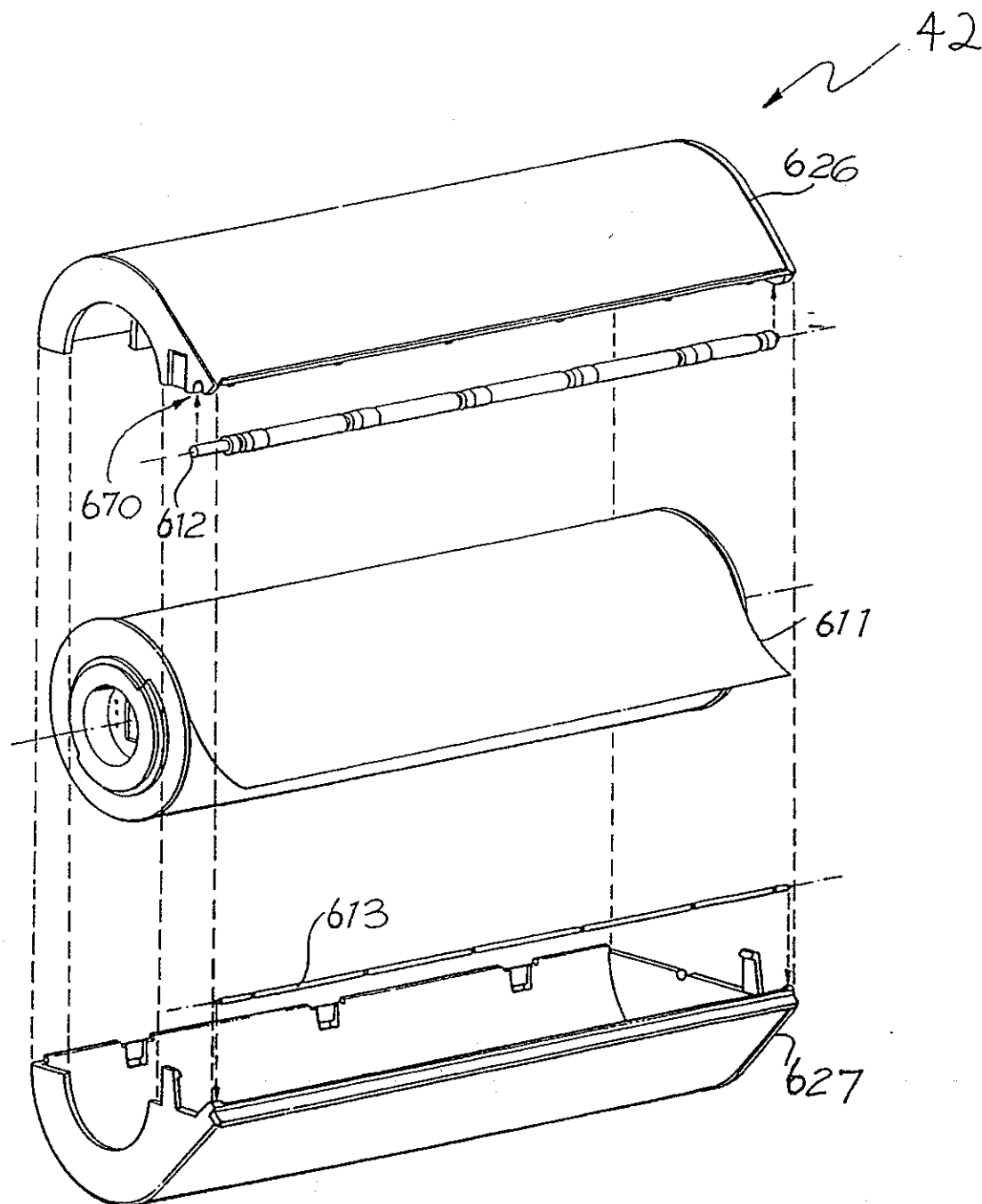


FIG. 163

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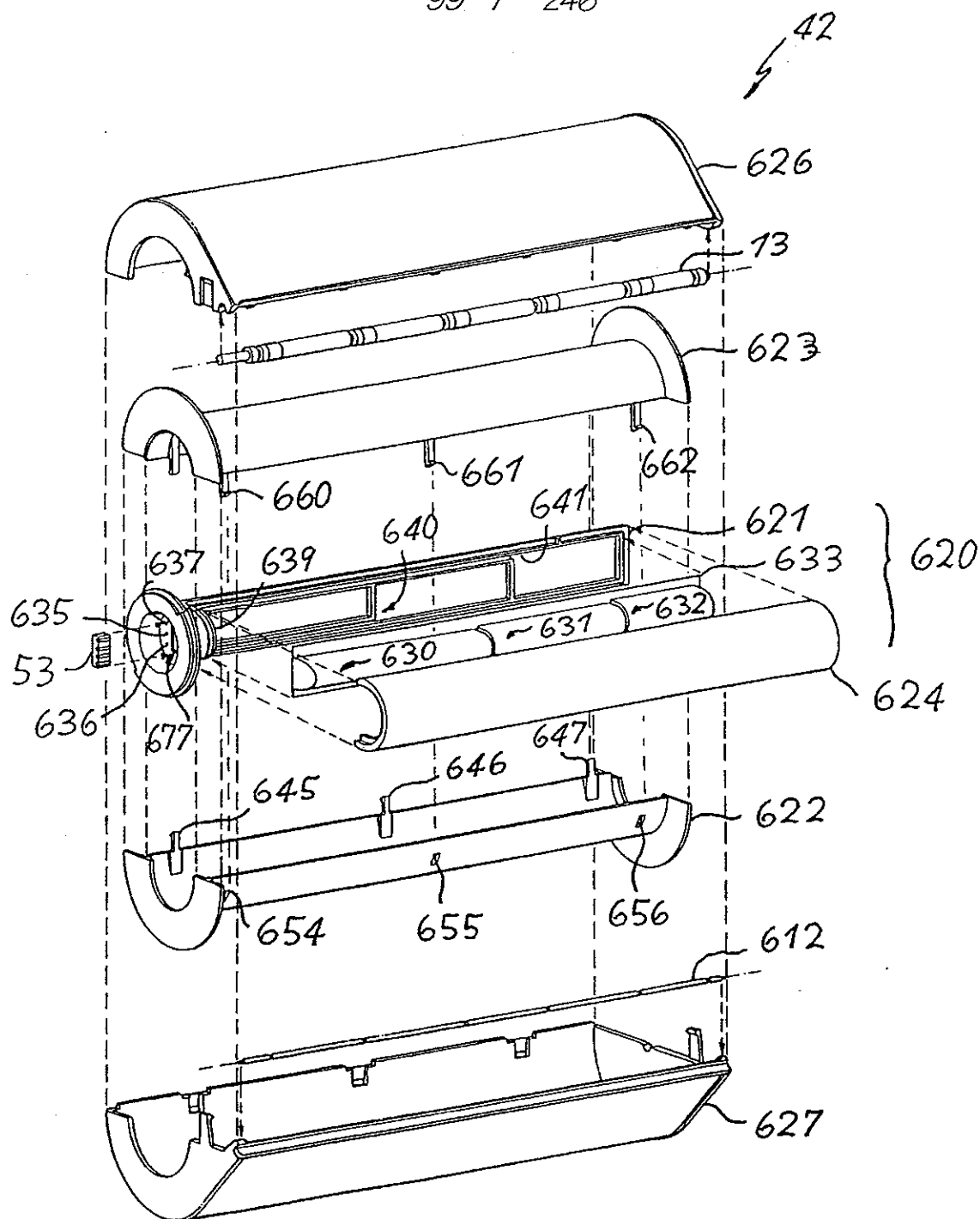


FIG. 164

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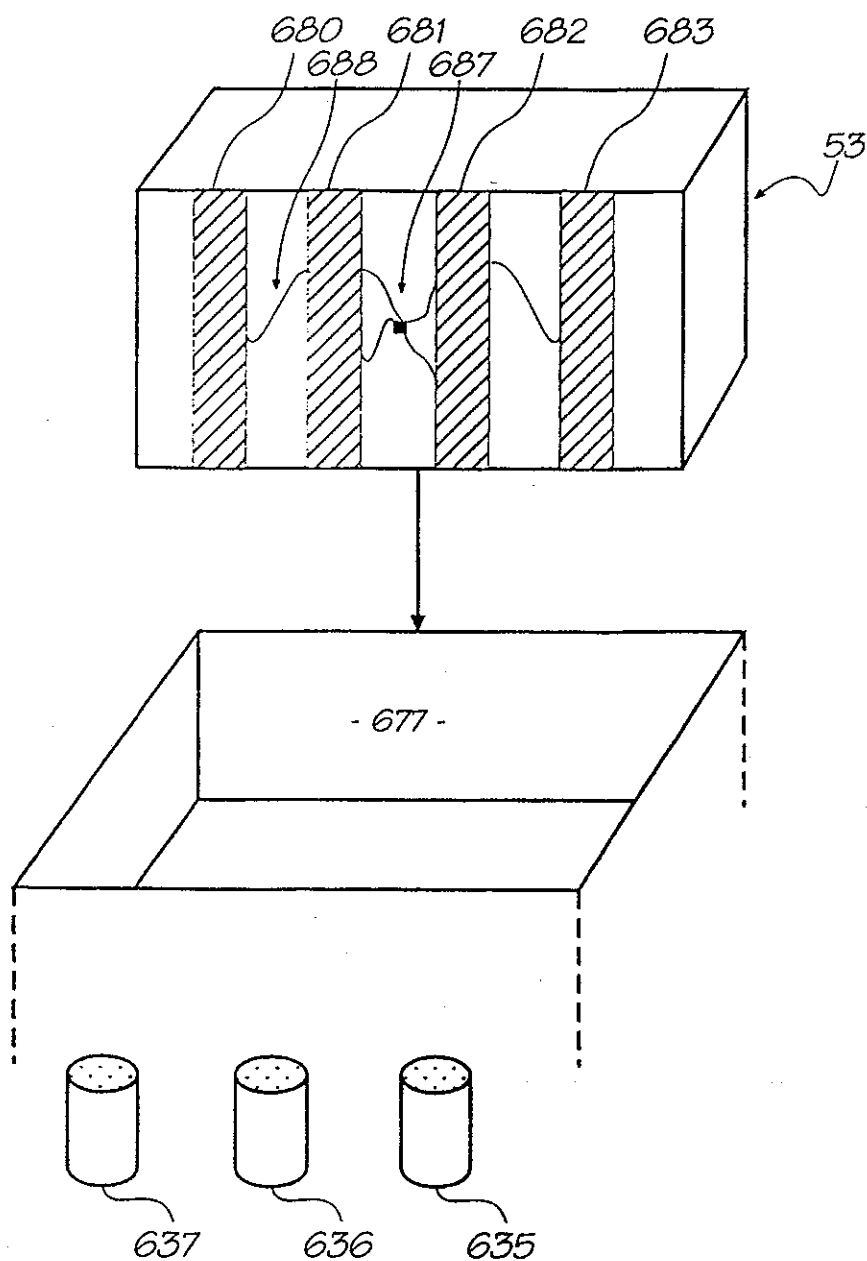


FIG. 165

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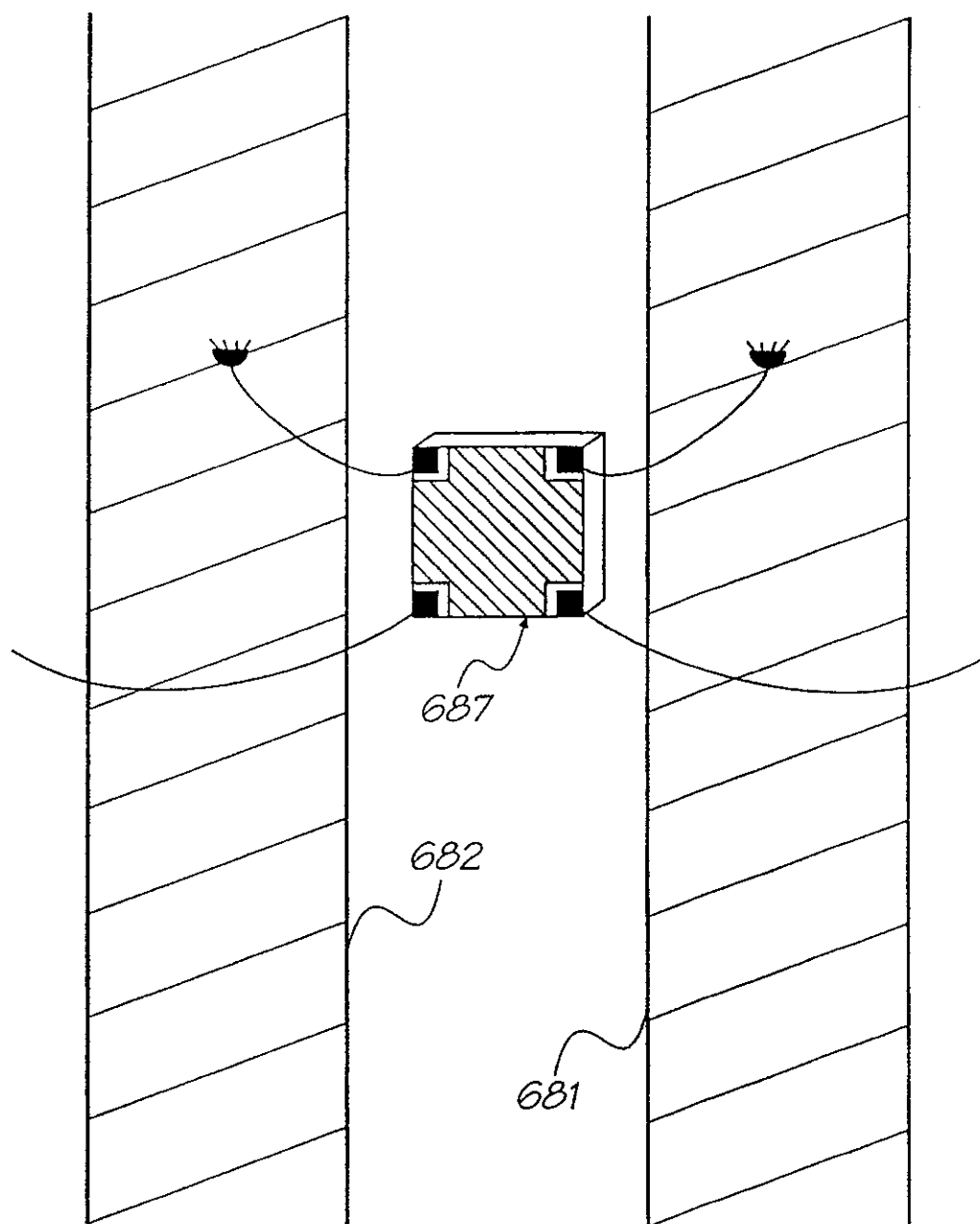


FIG. 166
SUBSTITUTE SHEET (Rule 26)

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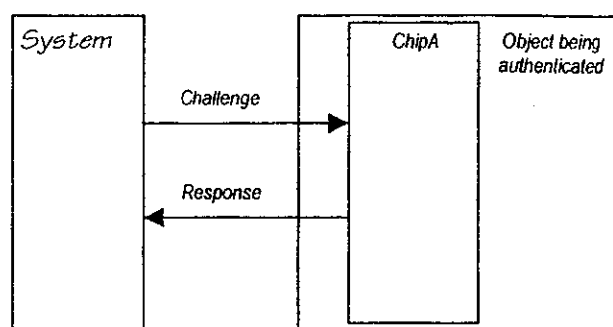


FIG. 167

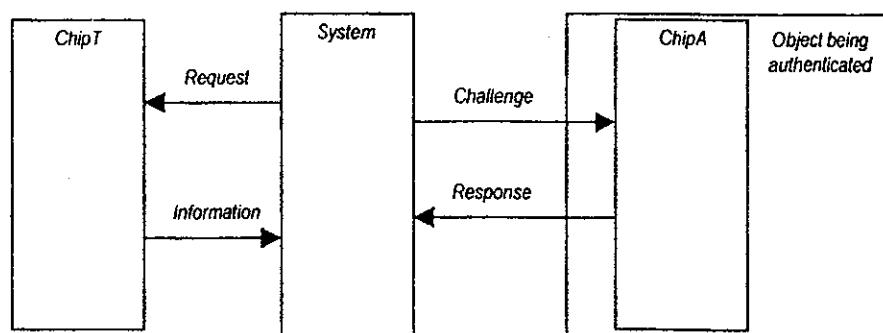


FIG. 168

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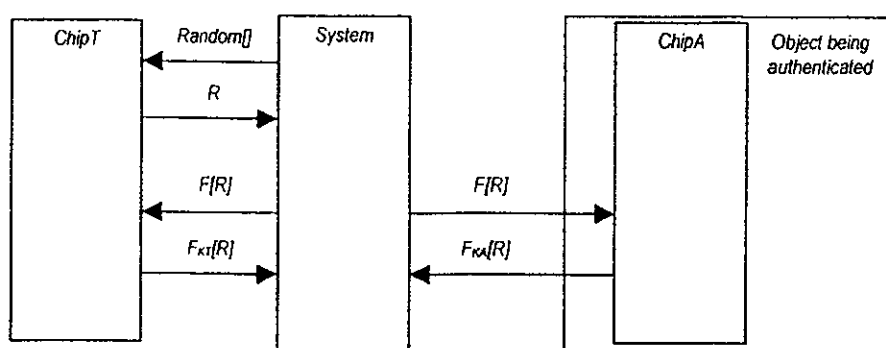


FIG. 169

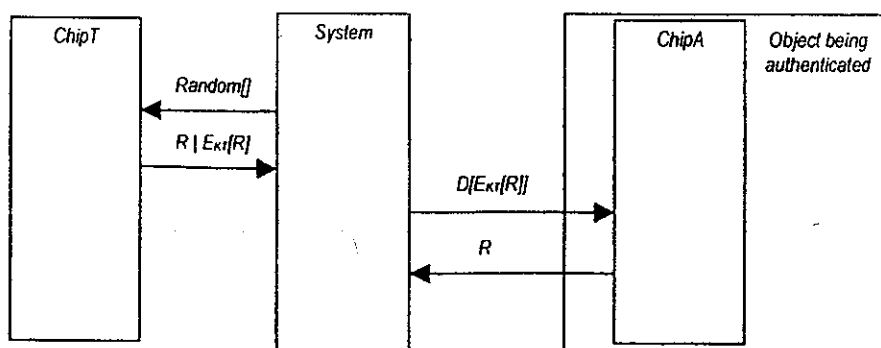


FIG. 170

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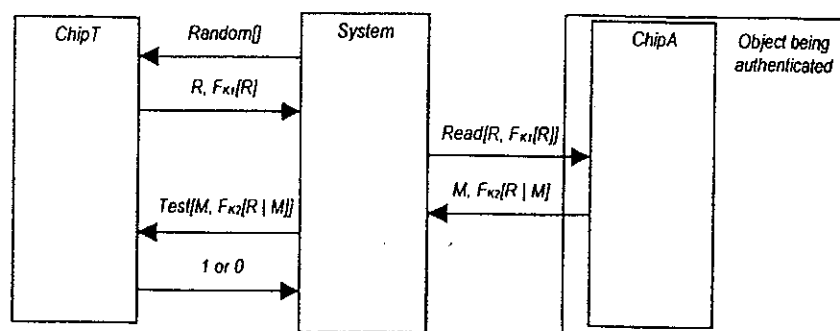


FIG. 171

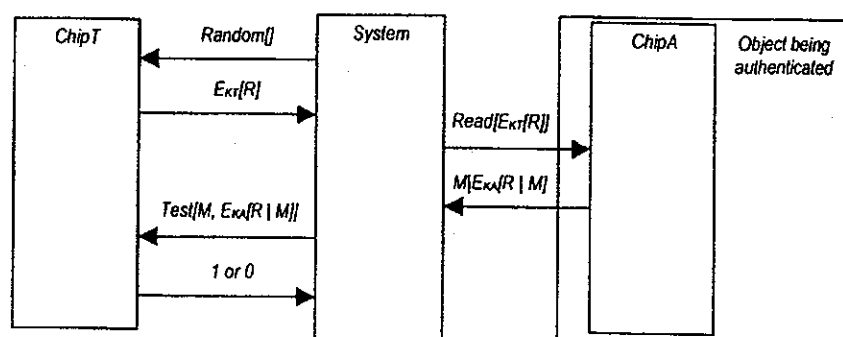


FIG. 172

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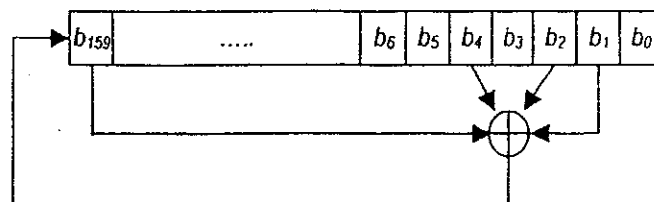


FIG. 173

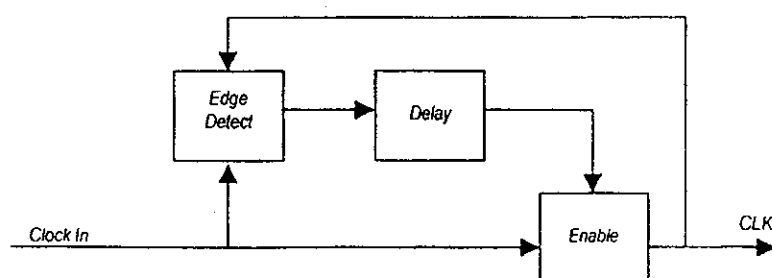


FIG. 174

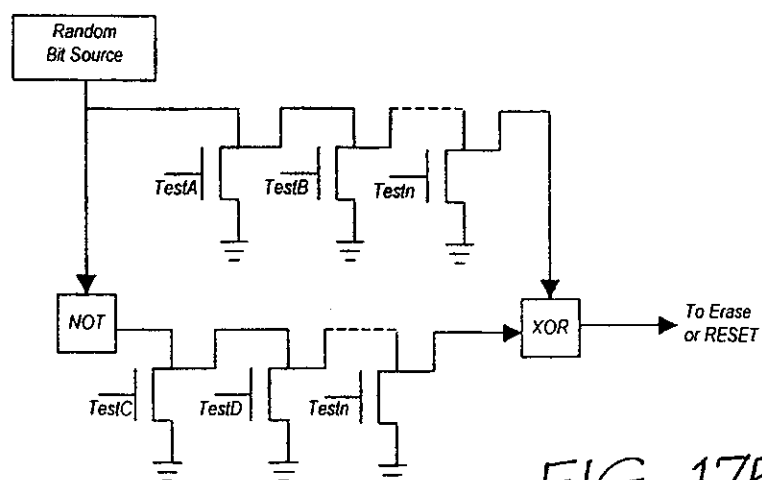


FIG. 175

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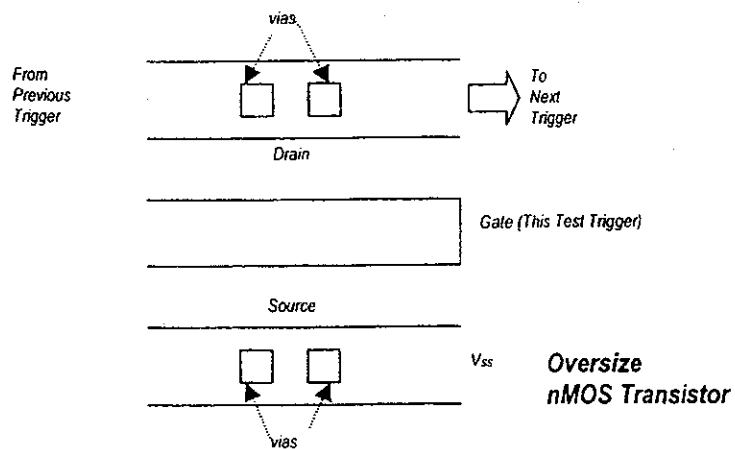


FIG. 176

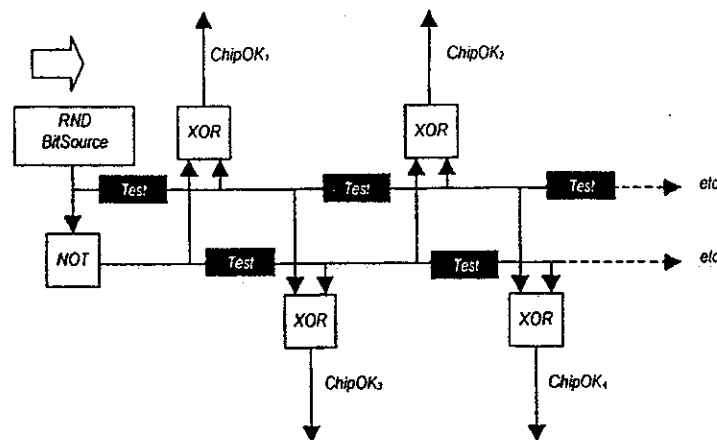


FIG. 177

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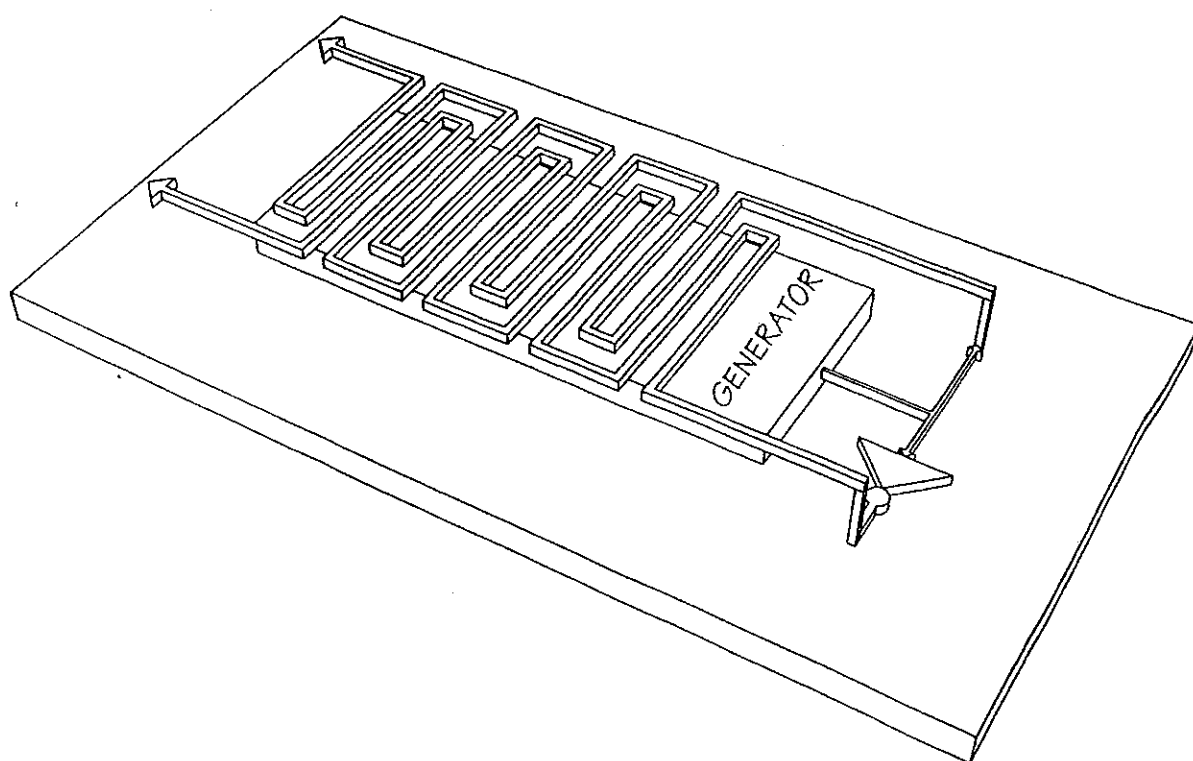


FIG. 178

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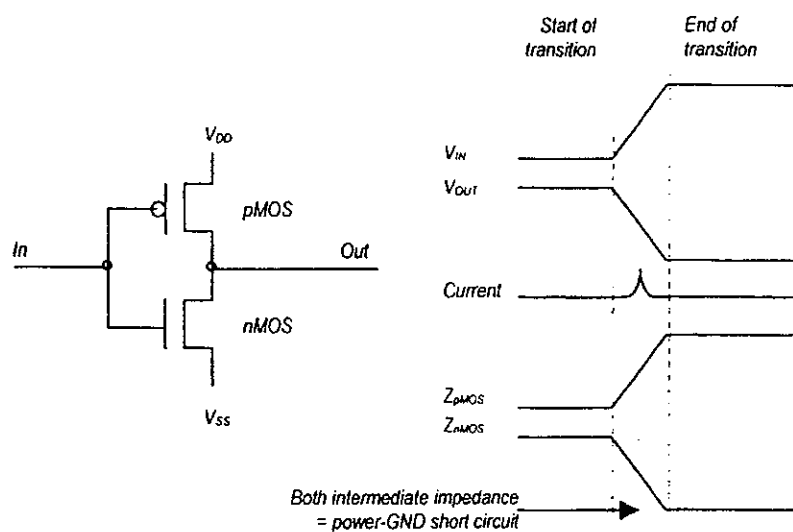


FIG. 179

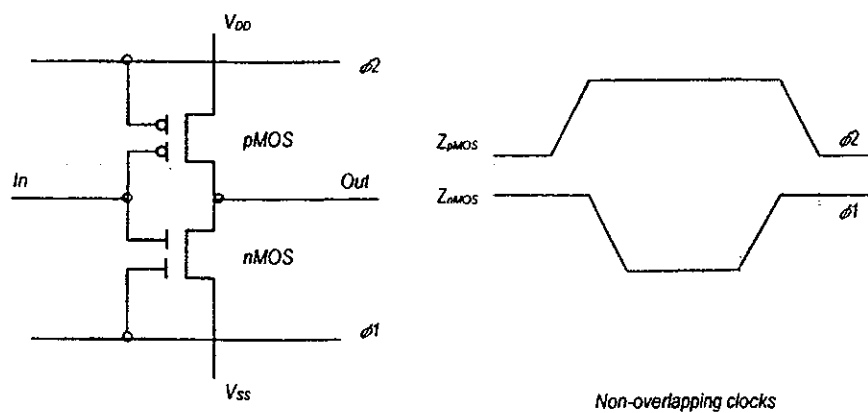


FIG. 180

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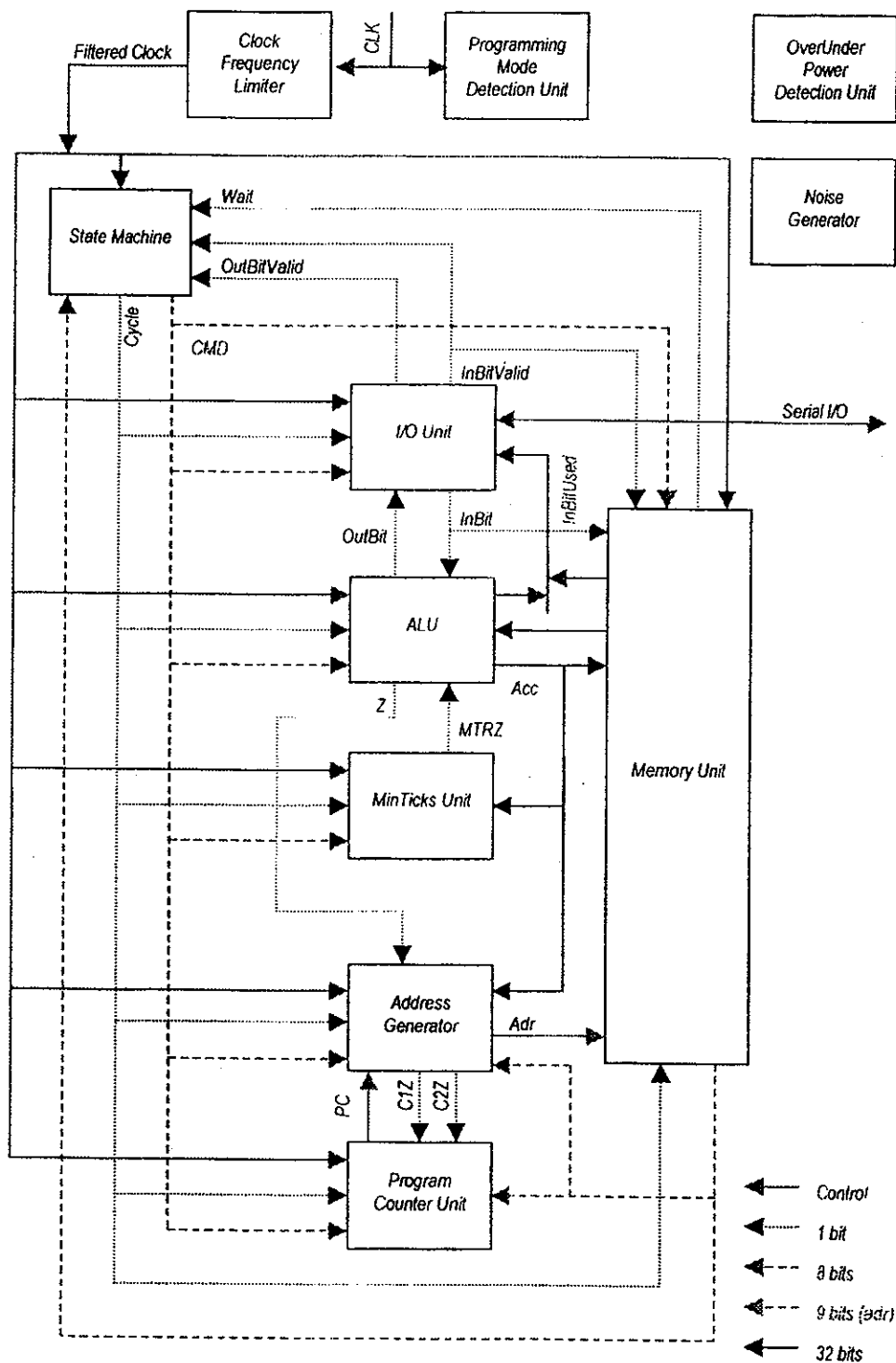


FIG. 181

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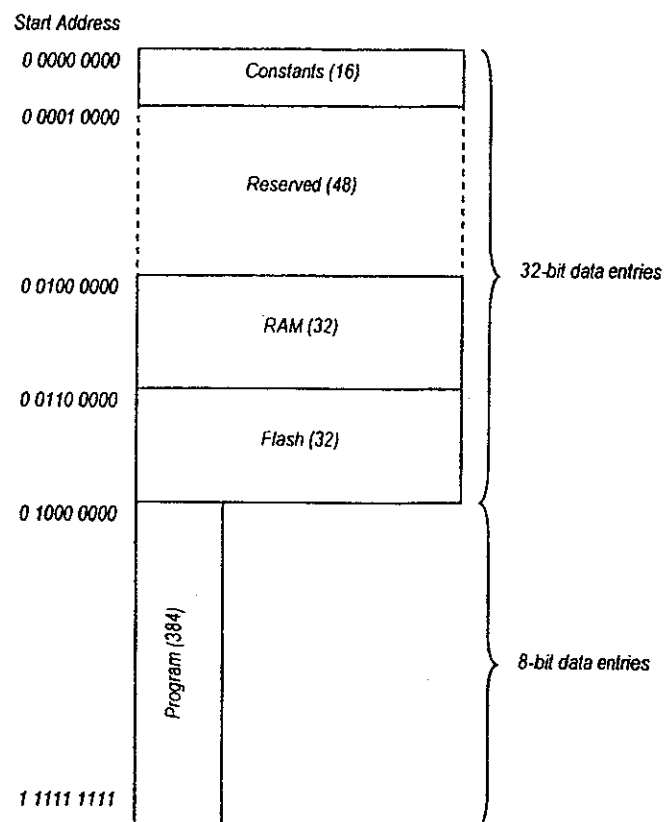


FIG. 182

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Start Address			
0 0000 0000	0x00000000	4 x 32-bit constants	
	0x36363636		
	0x5C5C5C5C		
	0xFFFFFFFF		
0 0000 0100	0x5A827999 (y_0)	4 x 32-bit y constants as used by SHA-1.	
	0x6ED9EBA1 (y_1)		
	0x8F1BBCDC (y_2)		
	0xCA62C1D6 (y_3)		
0 0000 1000	0x67452301 (h_0)	5 x 32-bit h constants as used by SHA-1.	
	0xEFCDAB89 (h_1)		
	0x98BADCFE (h_2)		
	0x10325476 (h_3)		
	0xC3D2E1F0 (h_4)		
	Reserved (3)	Unused and unreferenced	
0 0000 1111			

FIG. 183

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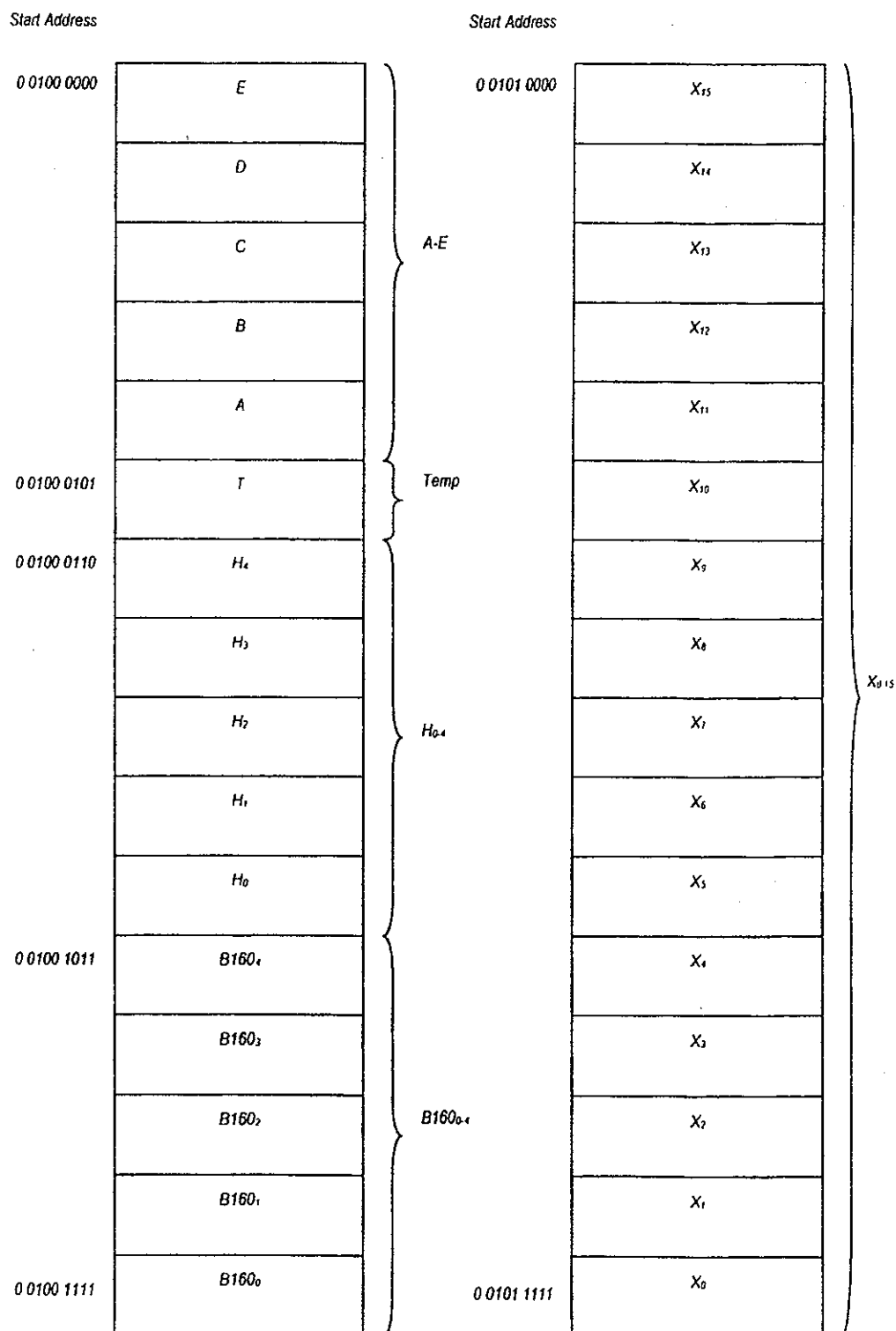


FIG. 184

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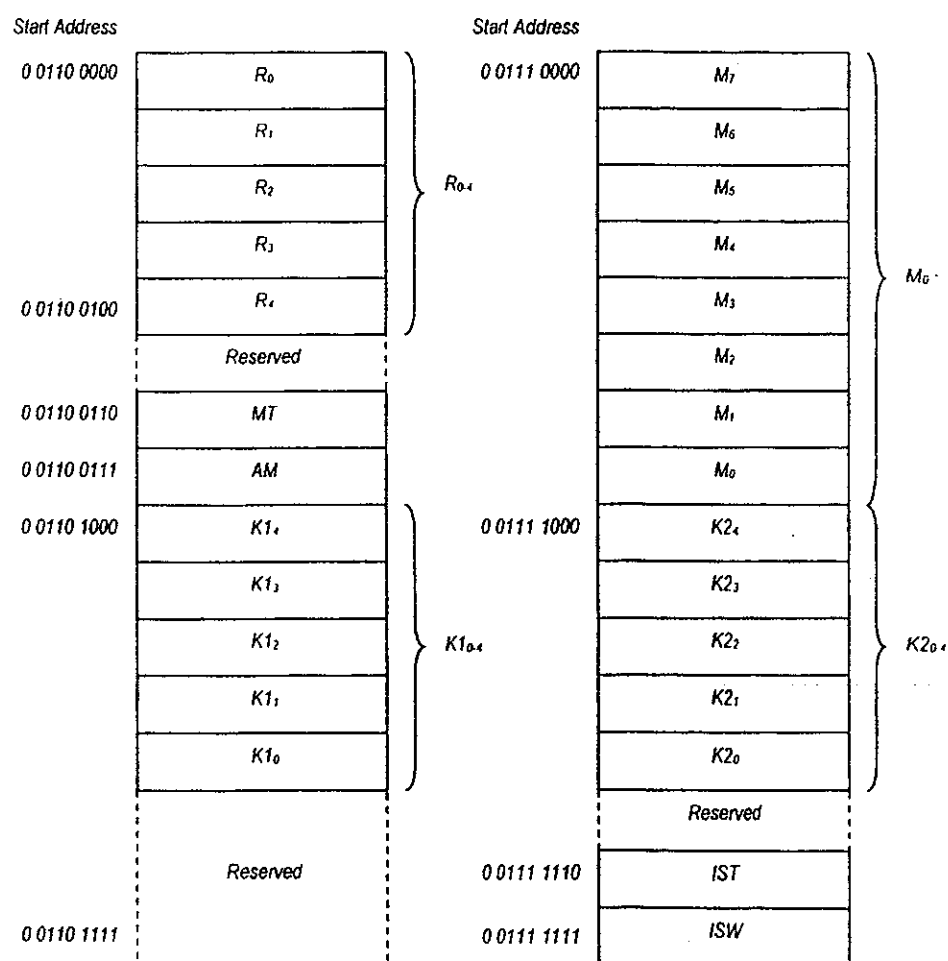


FIG. 185

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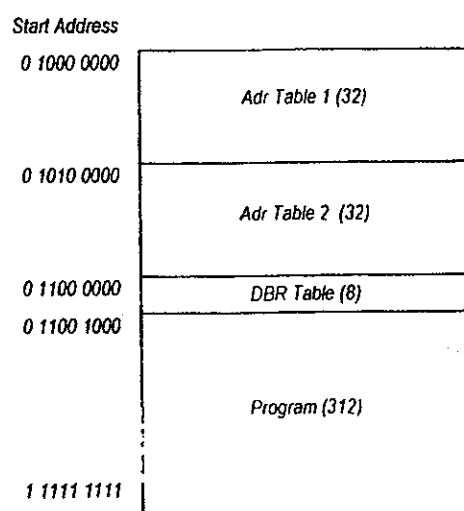


FIG. 186

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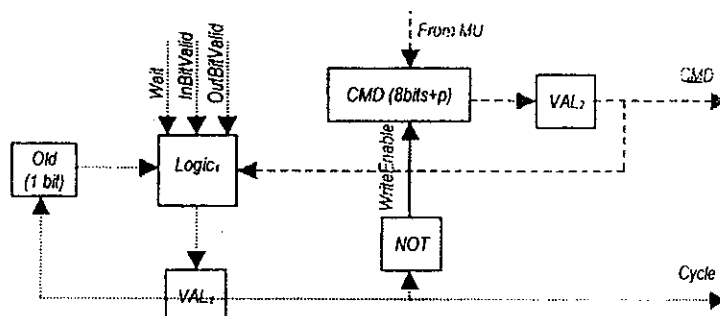


FIG. 187

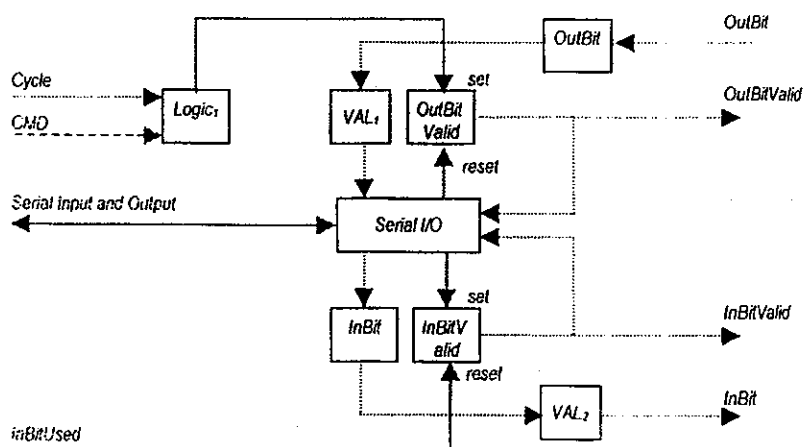


FIG. 188

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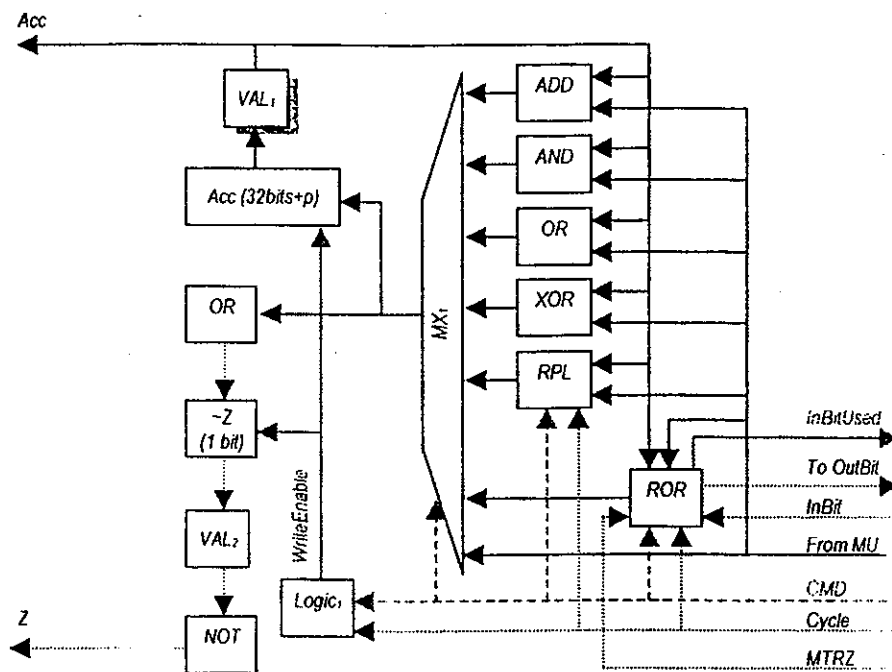


FIG. 189

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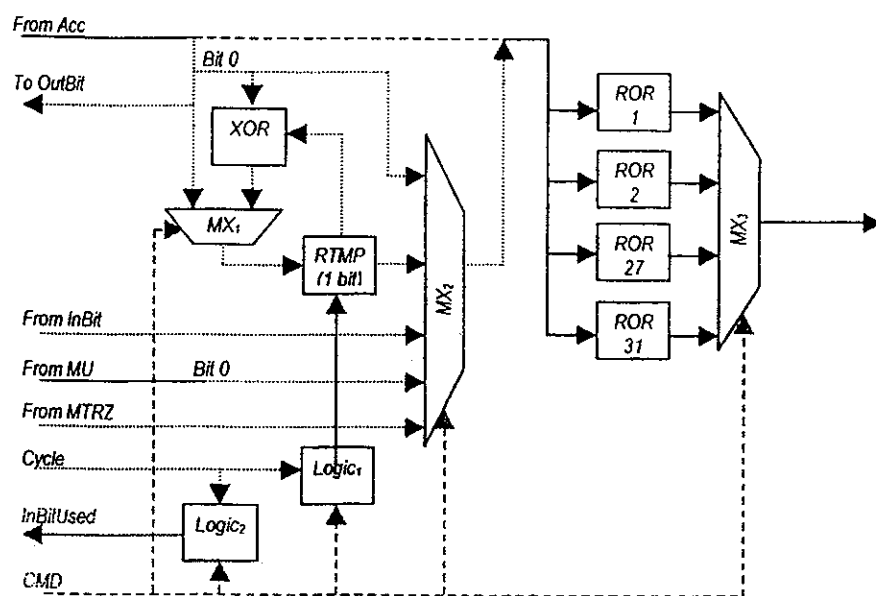


FIG. 190

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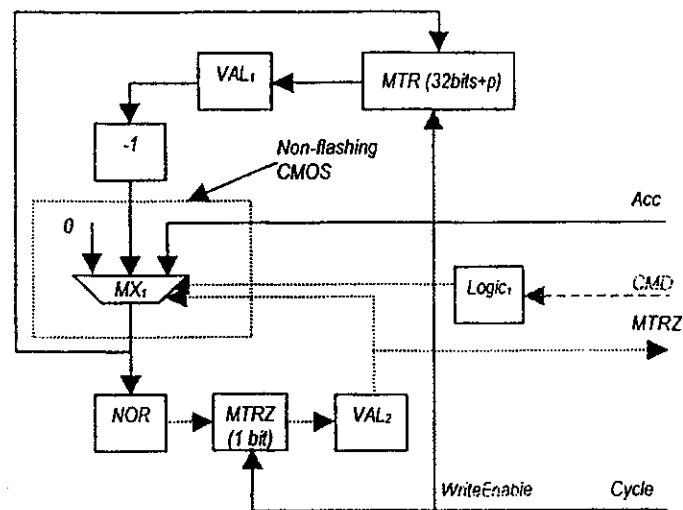


FIG. 191

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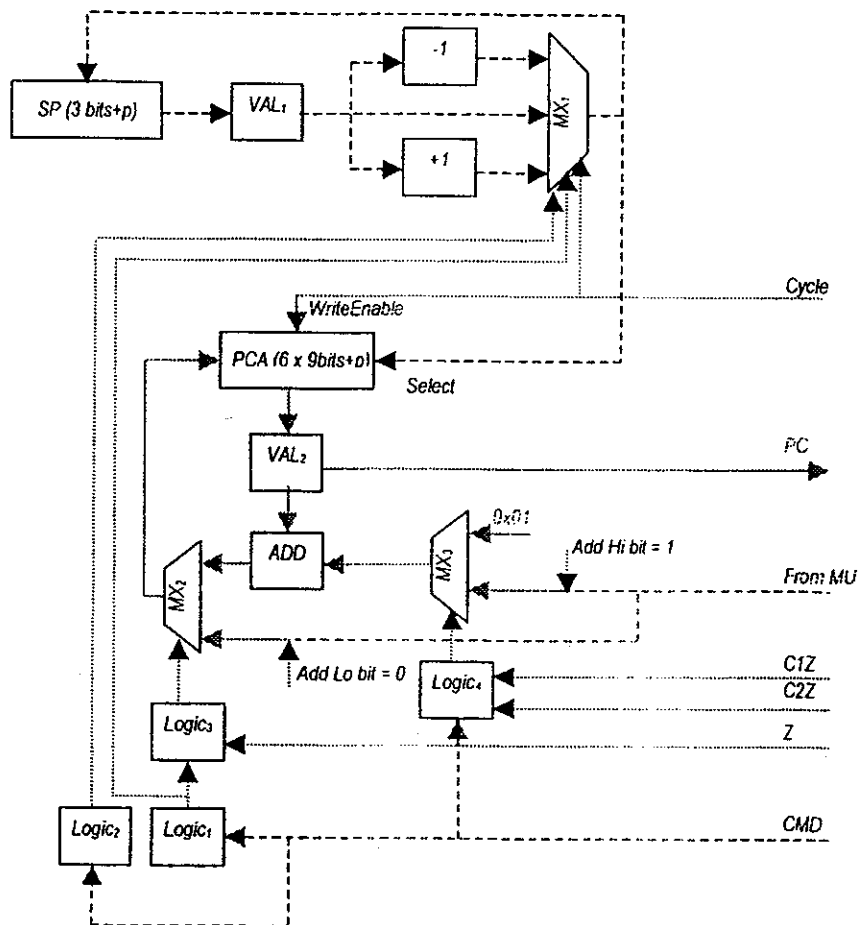


FIG. 192

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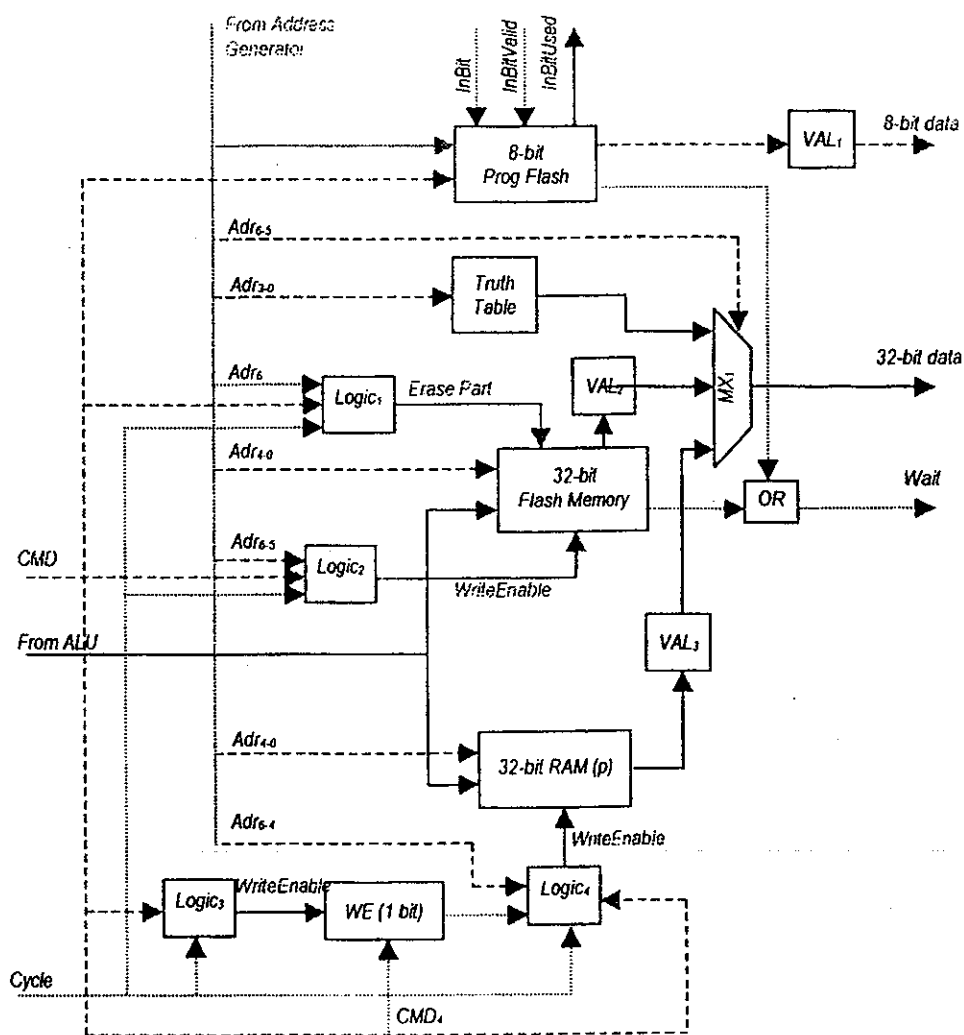


FIG. 193

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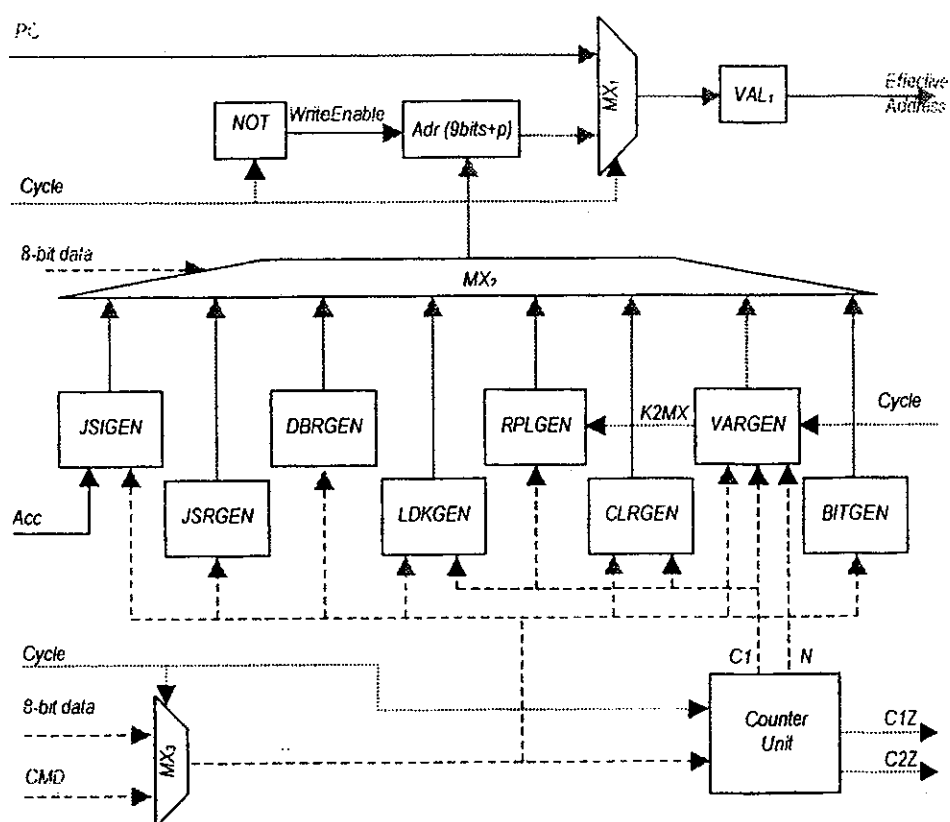
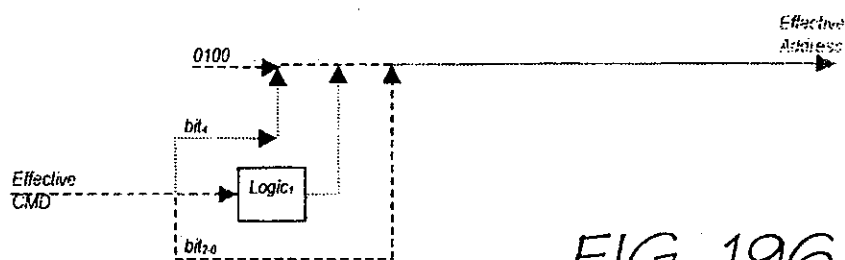
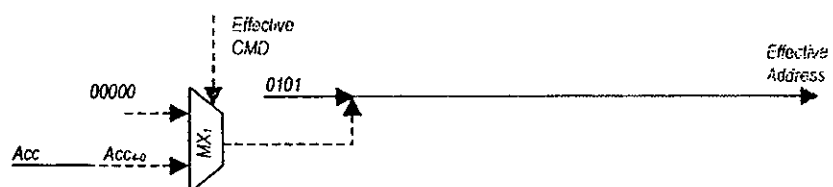


FIG. 194

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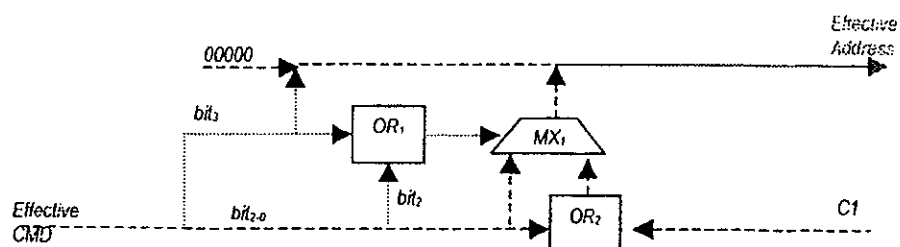


FIG. 198

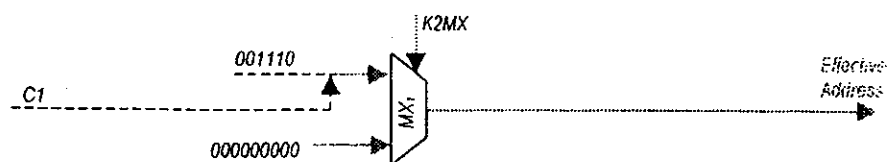


FIG. 199

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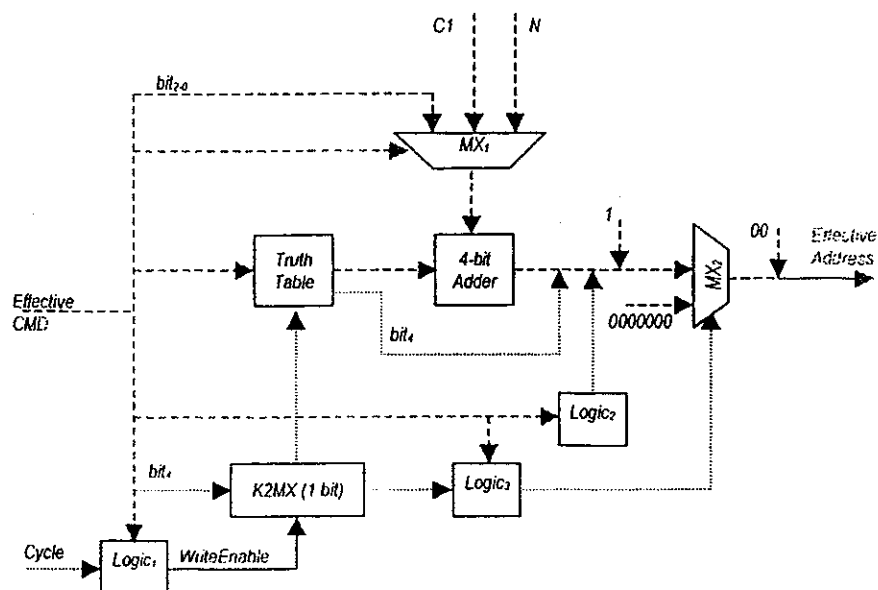


FIG. 200

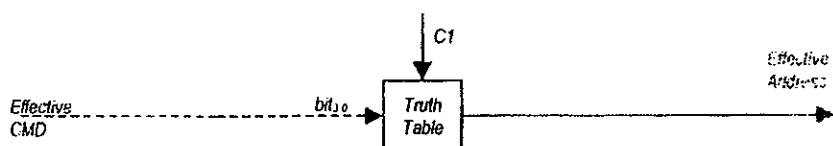


FIG. 201

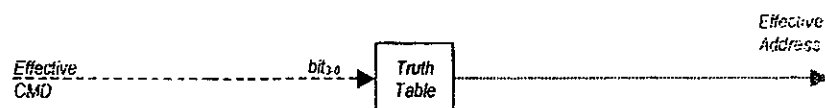
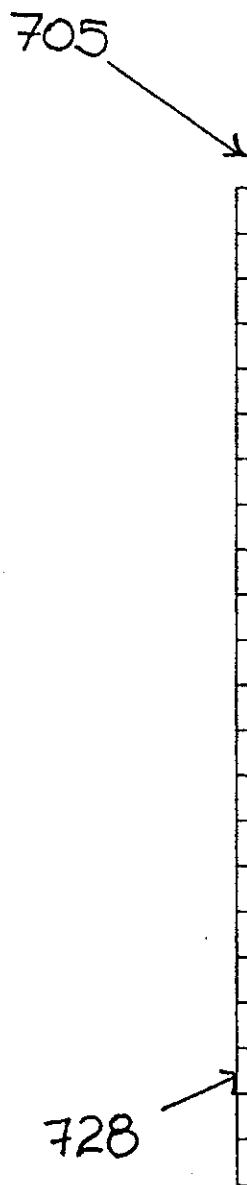


FIG. 202

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Data Type	Bits
Factory code	16
Batch number	32
Serial number	48
Manufacturing date	16
Media length	24
Media type	8
Preprinted media length	16
Cyan ink viscosity	8
Magenta ink viscosity	8
Yellow ink viscosity	8
Cyan drop volume	8
Magenta drop volume	8
Yellow drop volume	8
Cyan ink color	24
Magenta ink color	24
Yellow ink color	24
Remaining-media length indicator	16
Authentication key	128
Copyrightable bit pattern	512
Reserved for camera use	88
Total	1024

728

FIG. 204

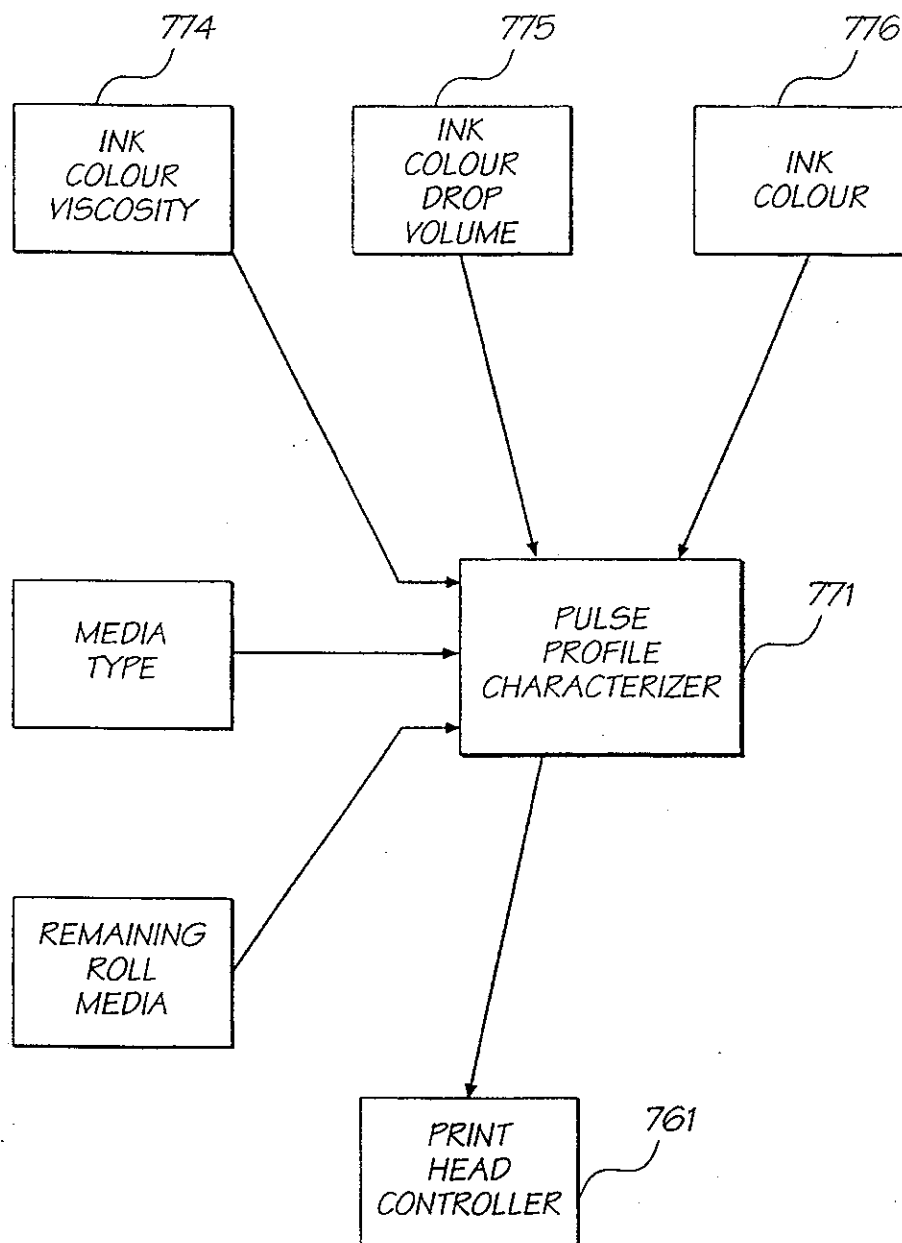


FIG. 205

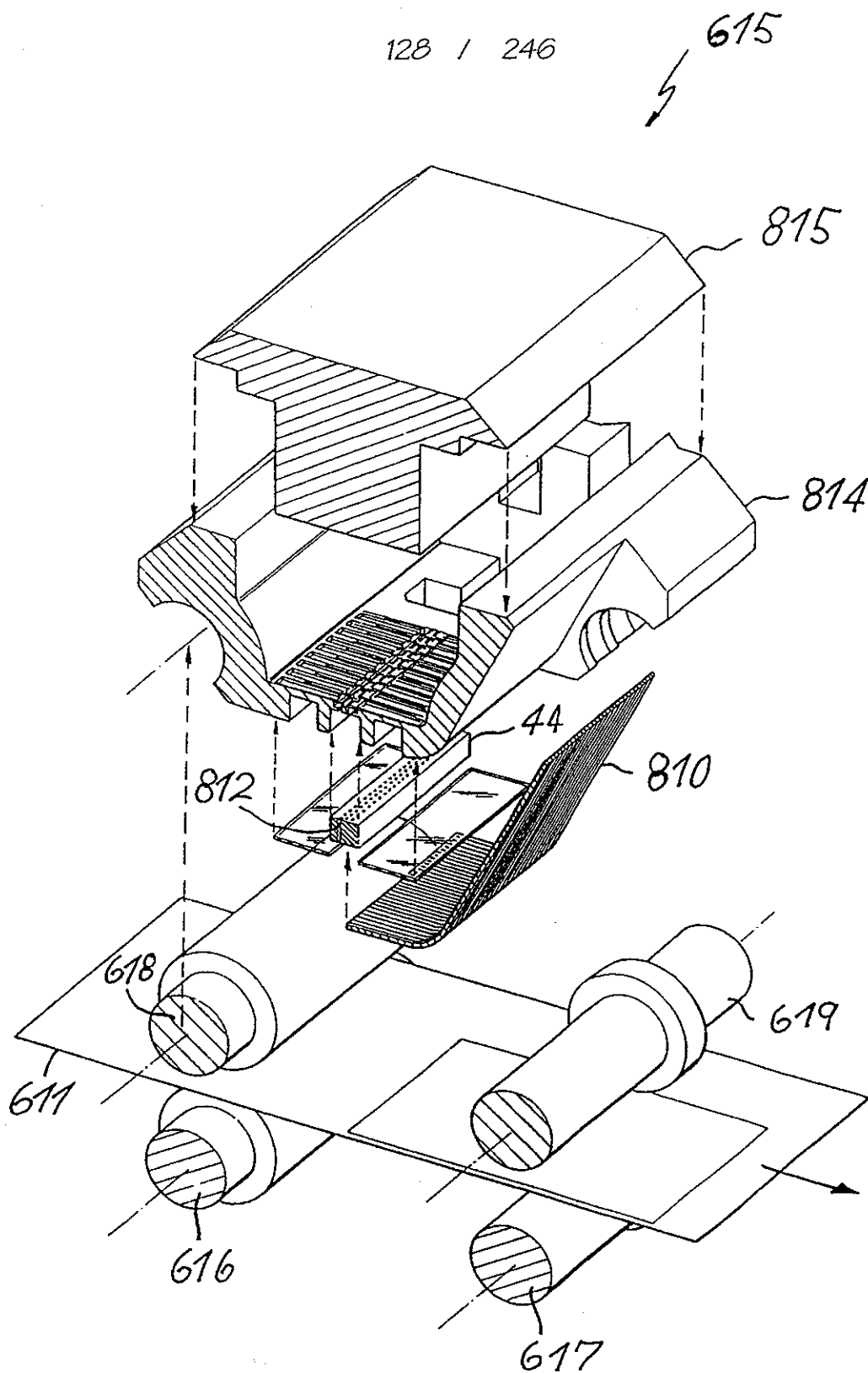


FIG 206

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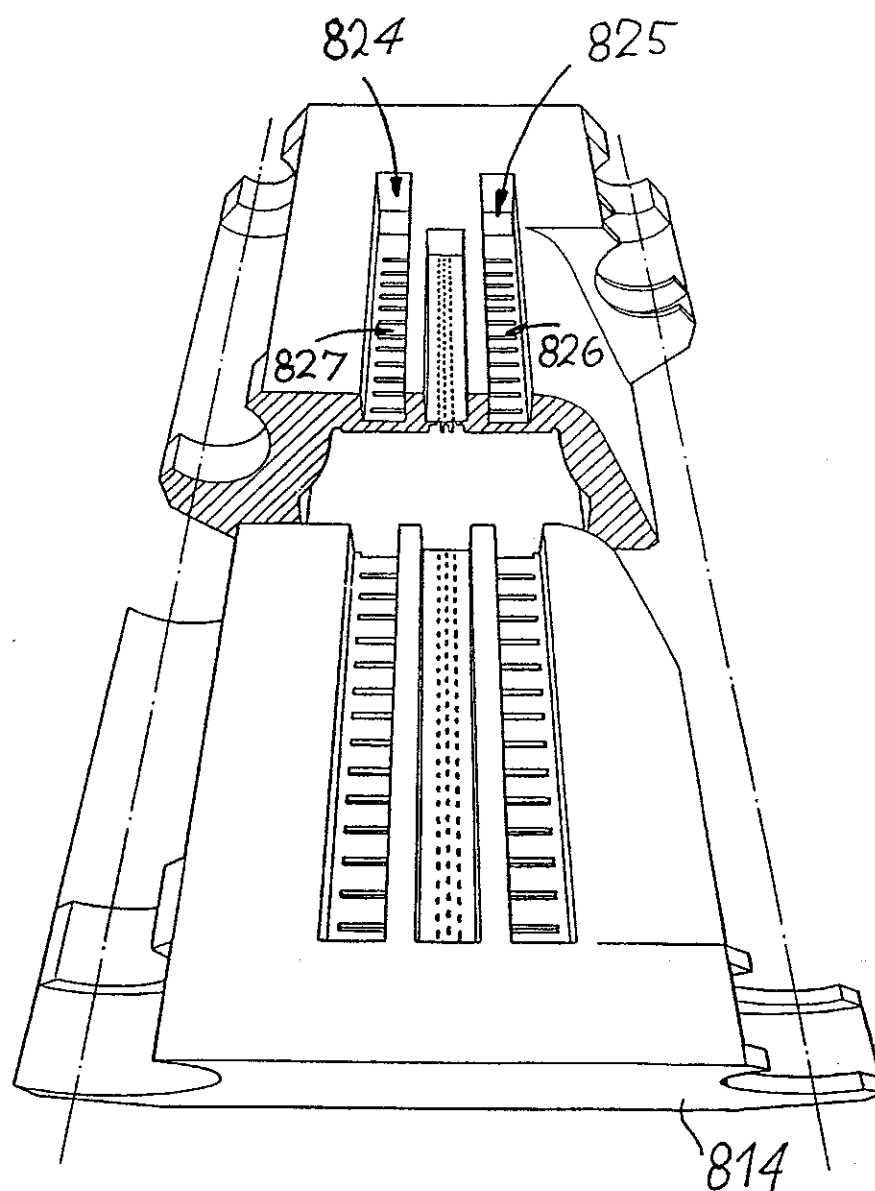


FIG. 207

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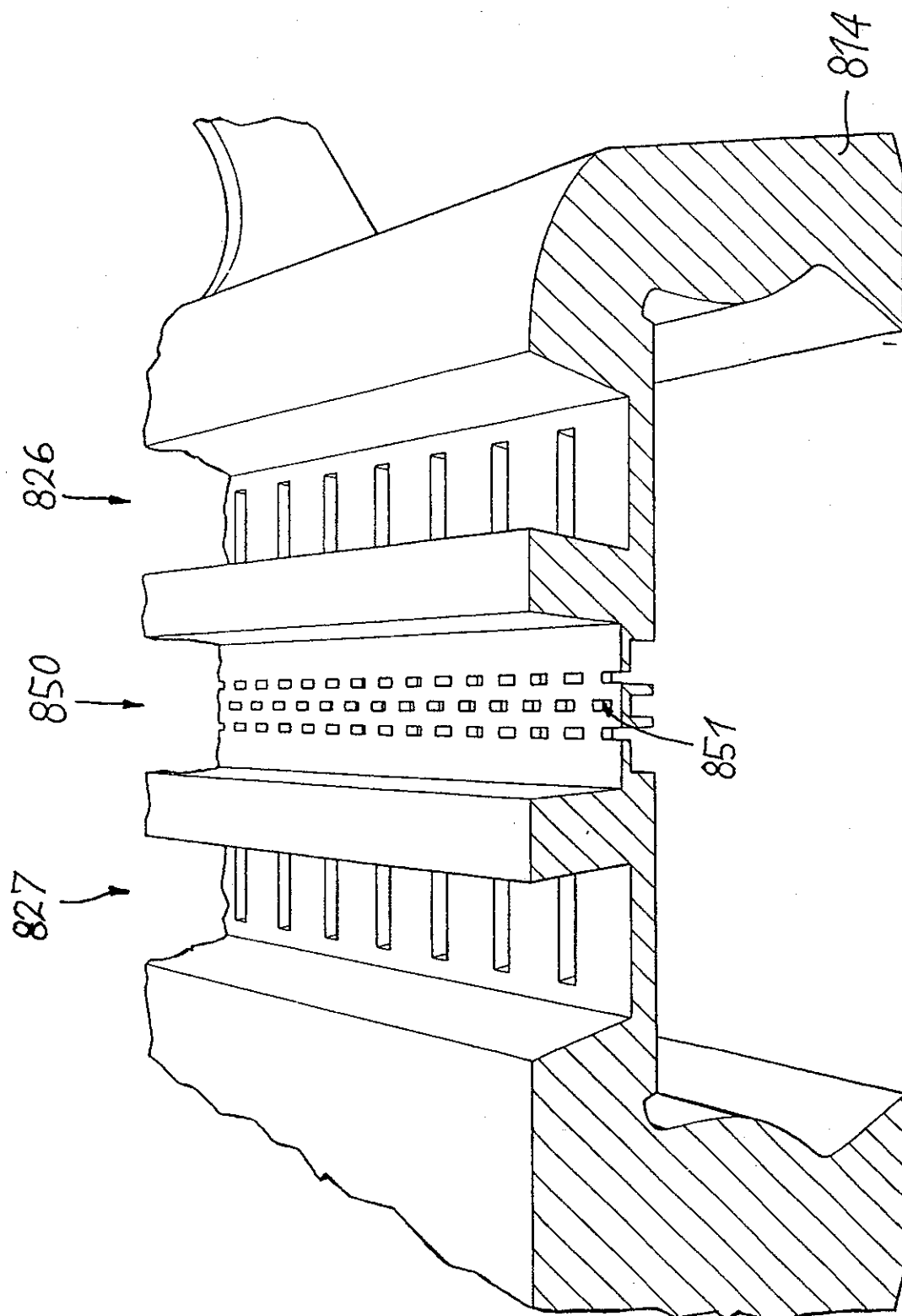


FIG. 208

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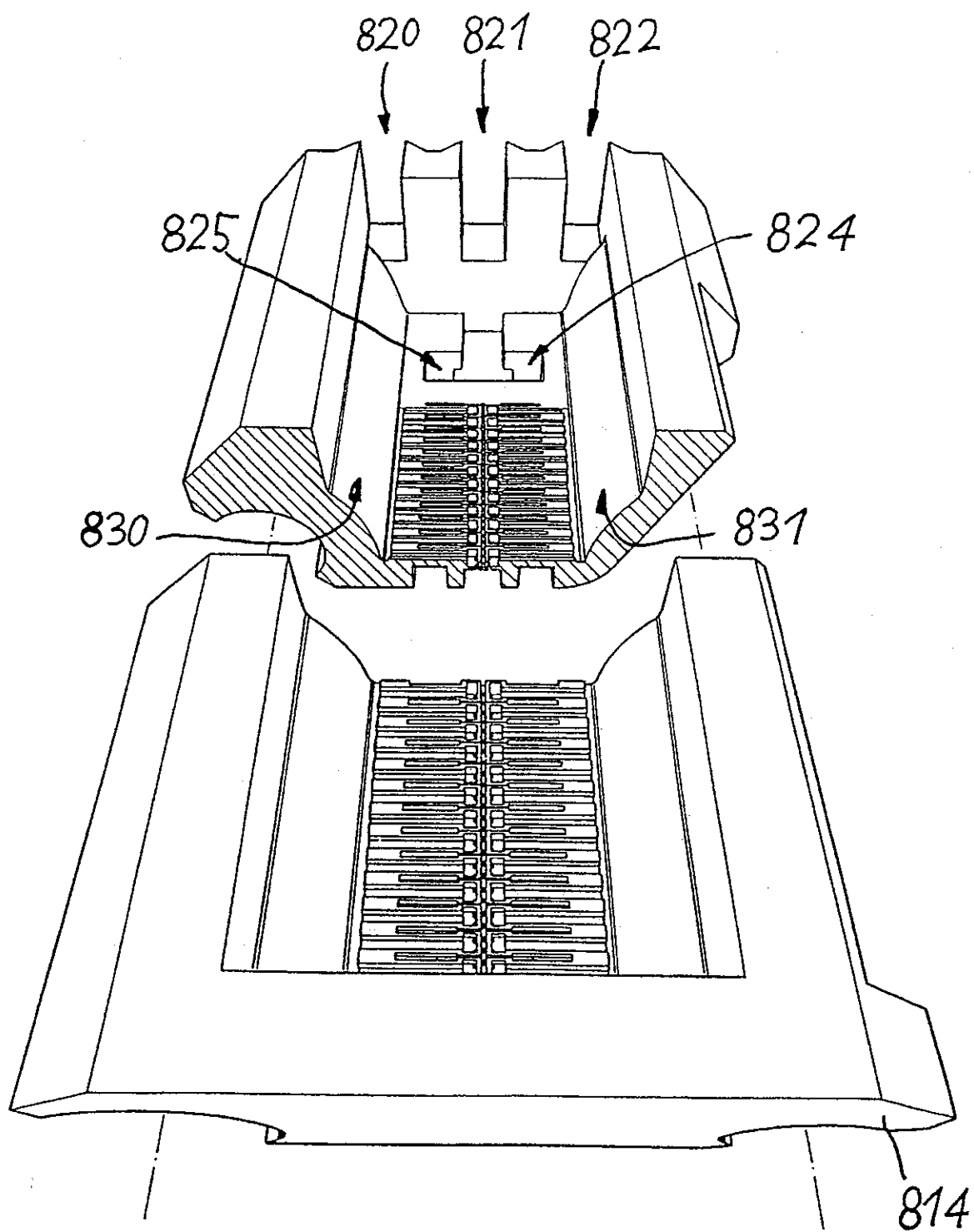


FIG. 209

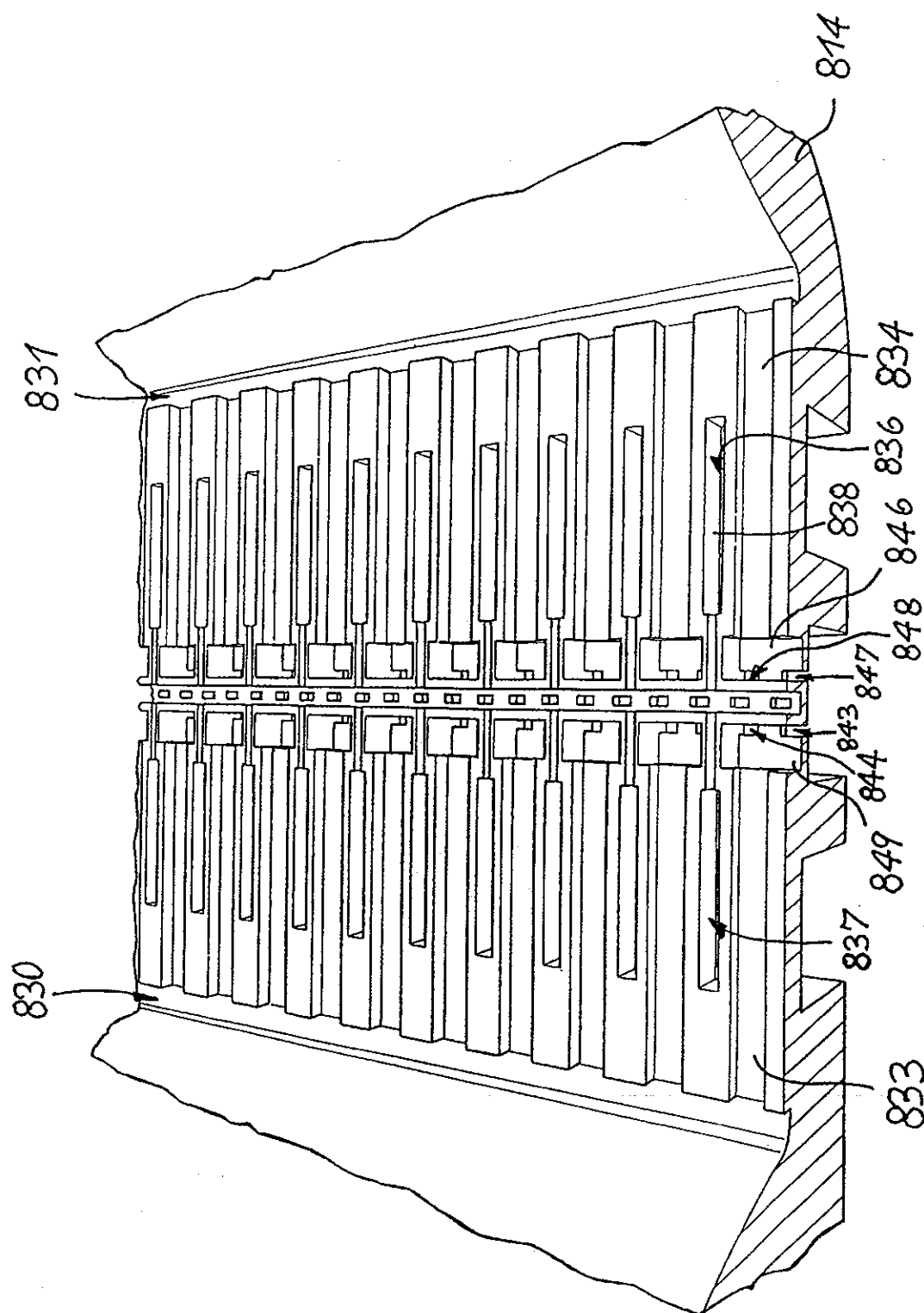


FIG. 210

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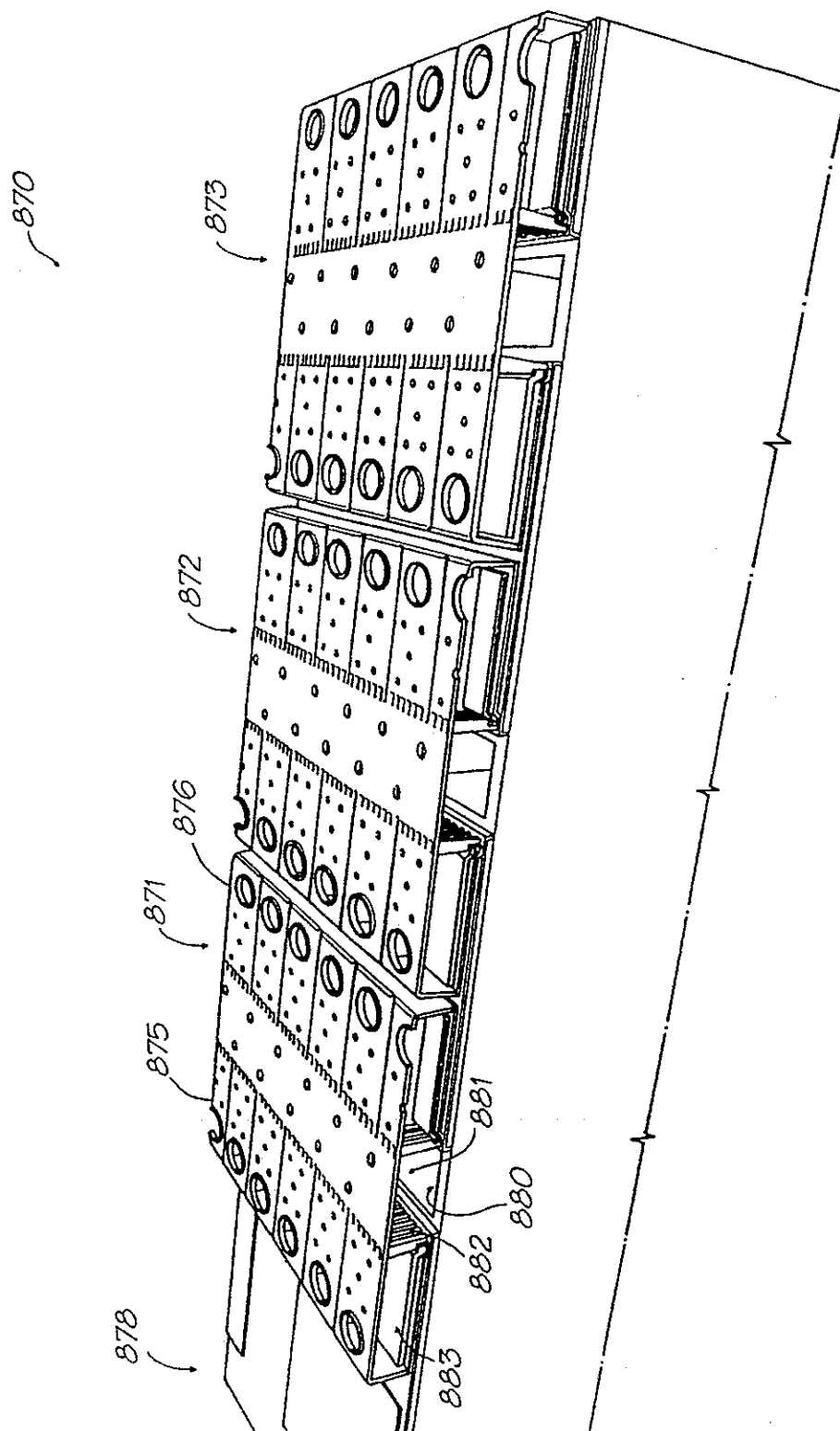


FIG. 211

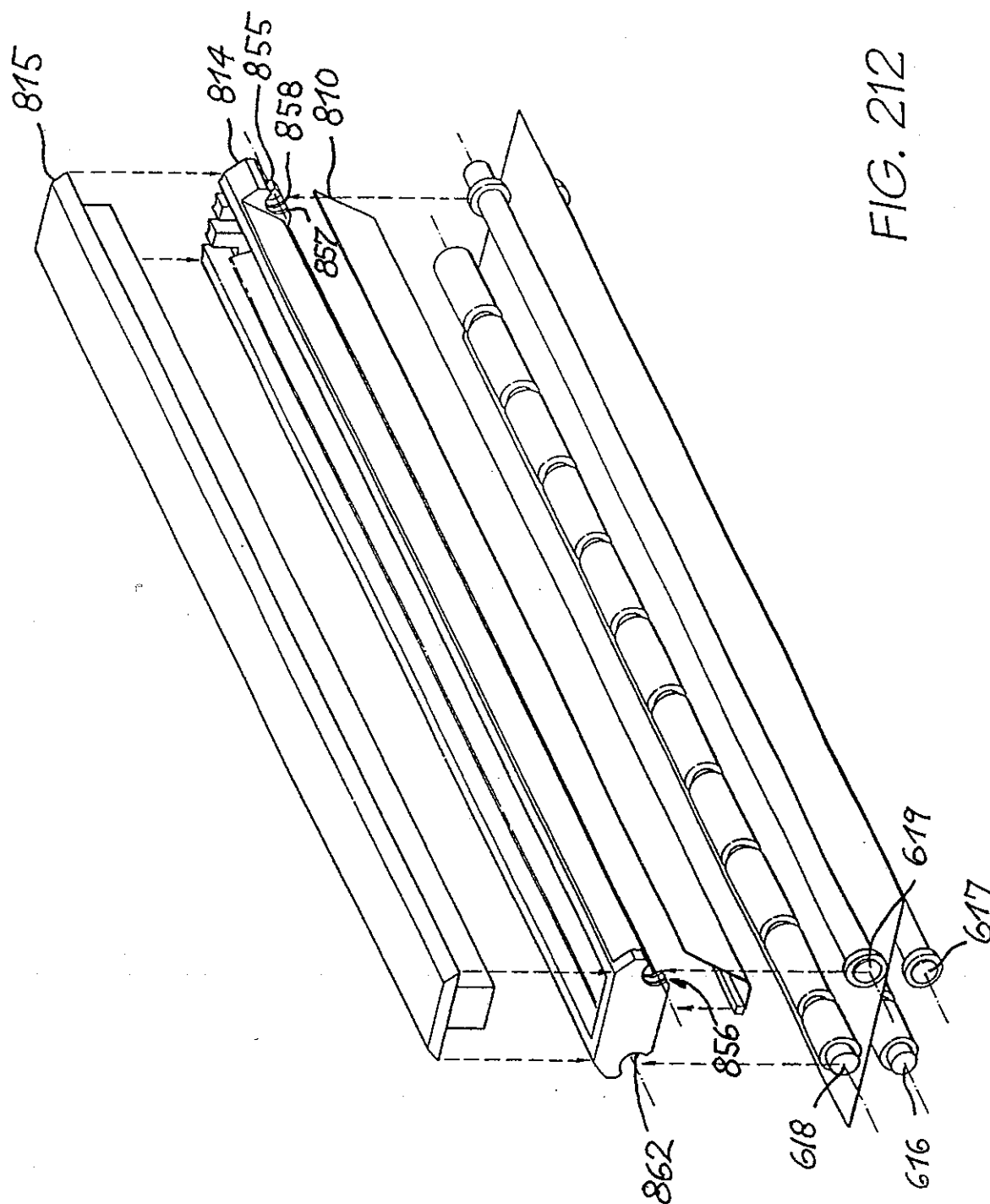


FIG. 212

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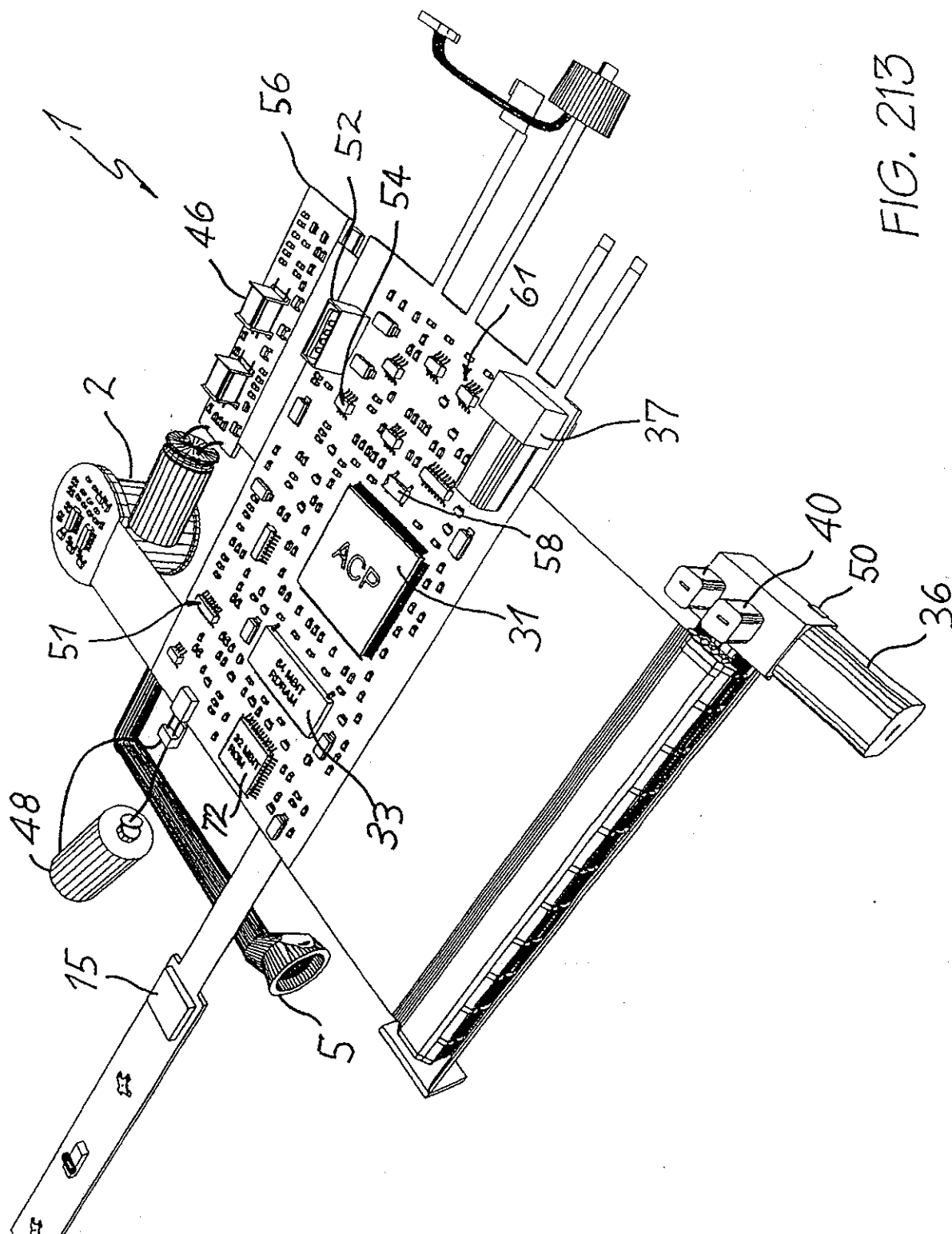
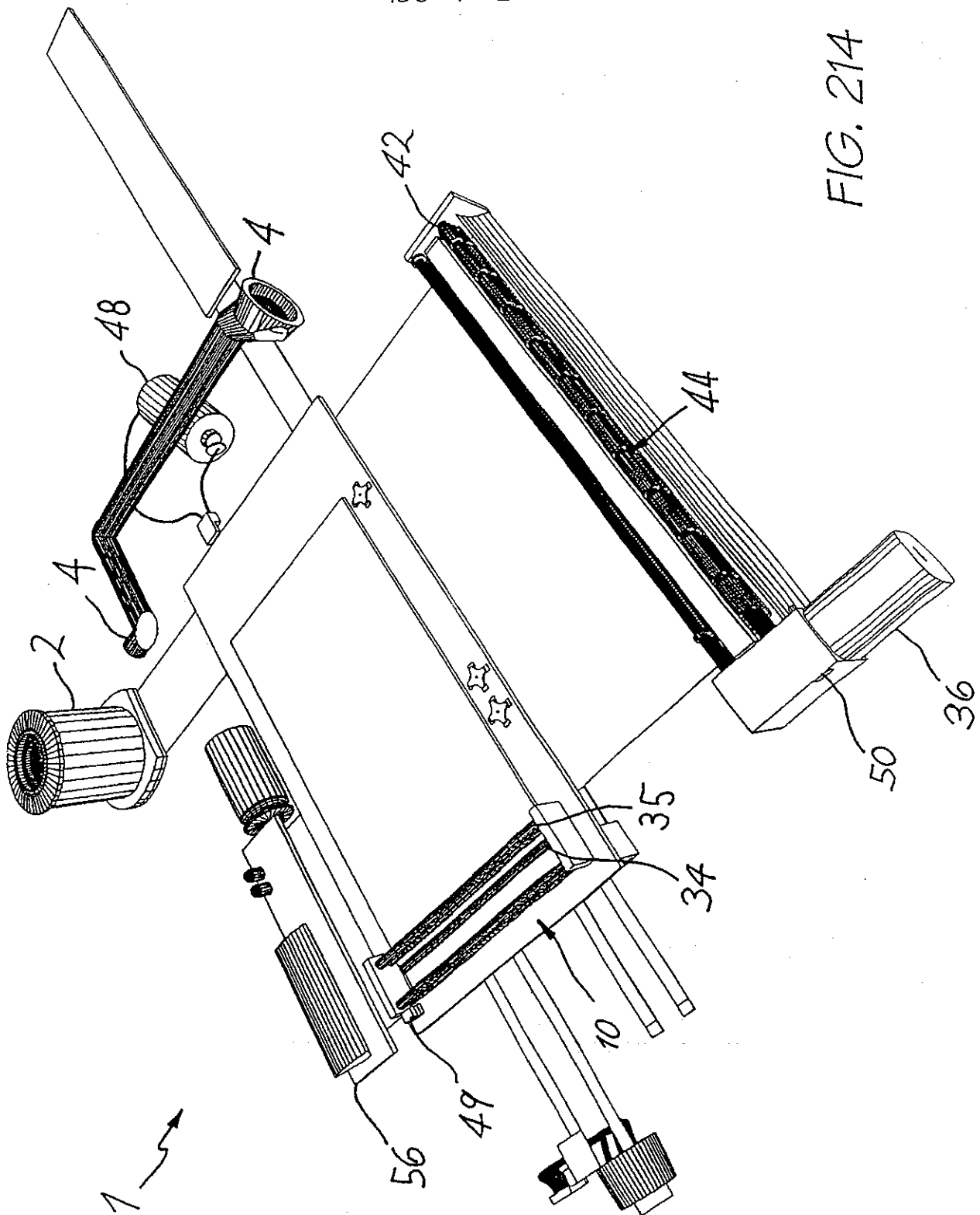


FIG. 214



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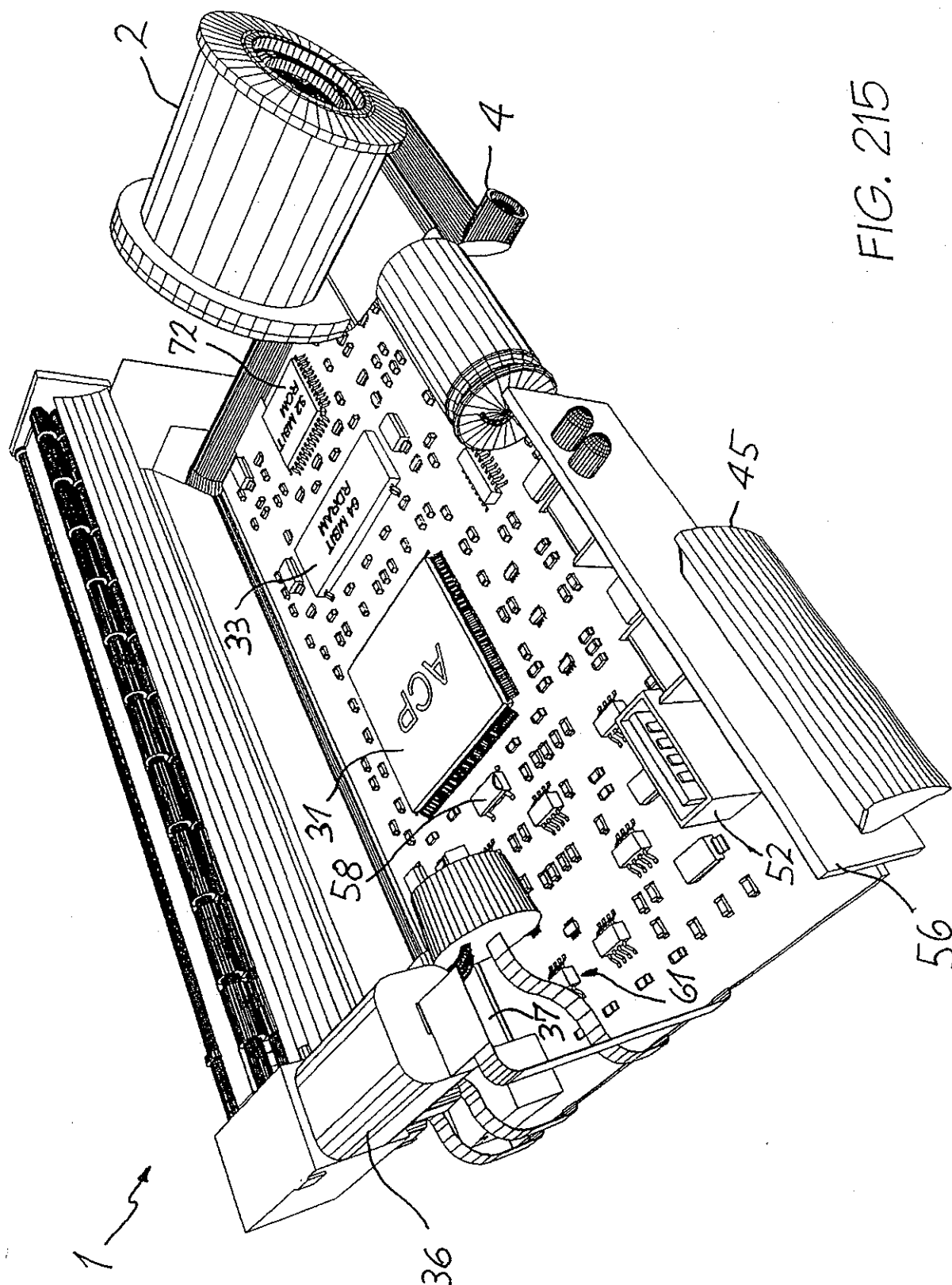


FIG. 215

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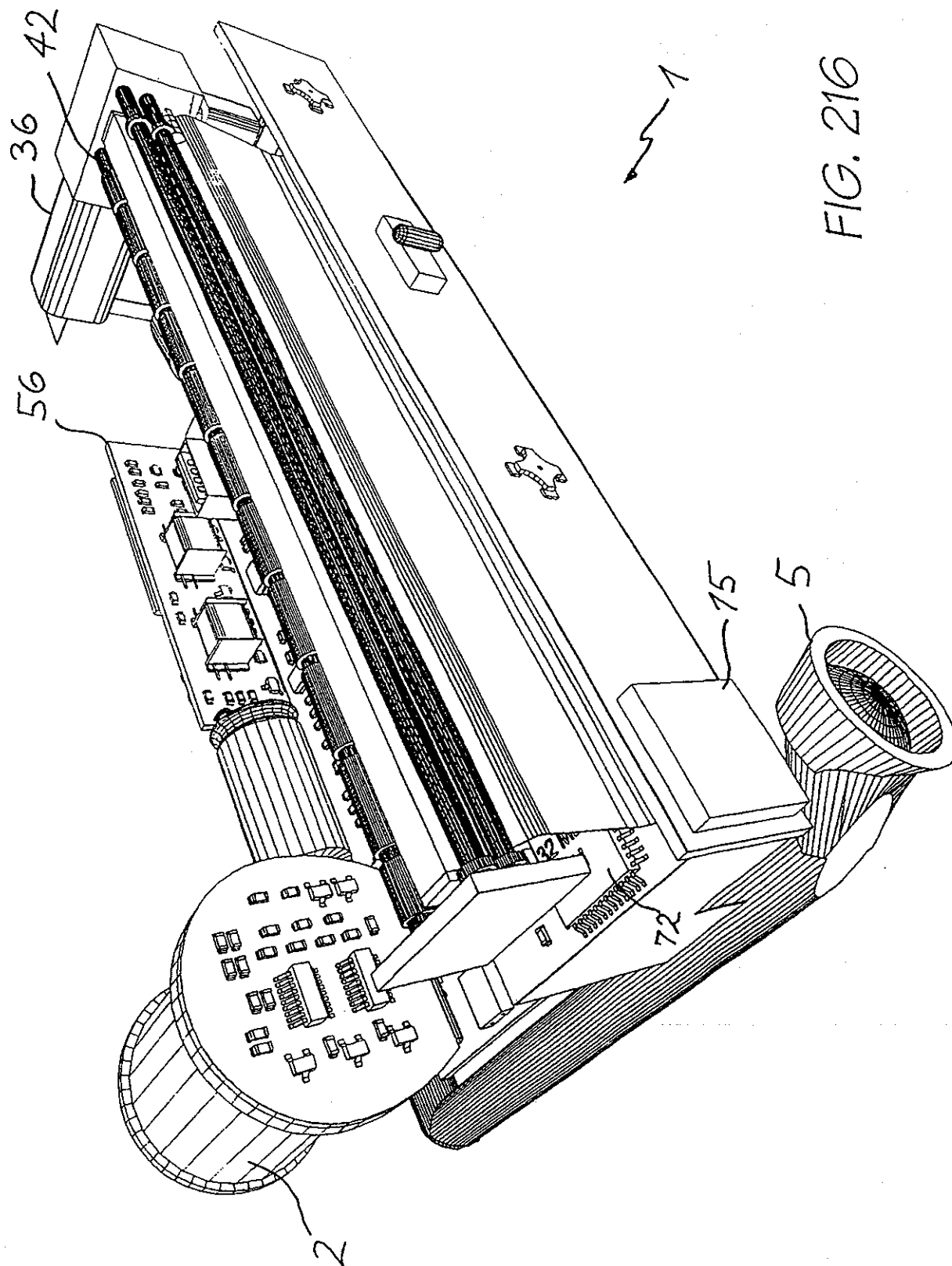
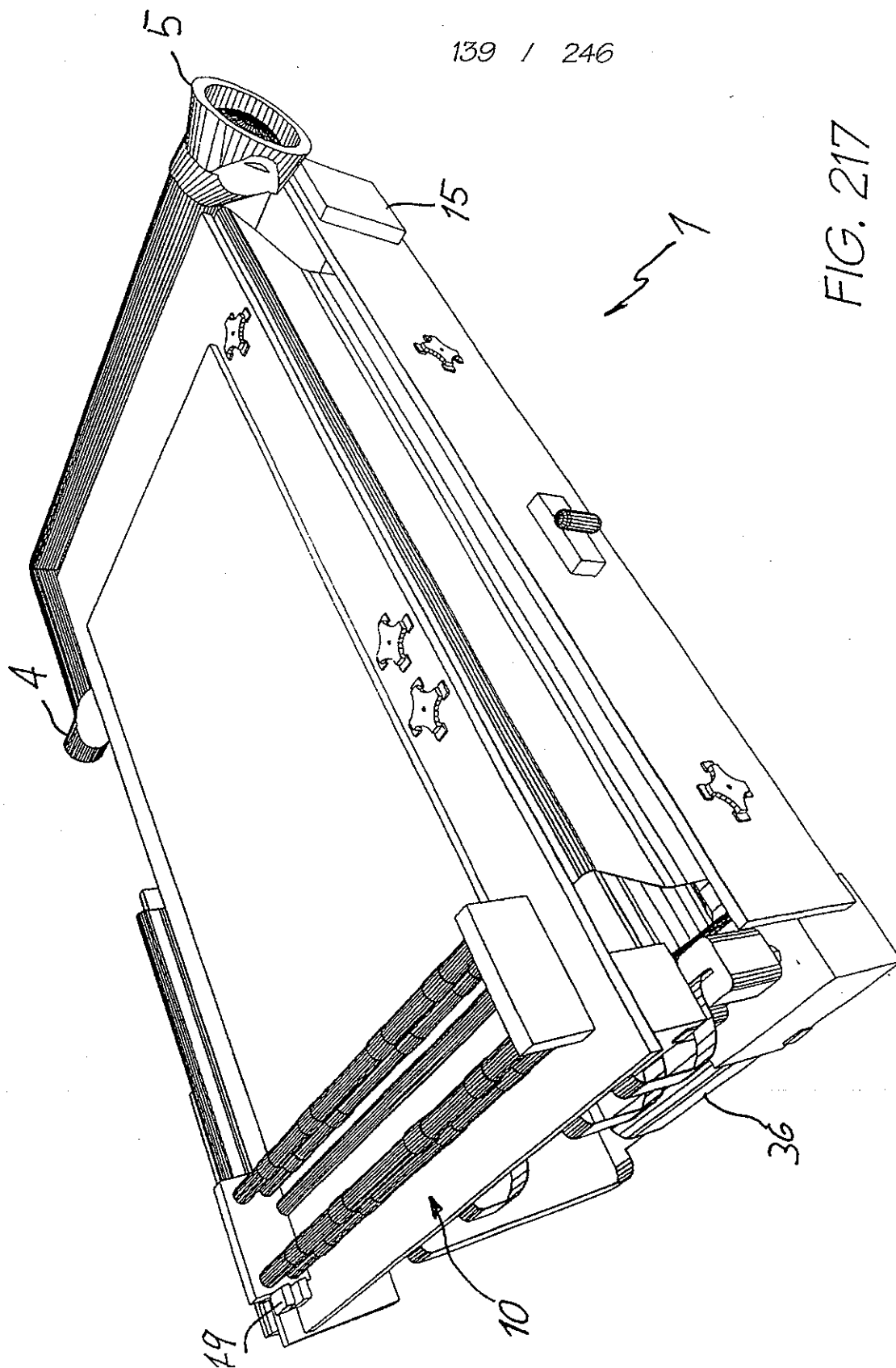


FIG. 216



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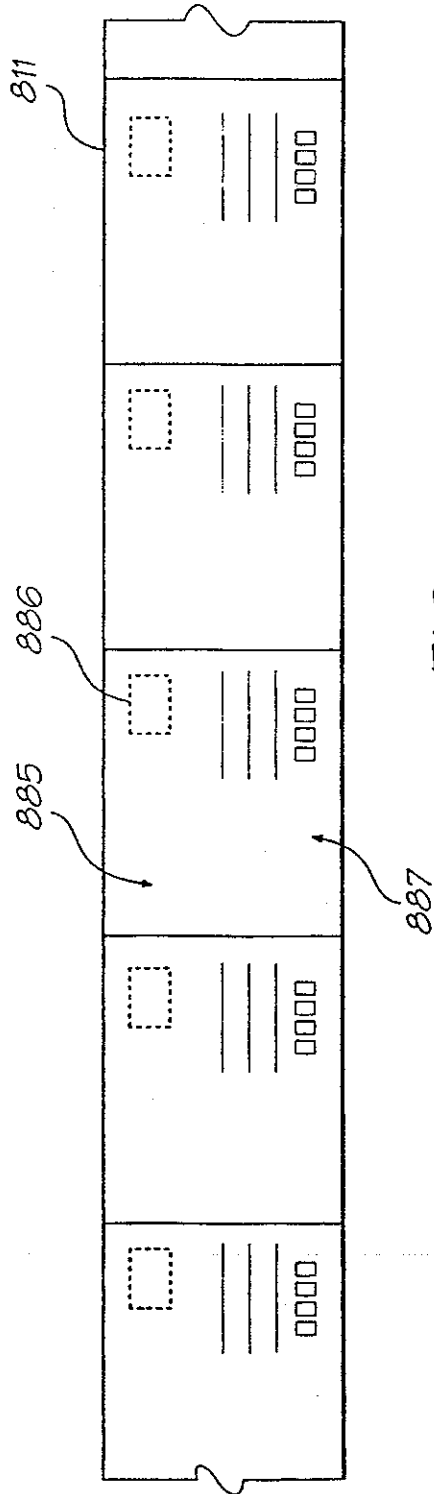


FIG. 218

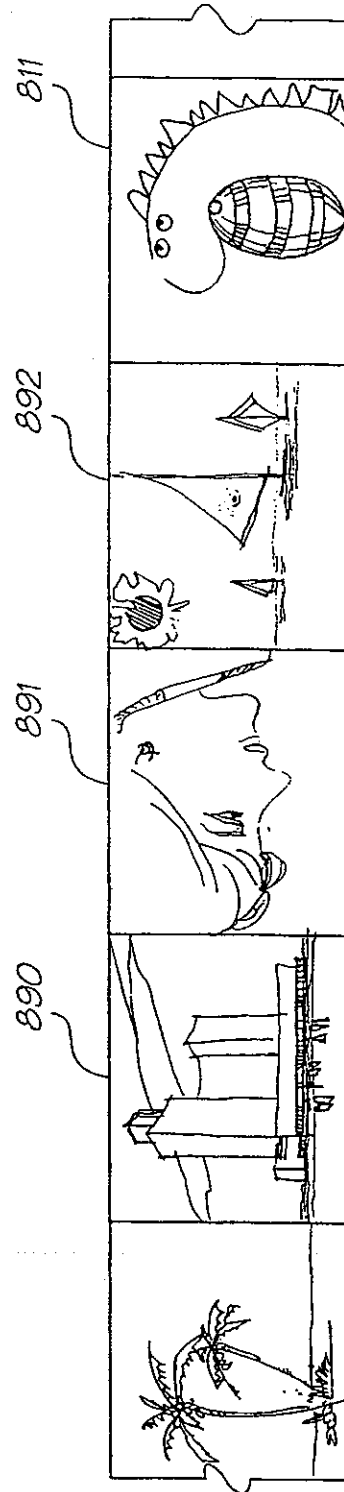


FIG. 219

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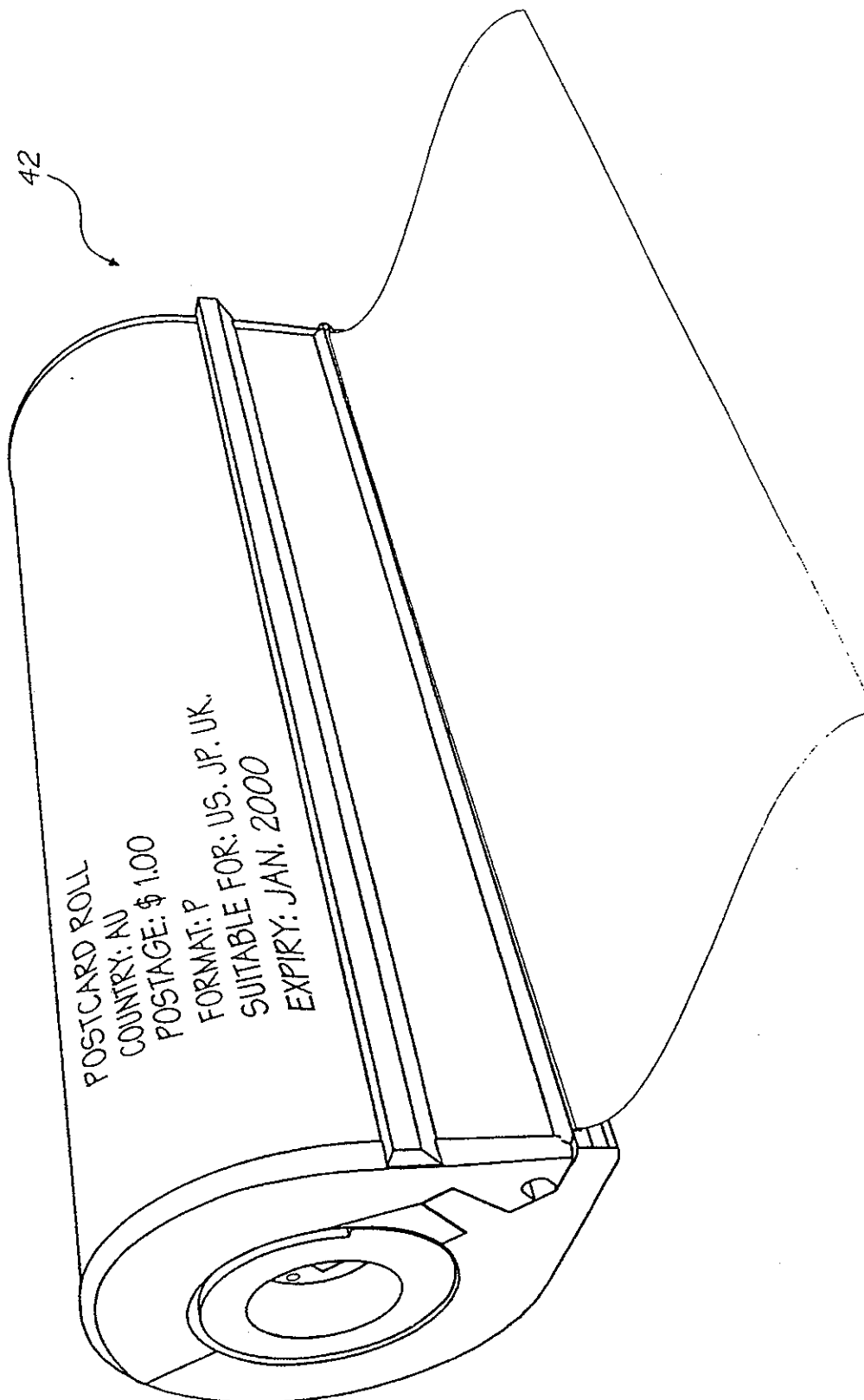


FIG. 220

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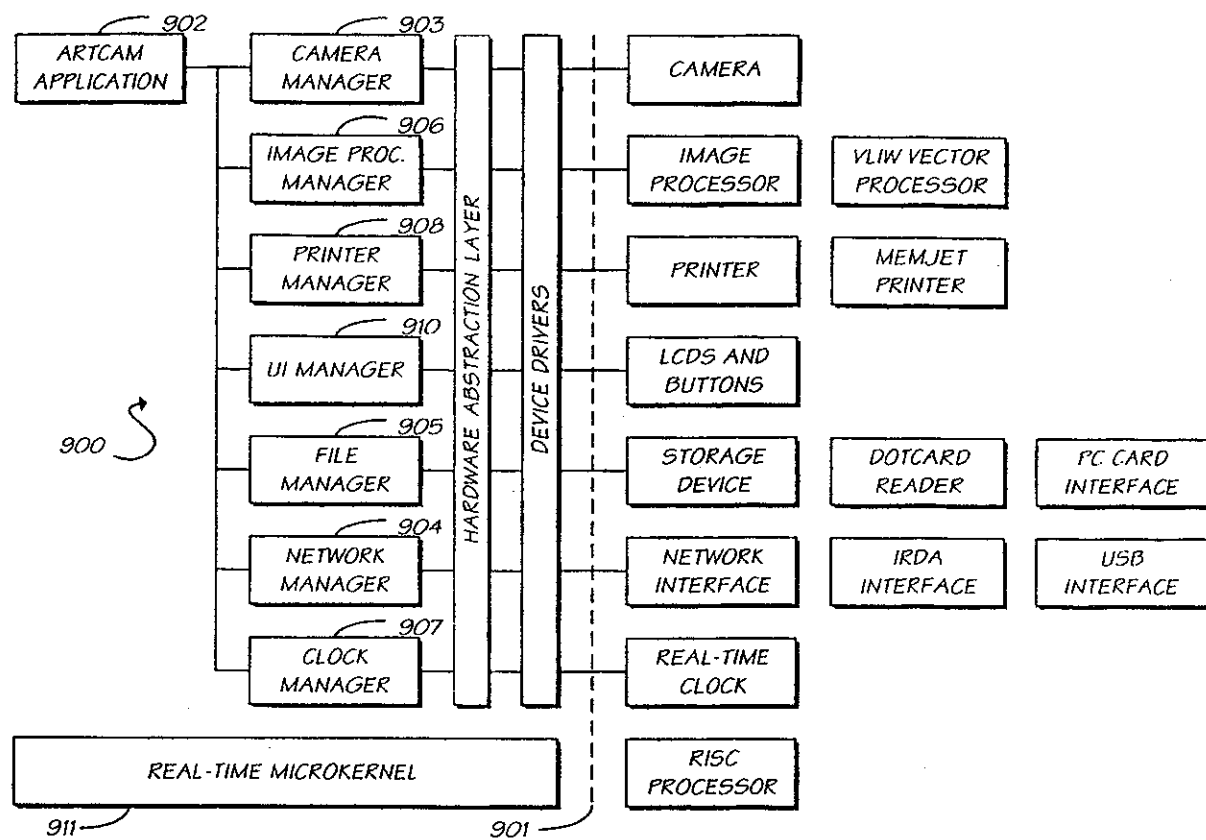
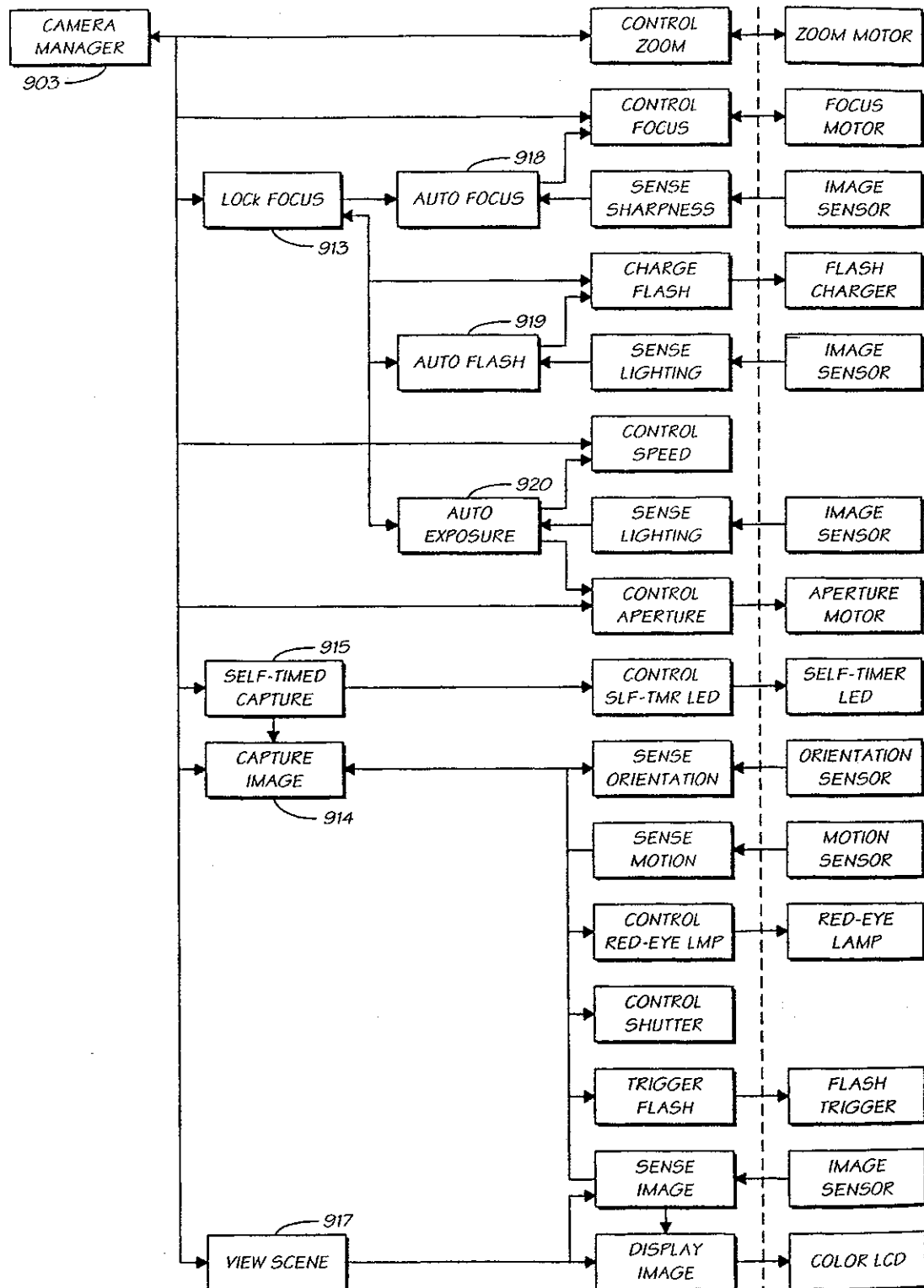


FIG. 221

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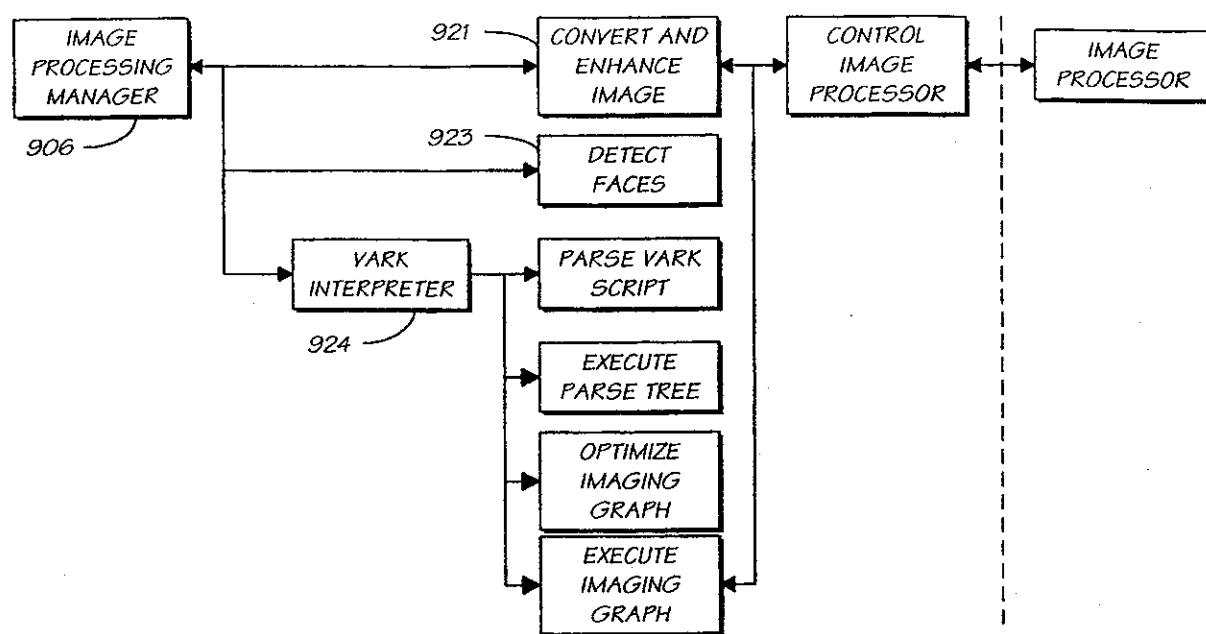


FIG. 223

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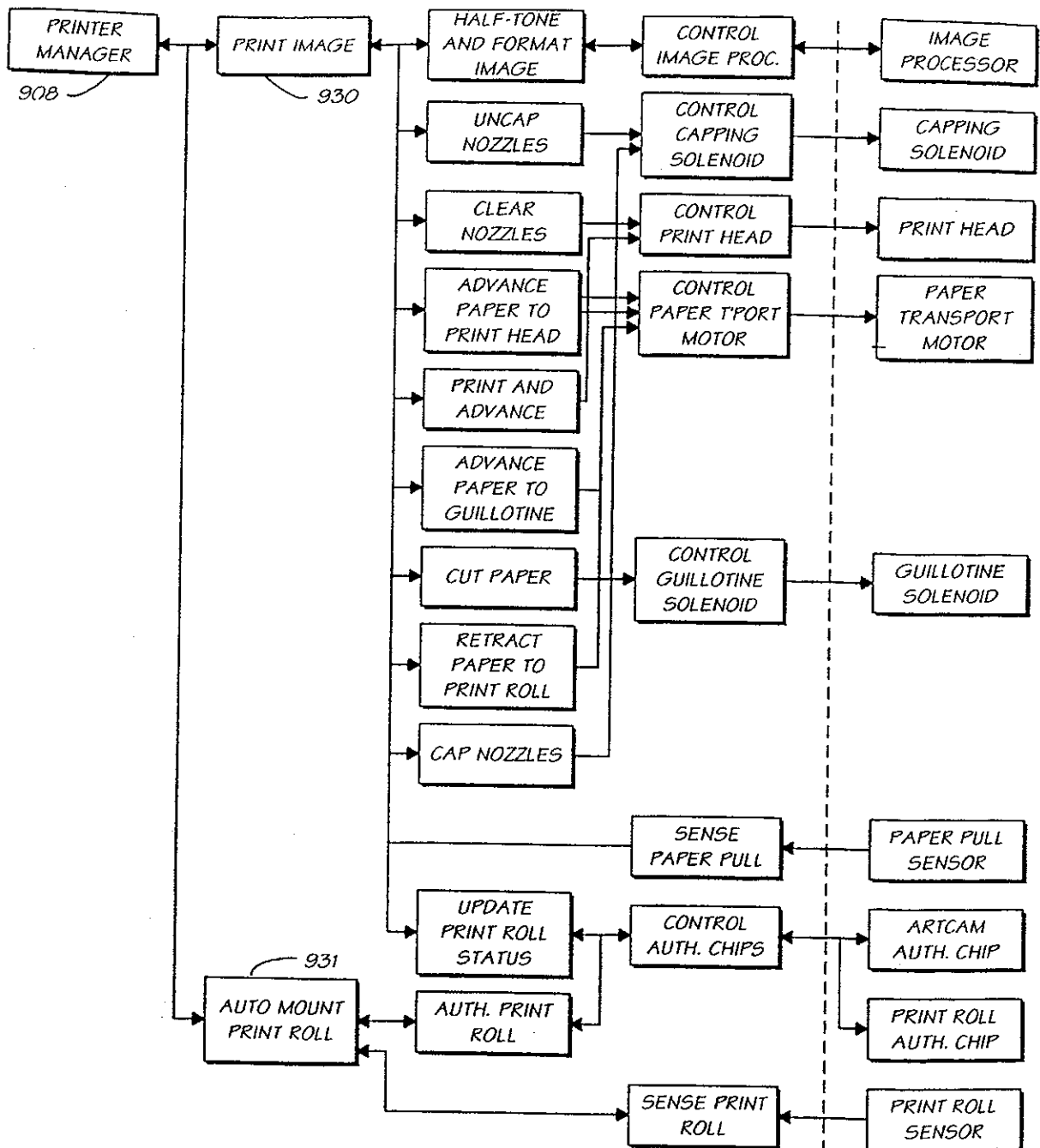


FIG. 224

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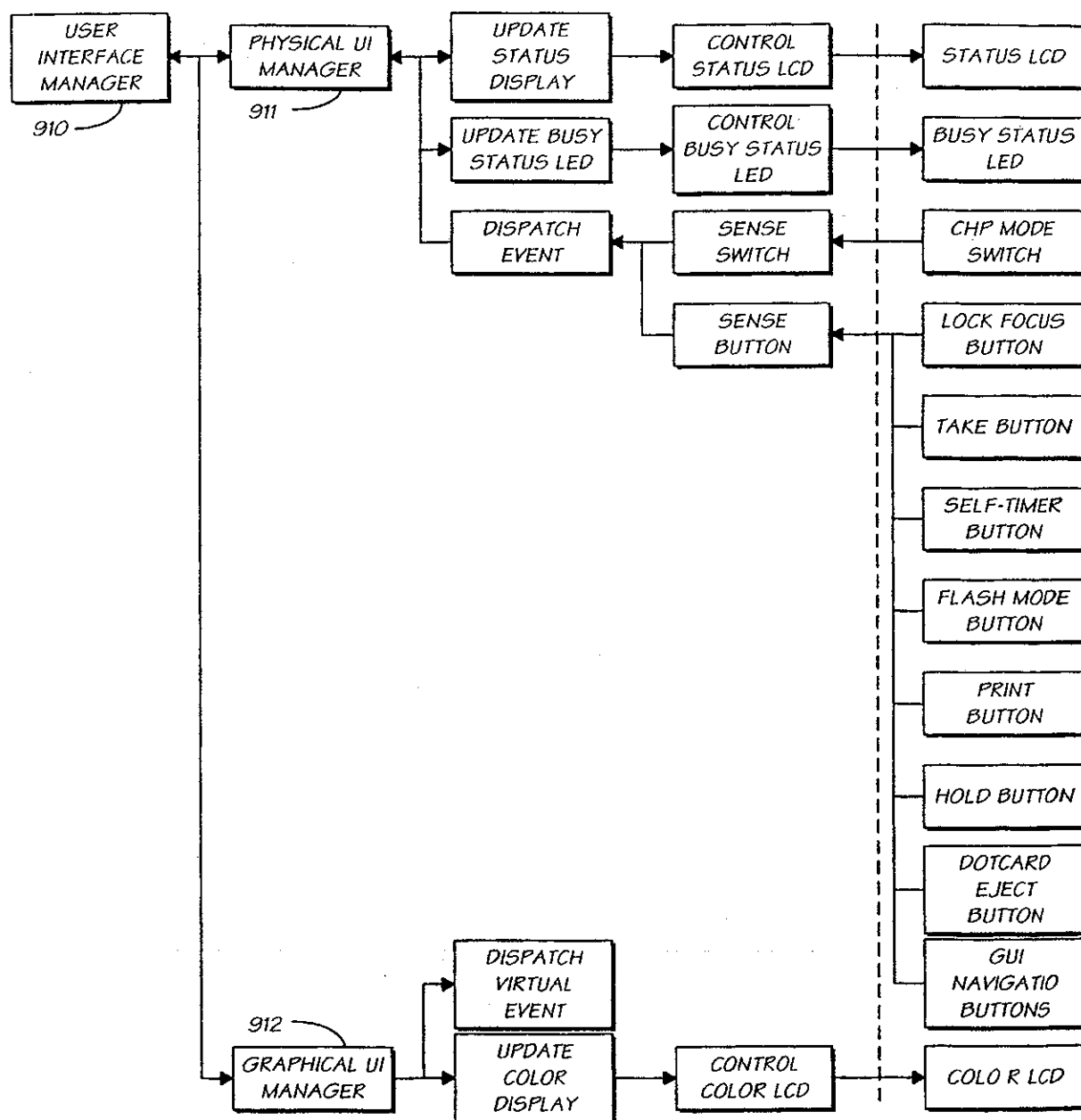


FIG. 225

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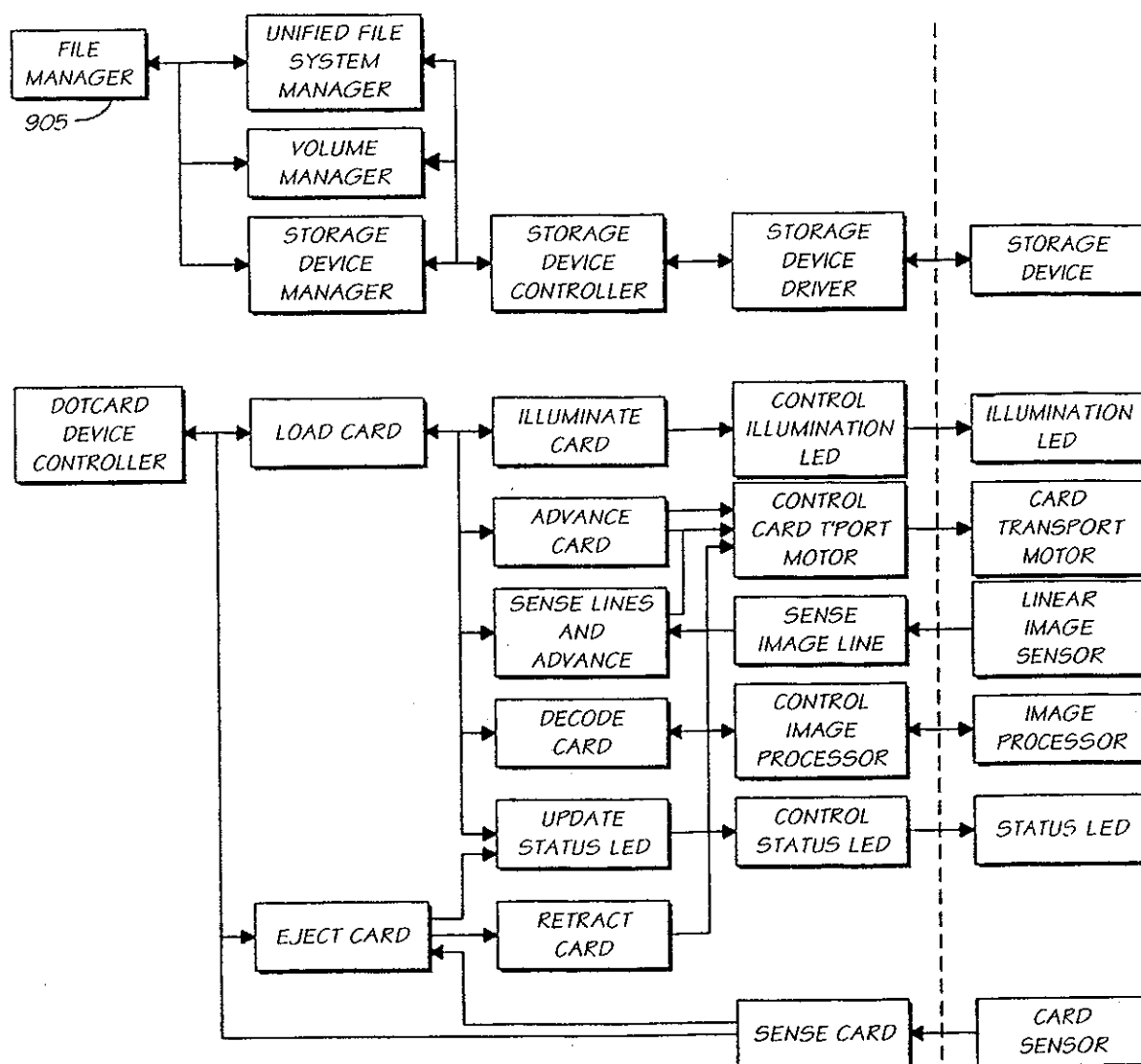
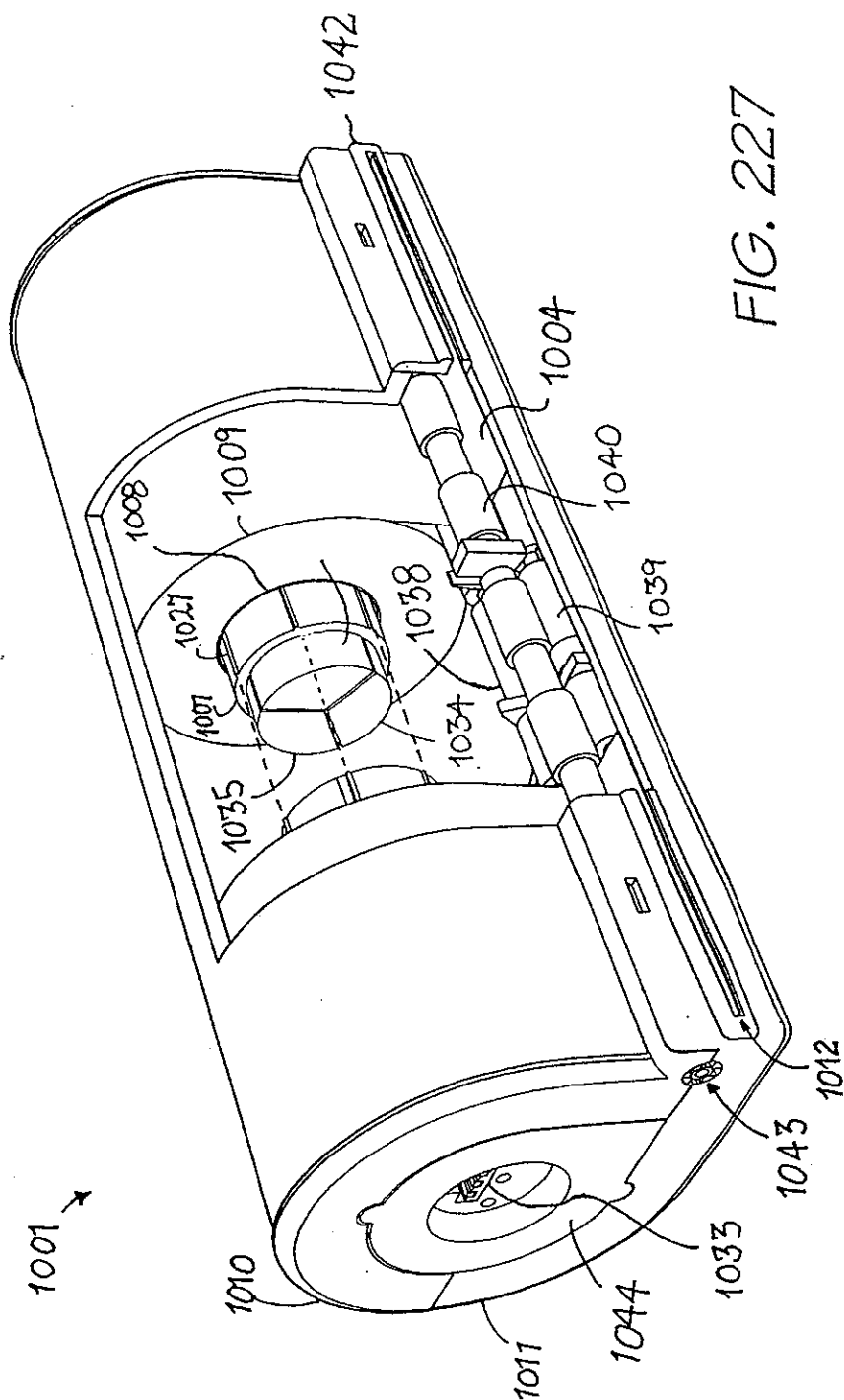


FIG. 226

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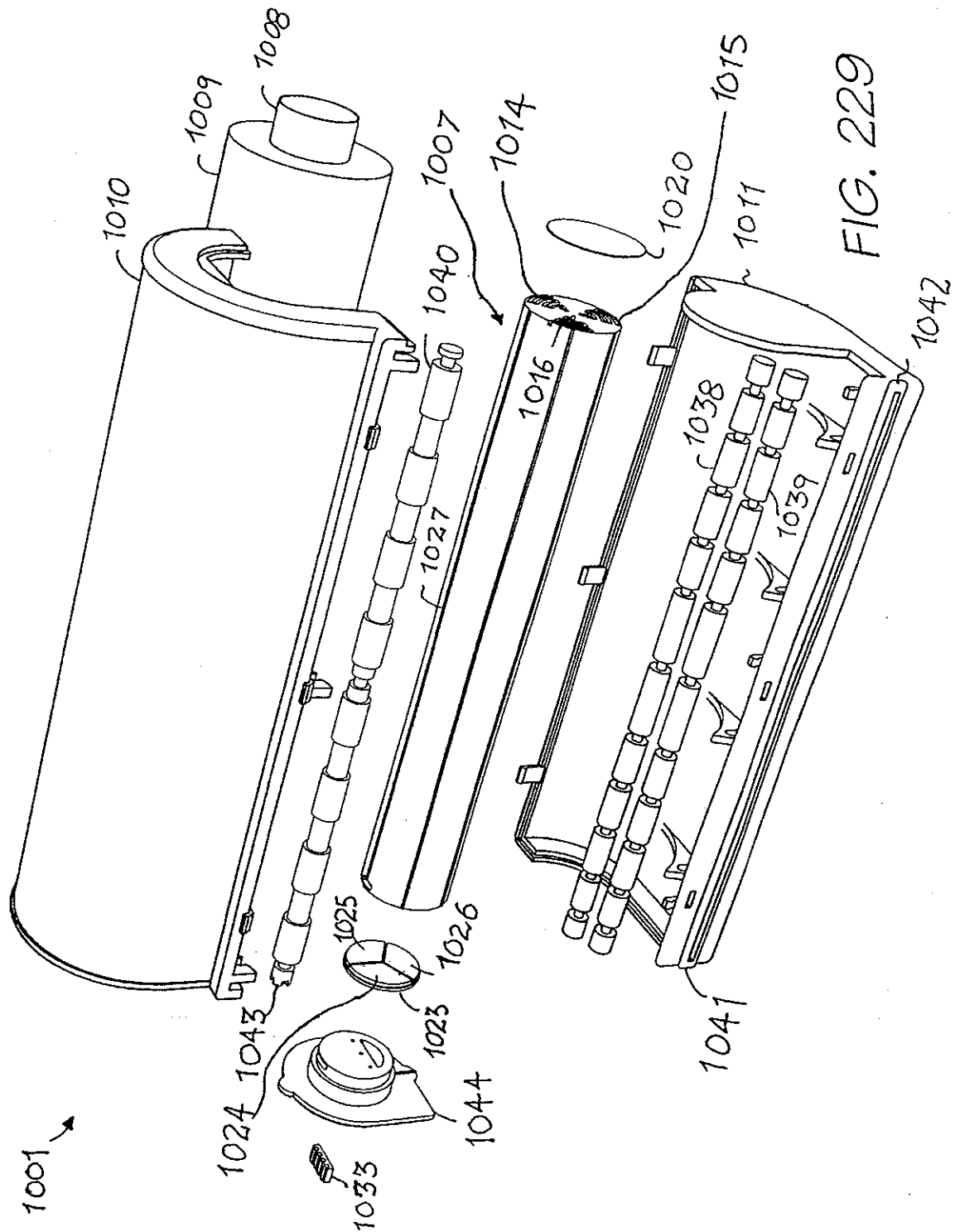
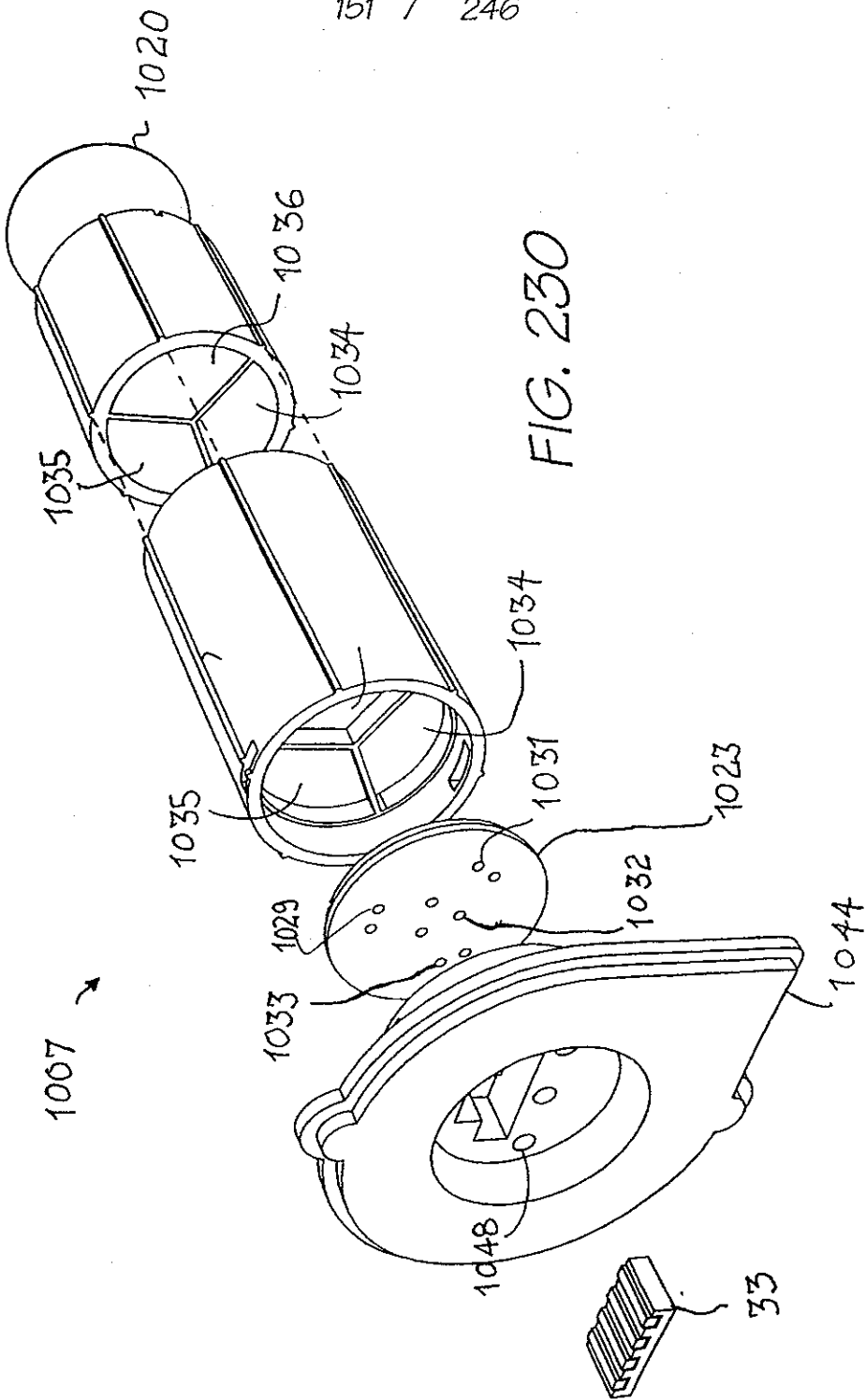


FIG. 229



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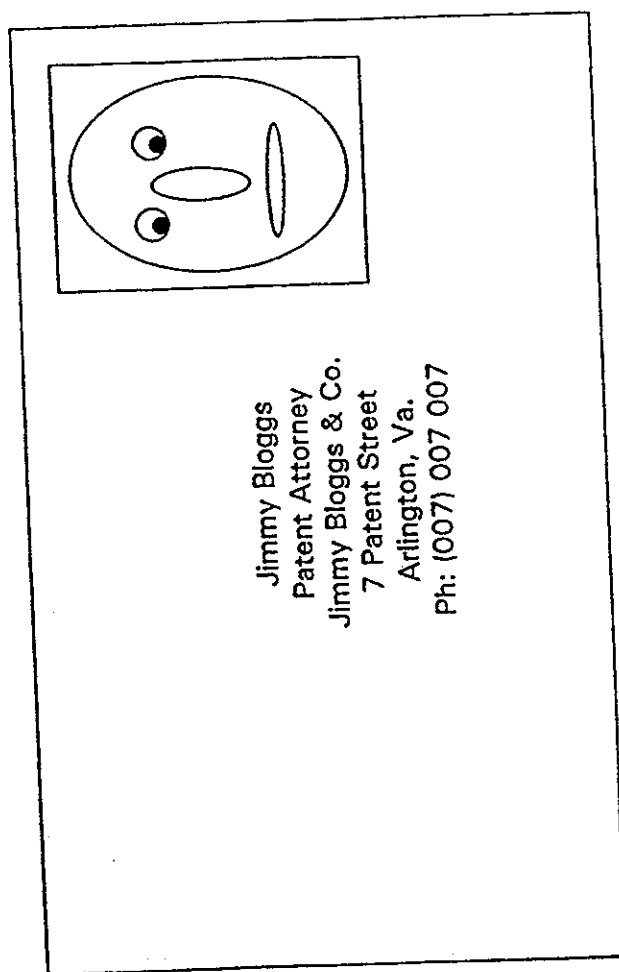


FIG. 232

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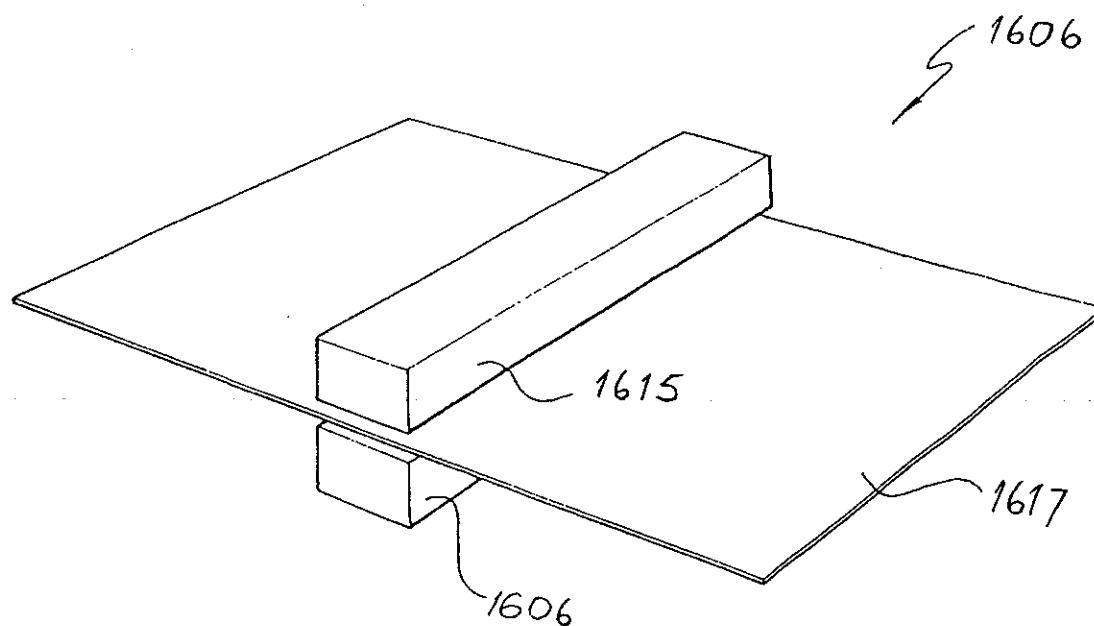
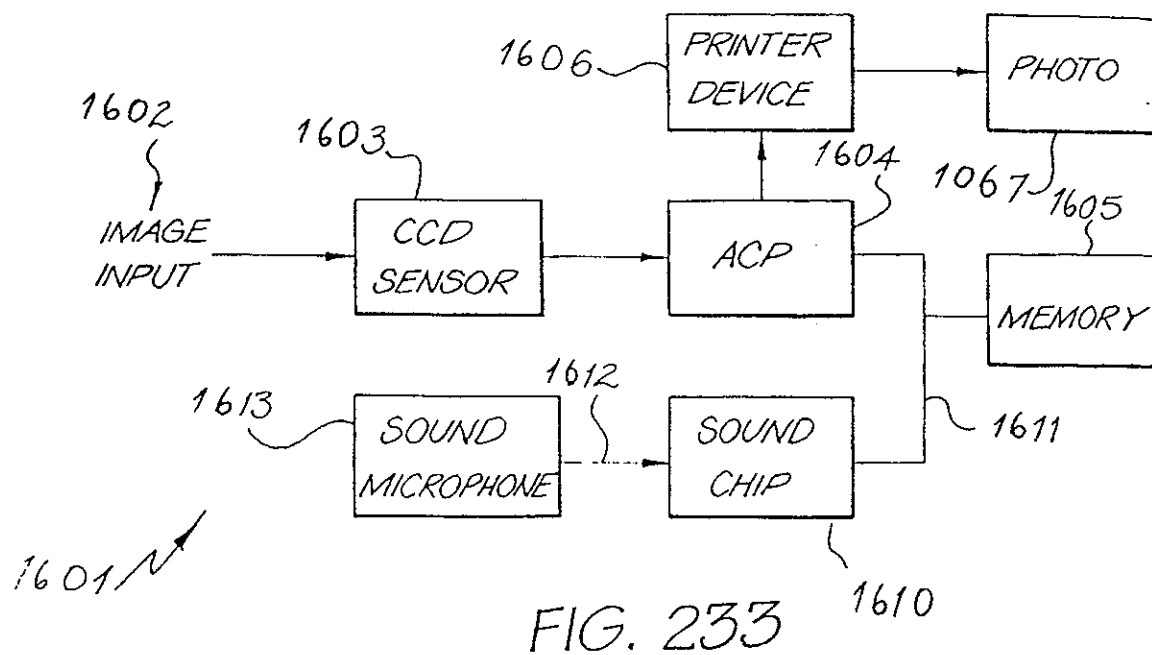


FIG. 234

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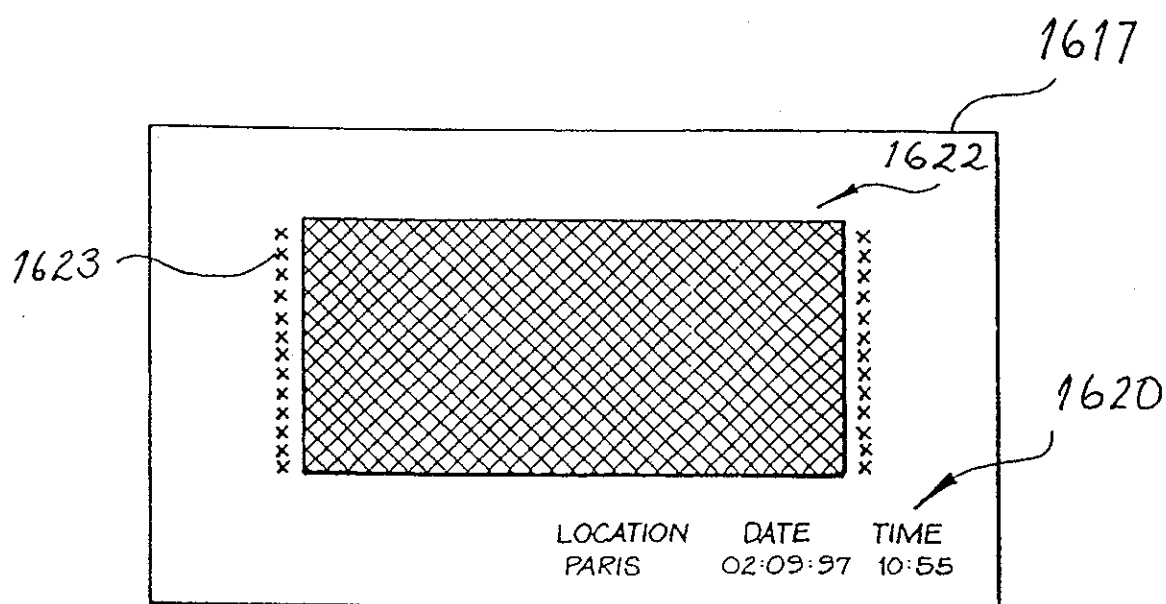


FIG. 235

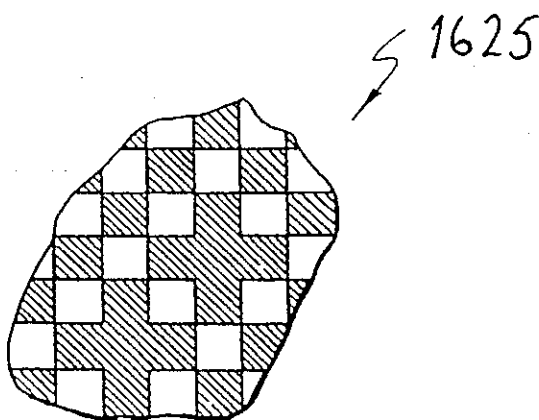
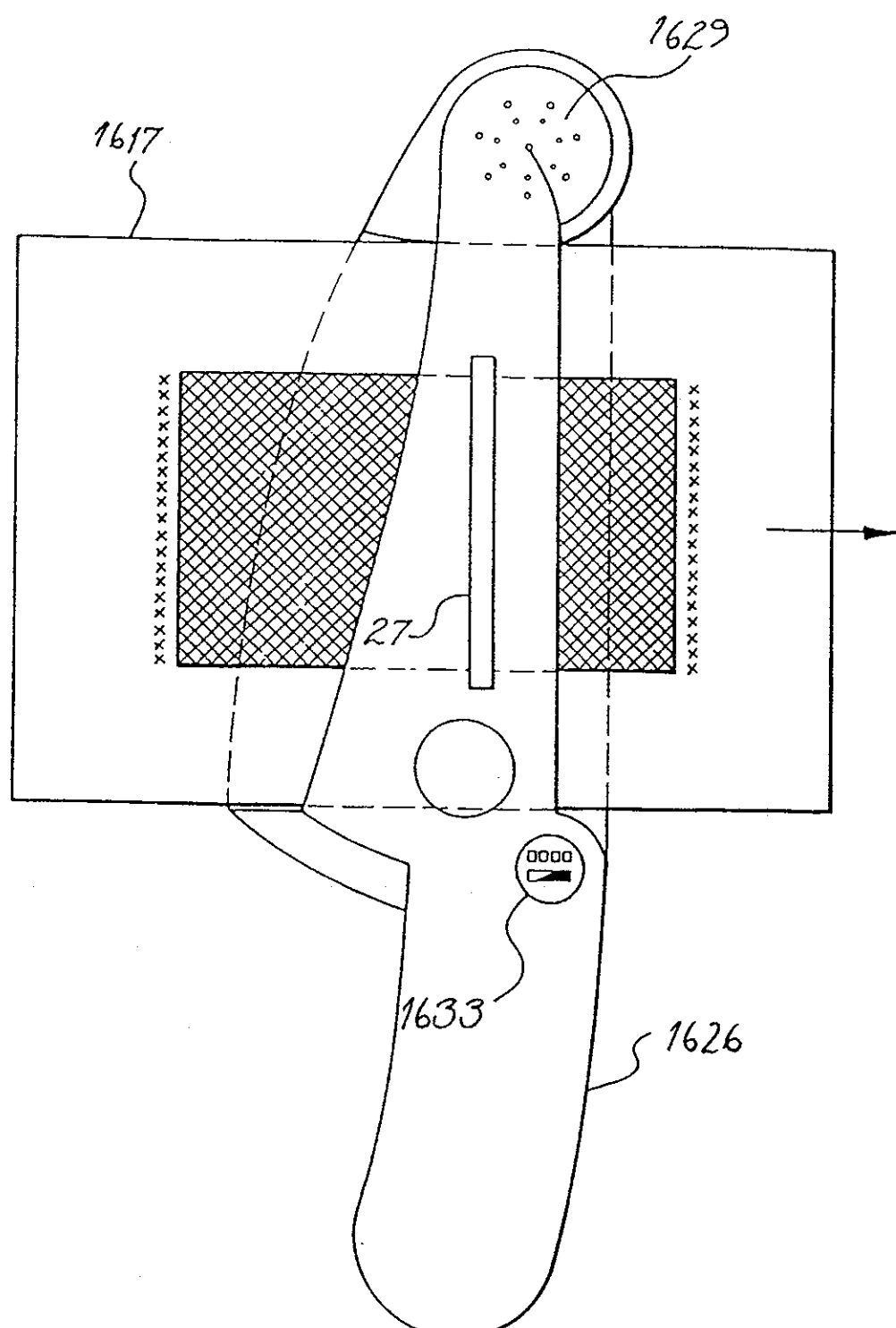


FIG. 236

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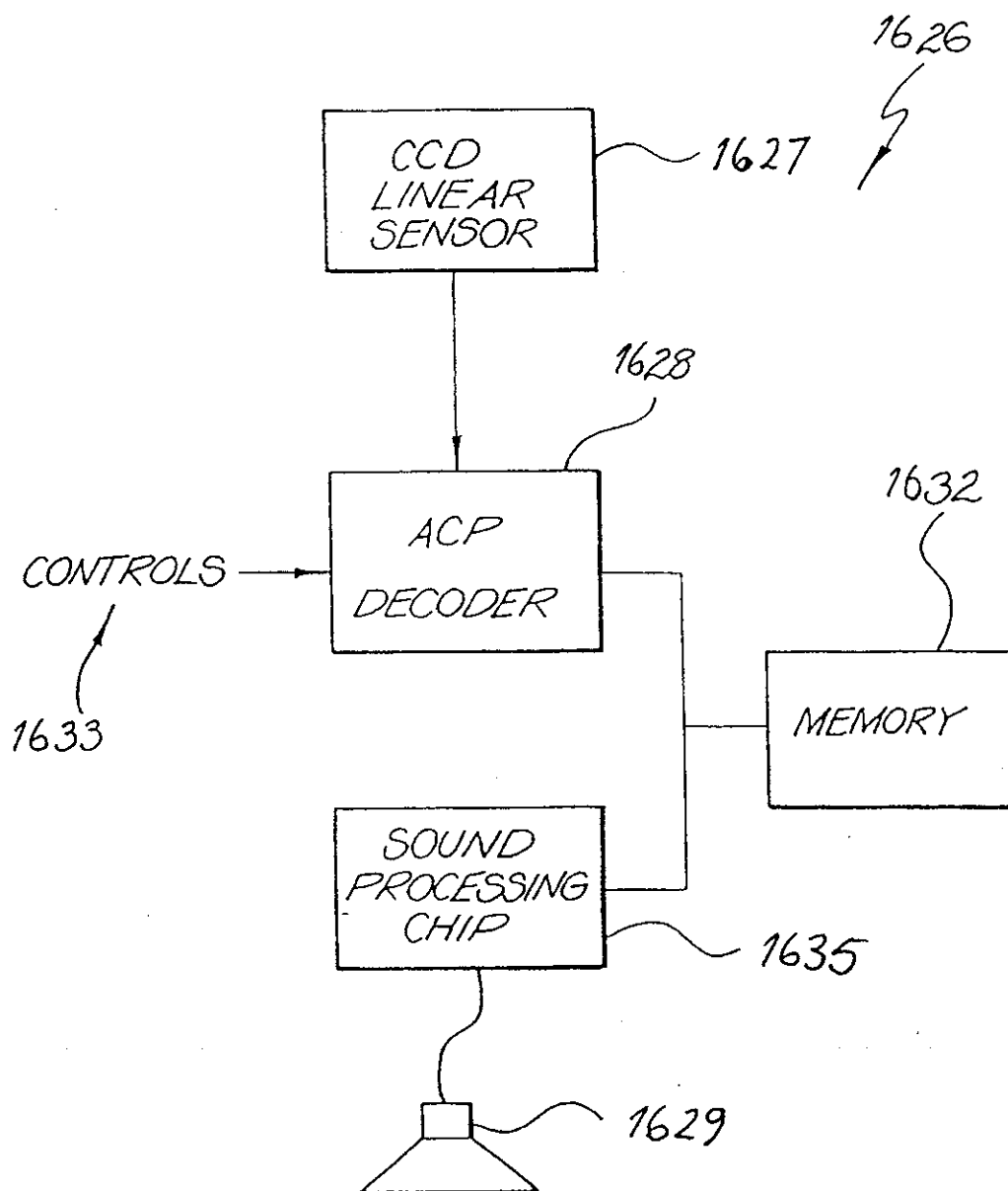


FIG. 238

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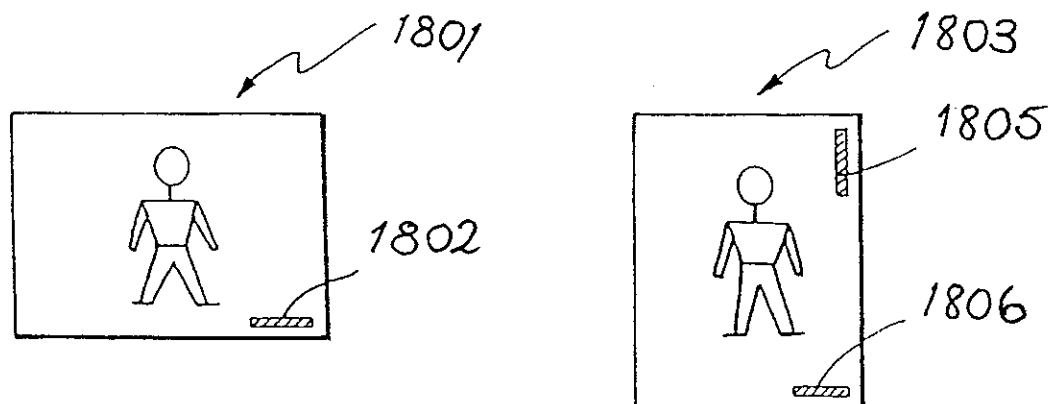


FIG. 239

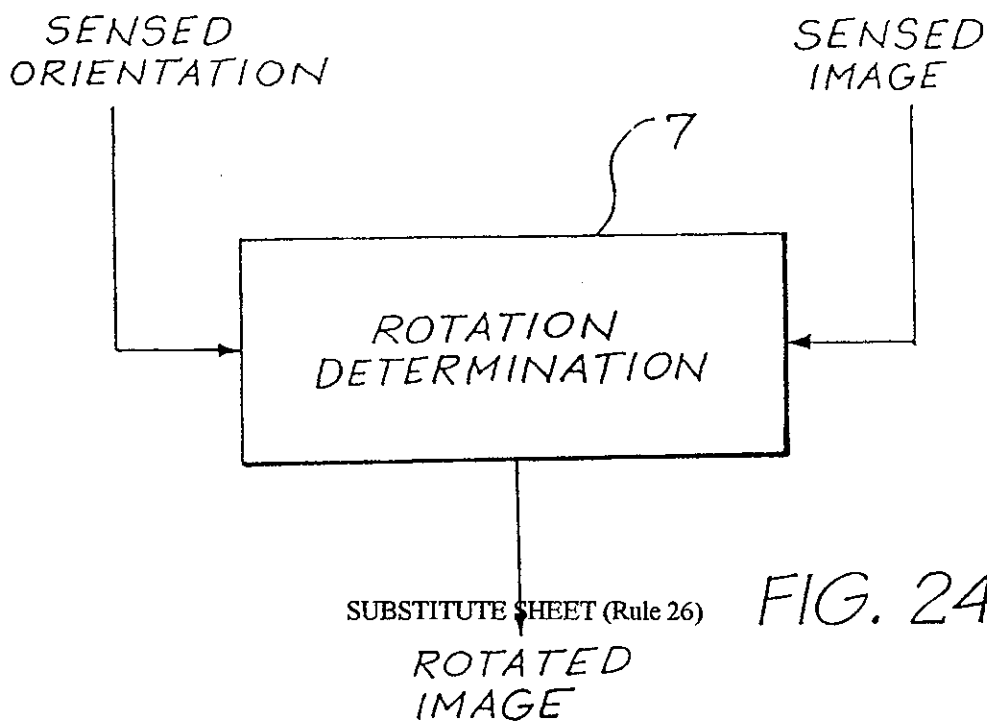


FIG. 240

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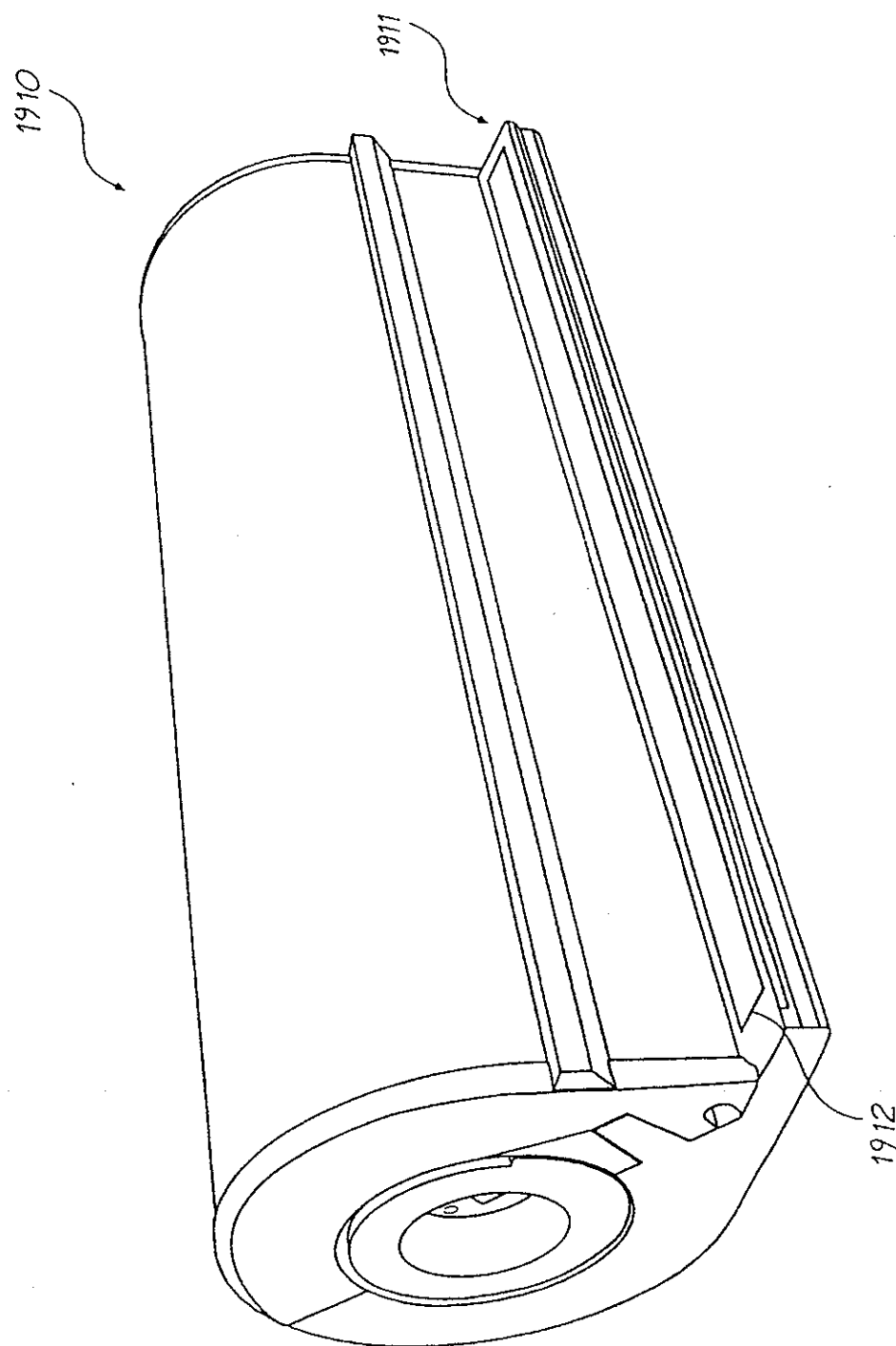


FIG. 241

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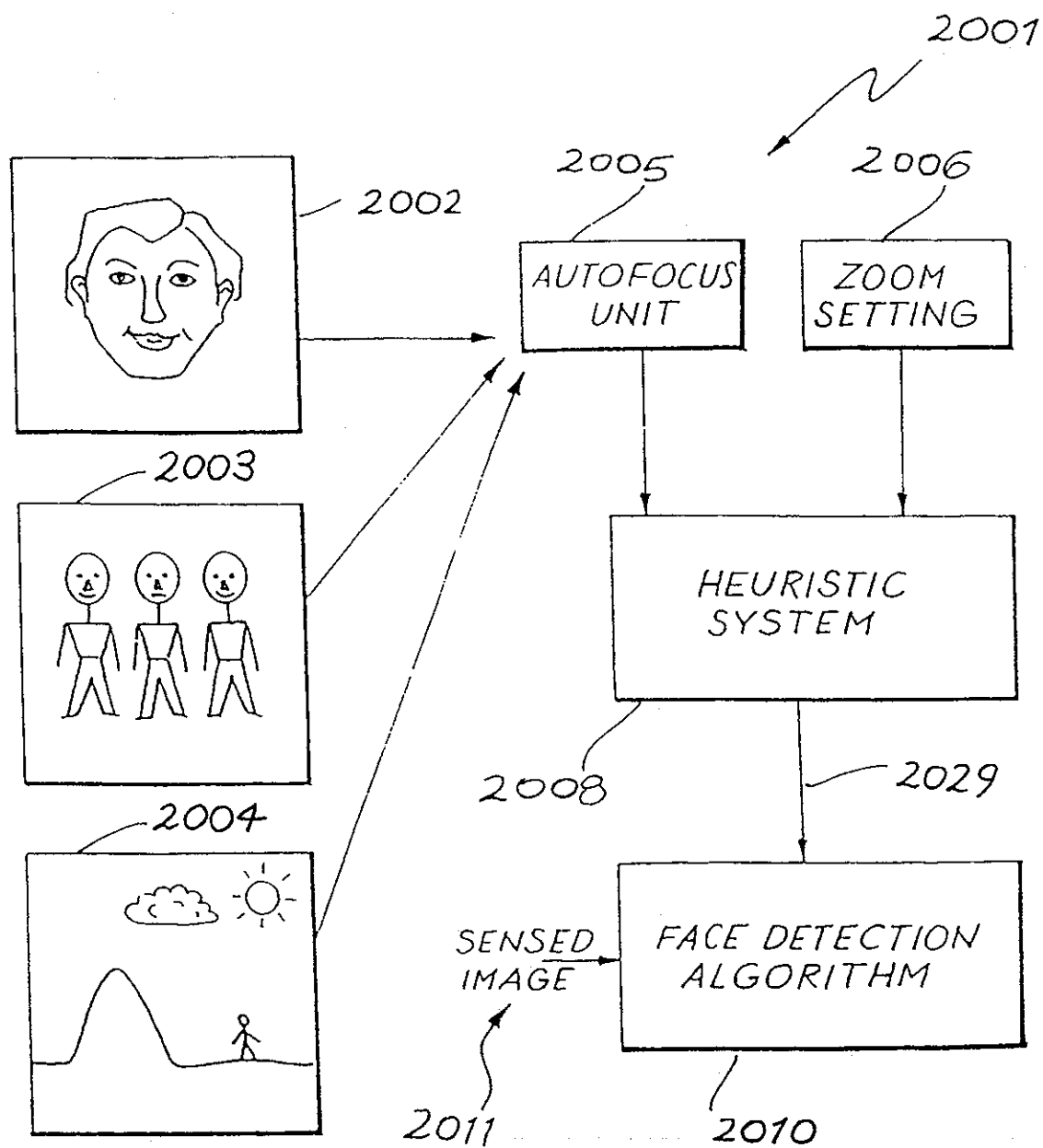


FIG. 242

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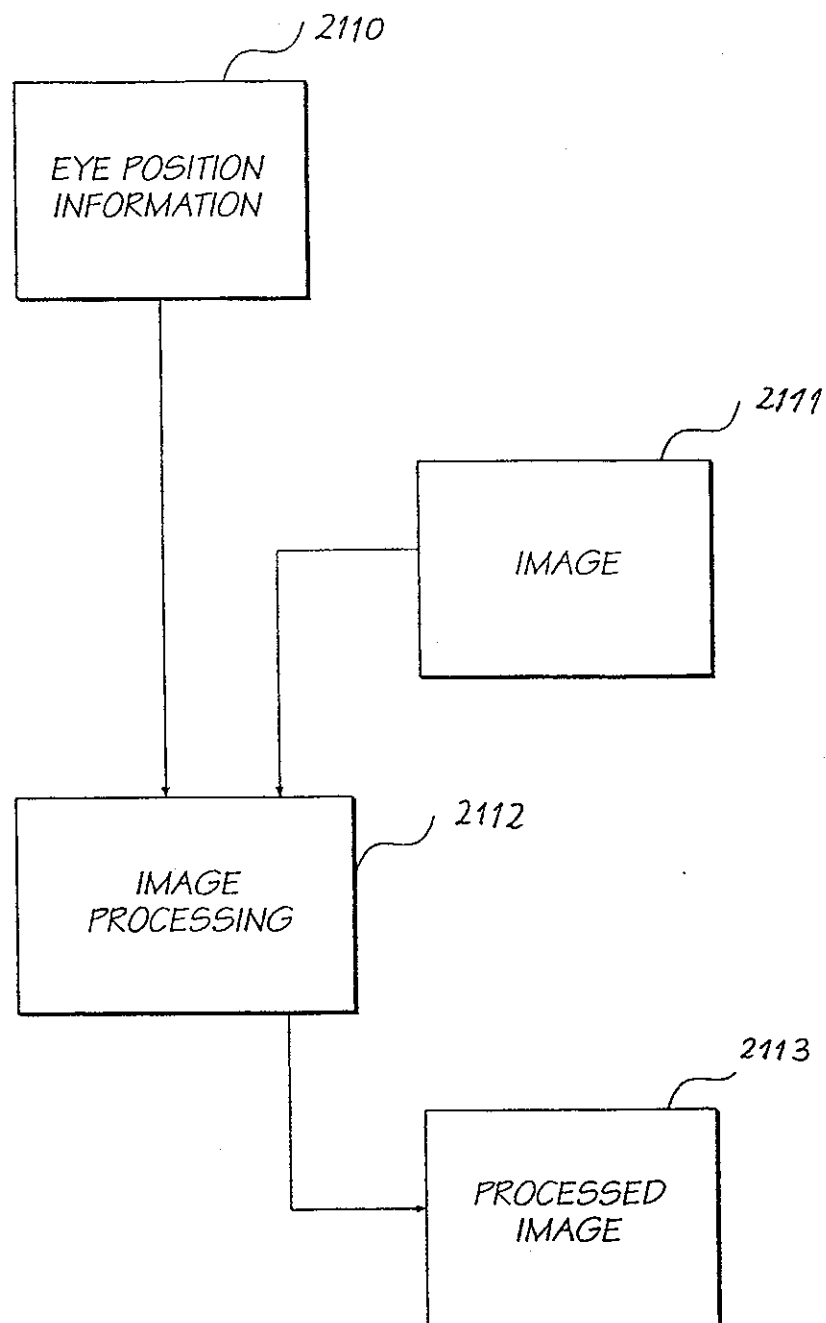


FIG. 243

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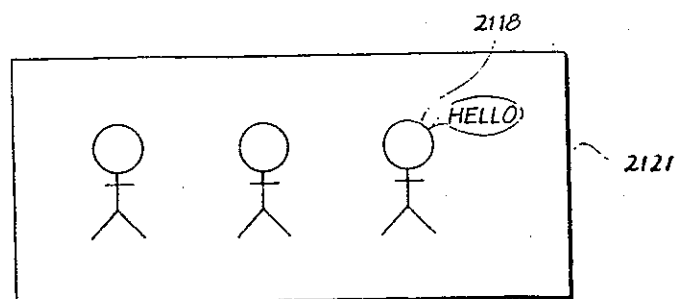
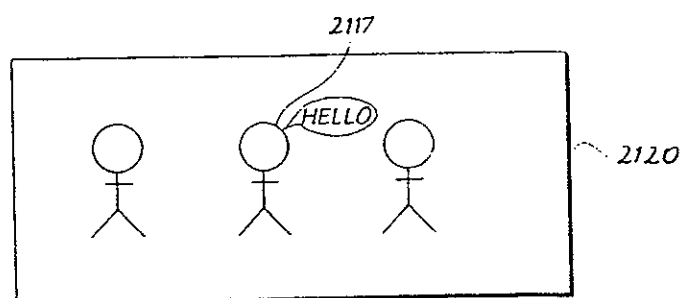
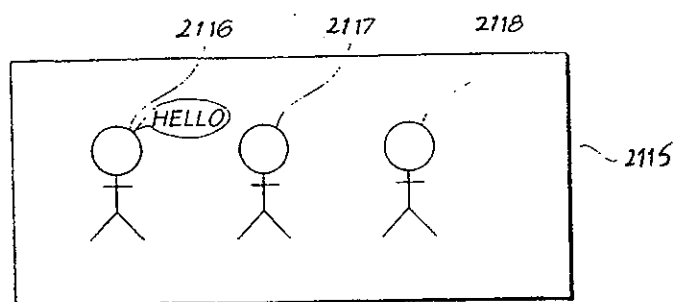


FIG. 244

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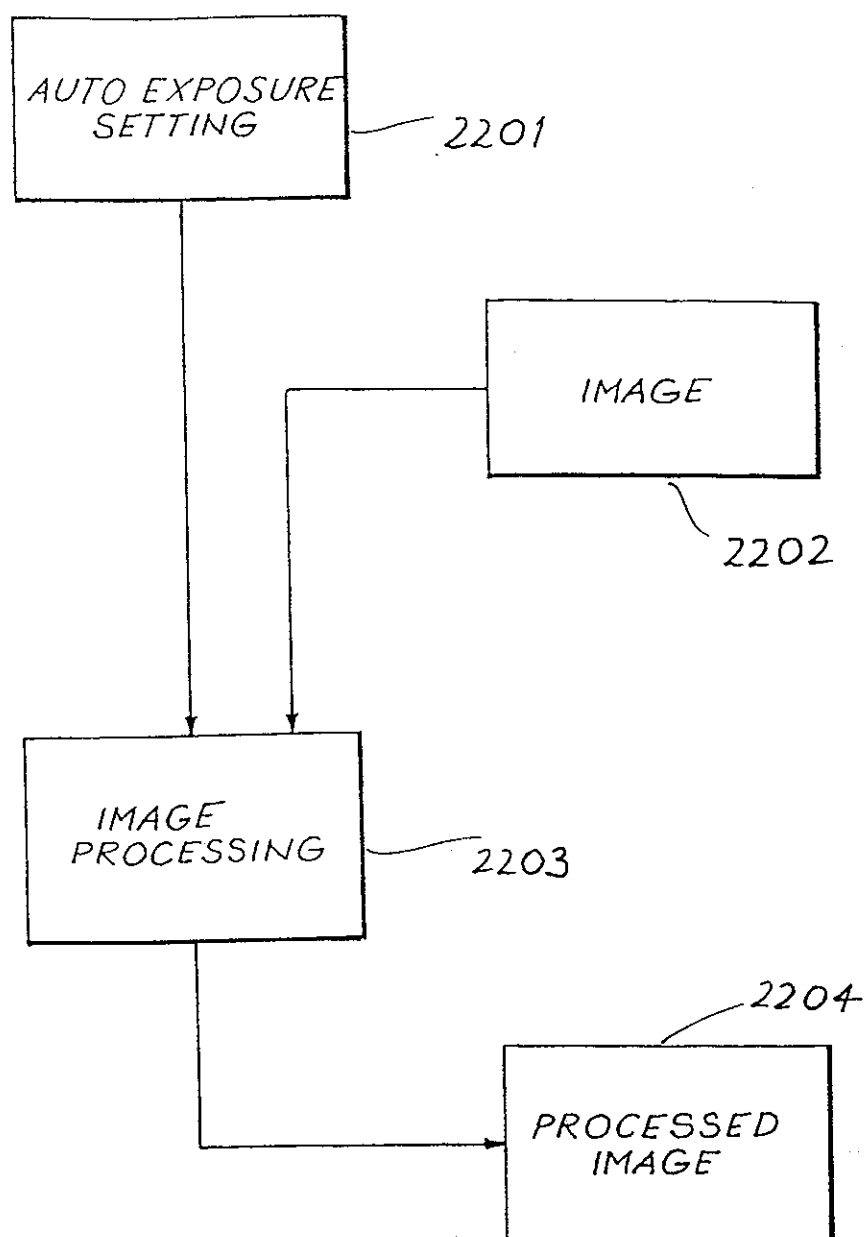


FIG. 245

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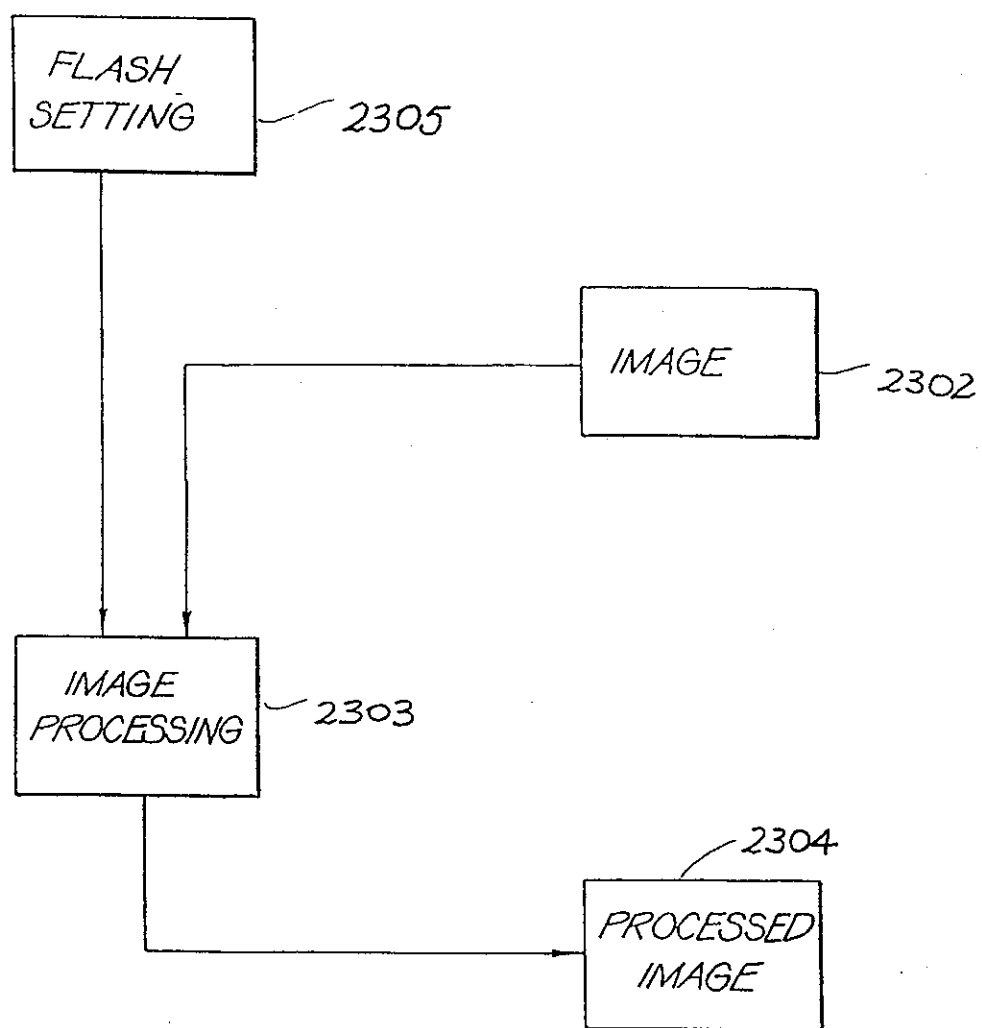
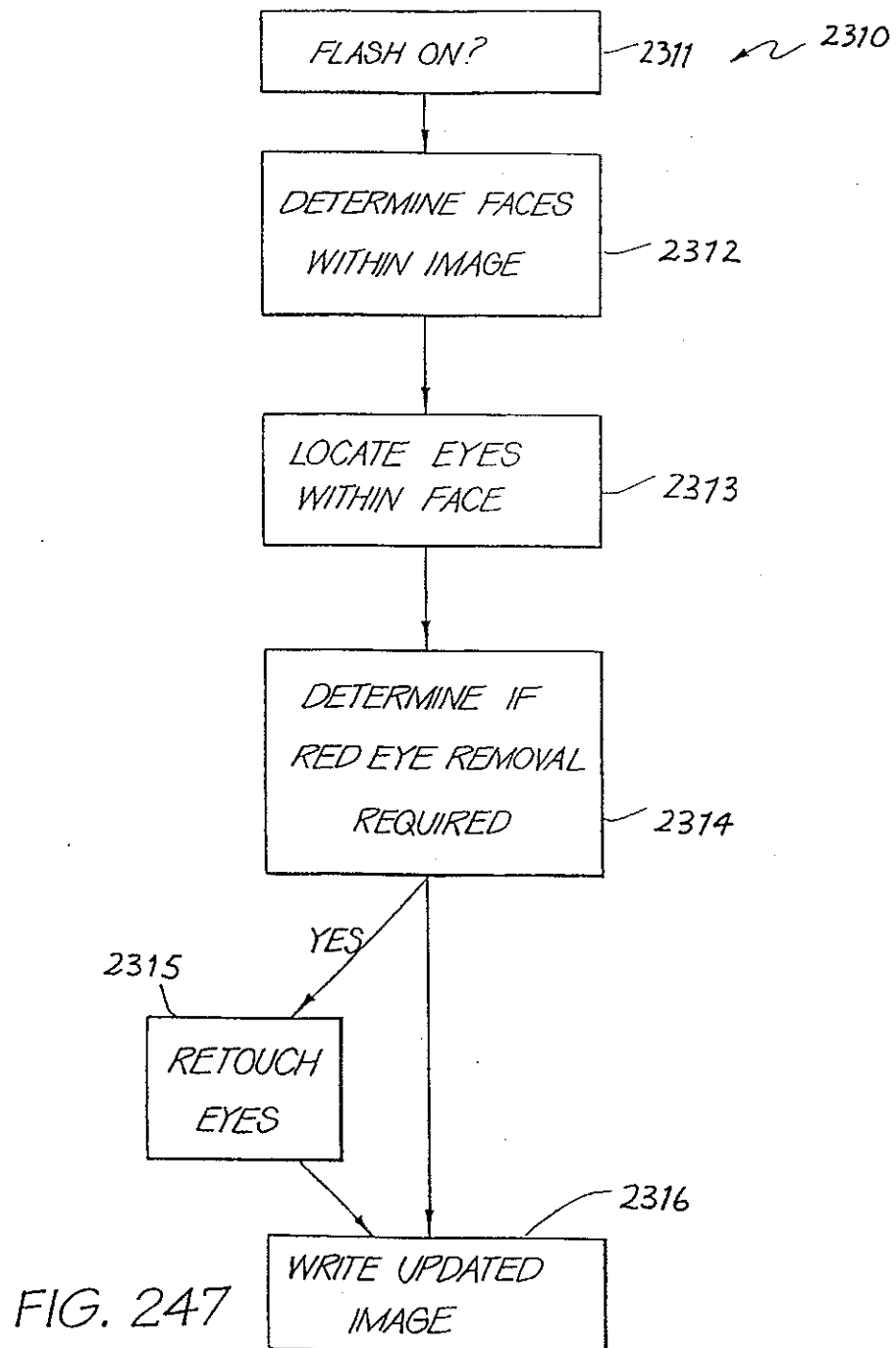


FIG. 246

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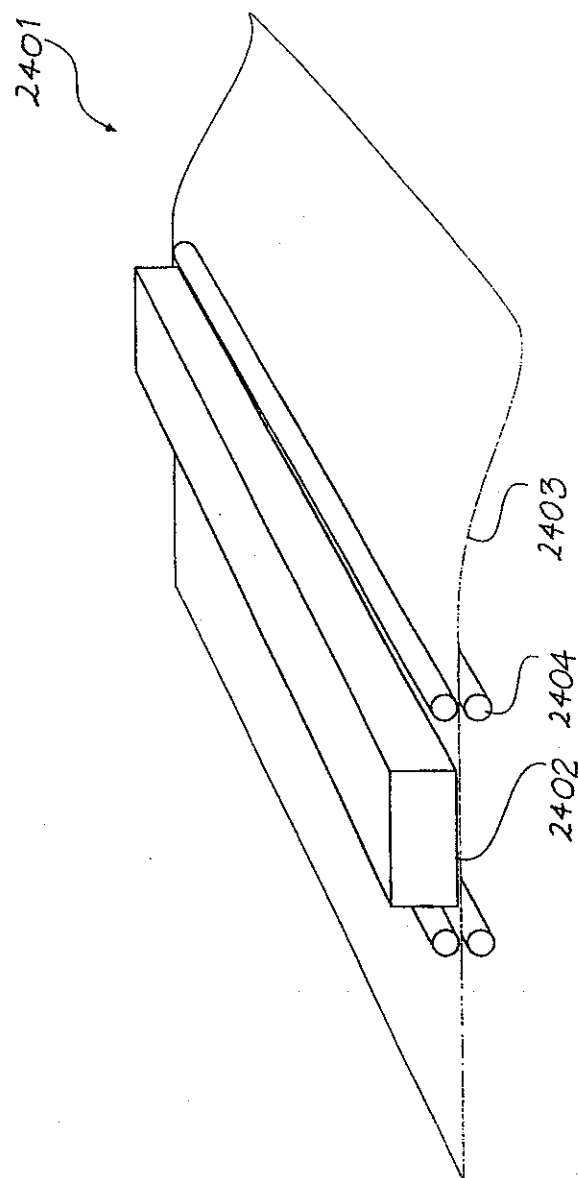


FIG. 248

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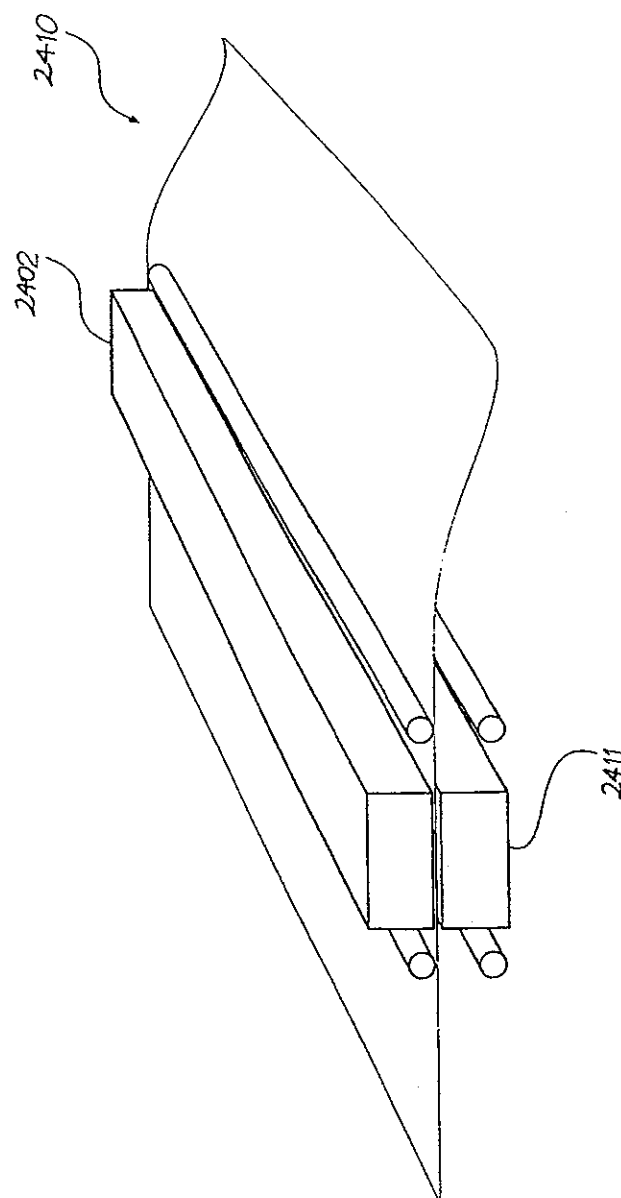


FIG. 249

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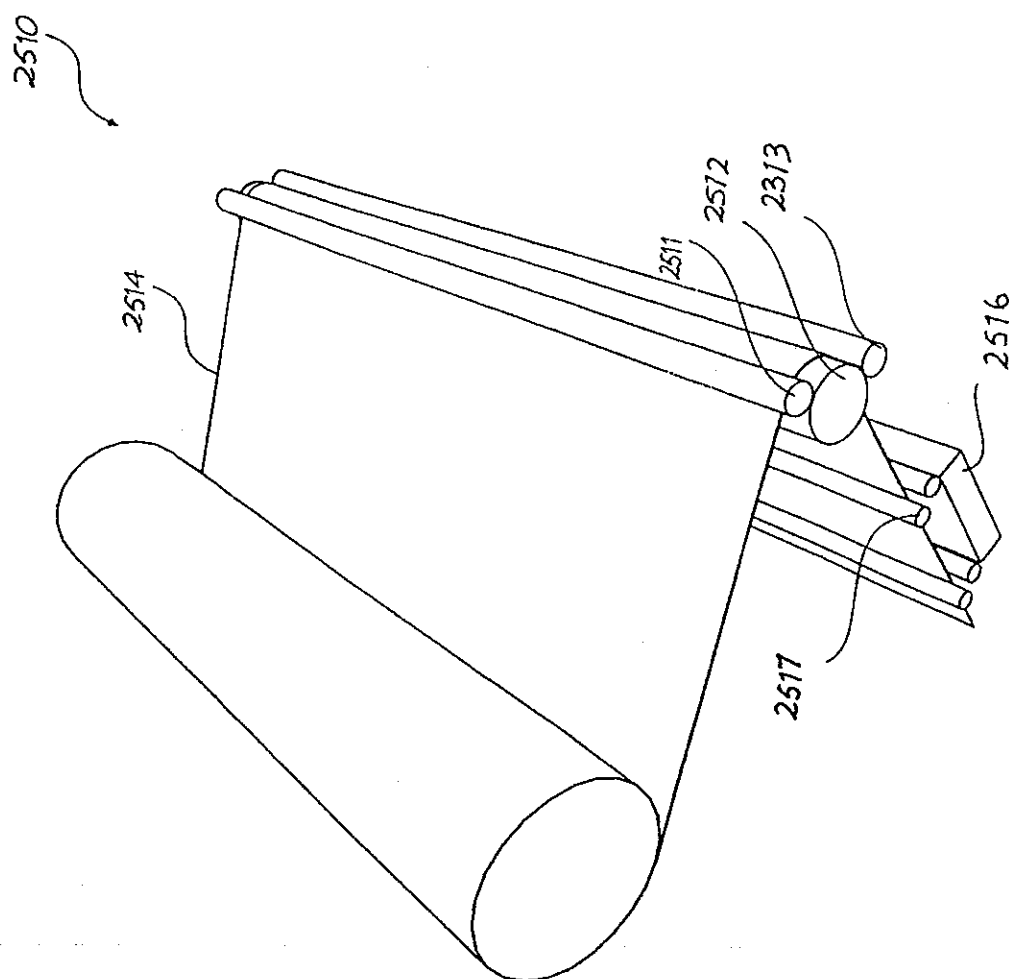


FIG. 250

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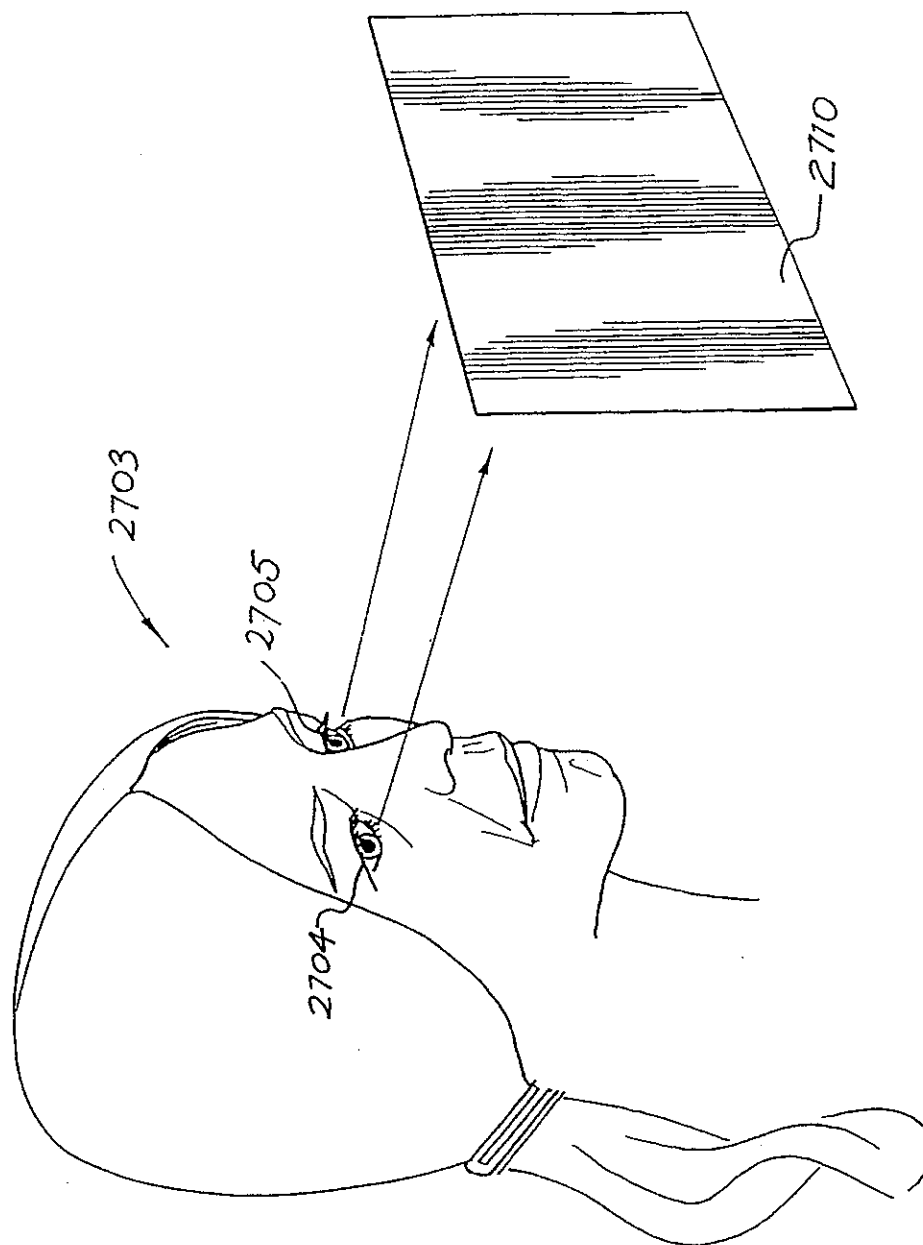


FIG. 251

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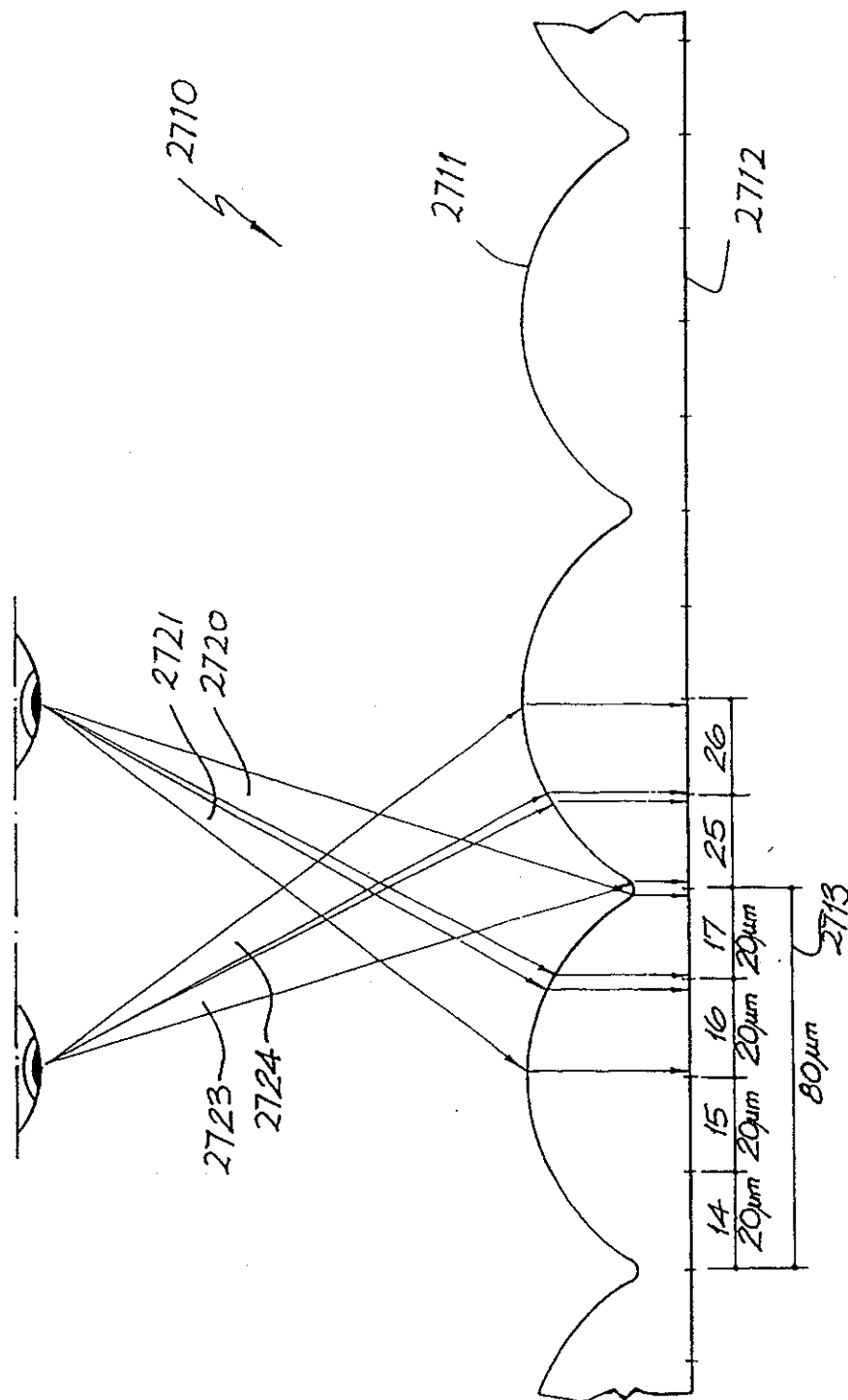


FIG. 252

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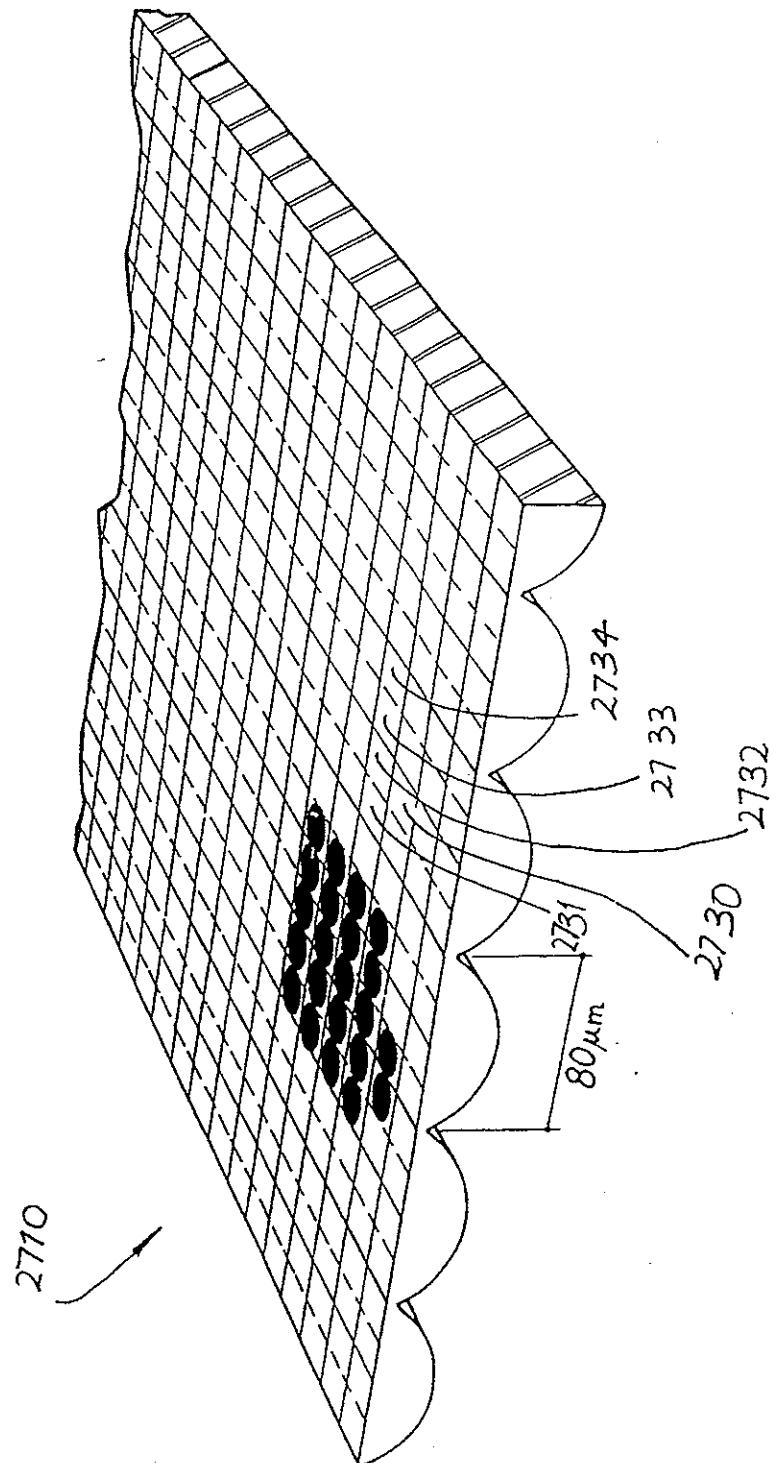


FIG. 253

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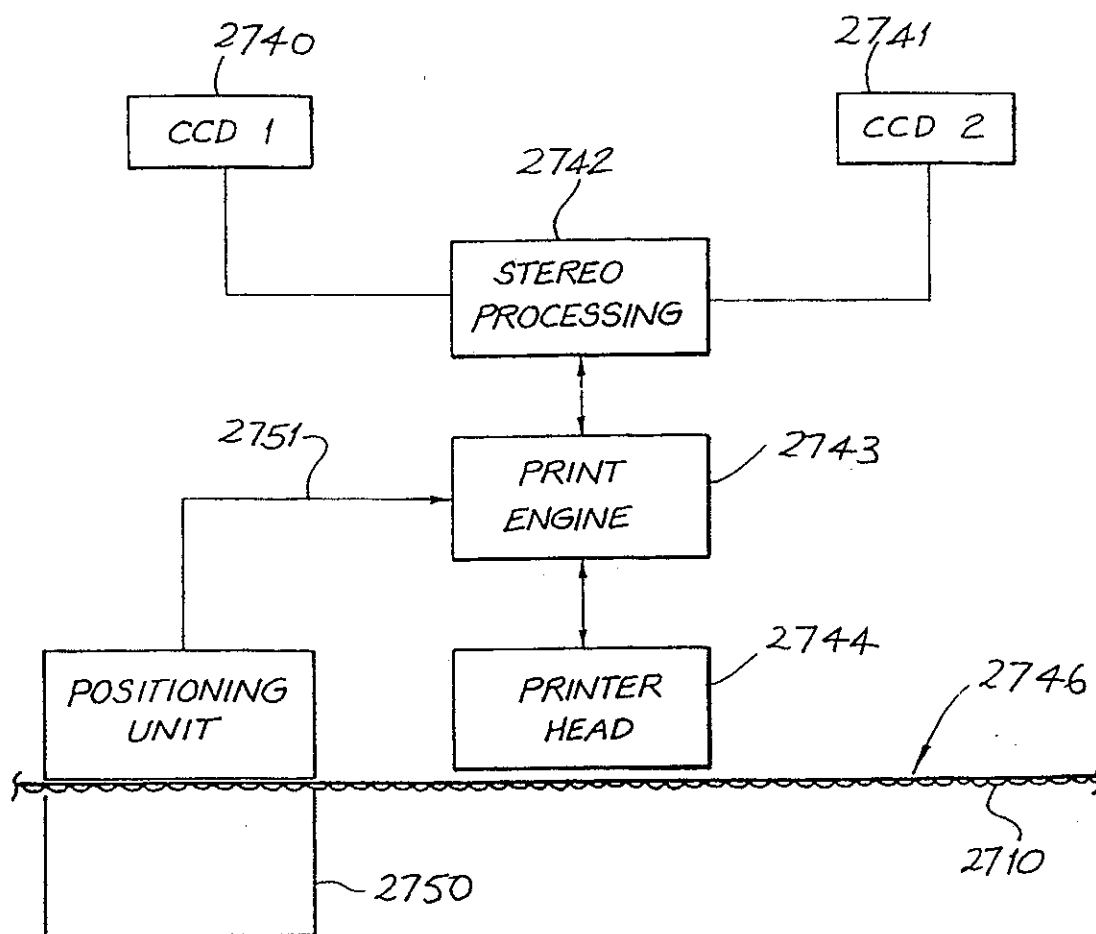


FIG. 254

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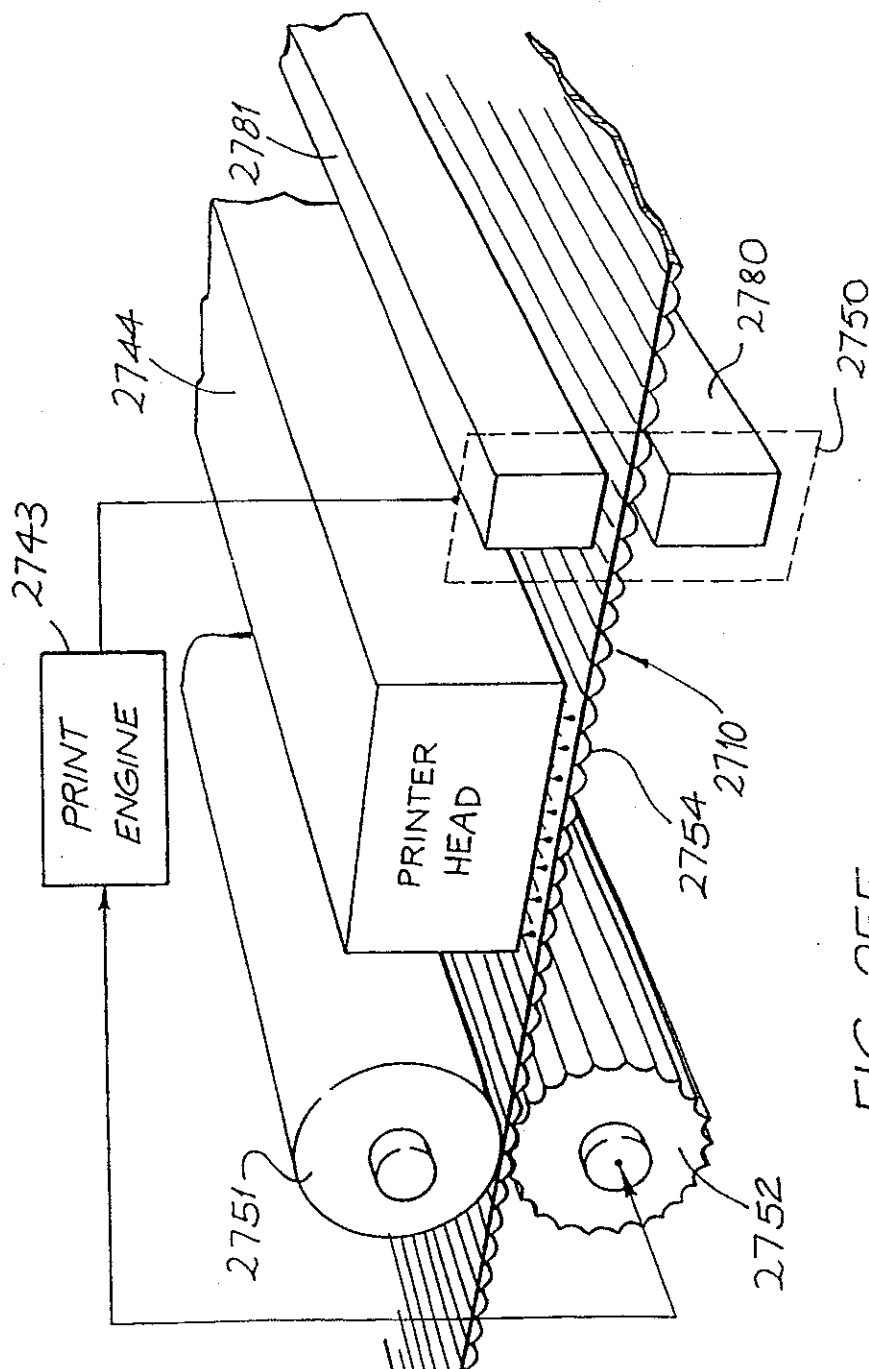


FIG. 255

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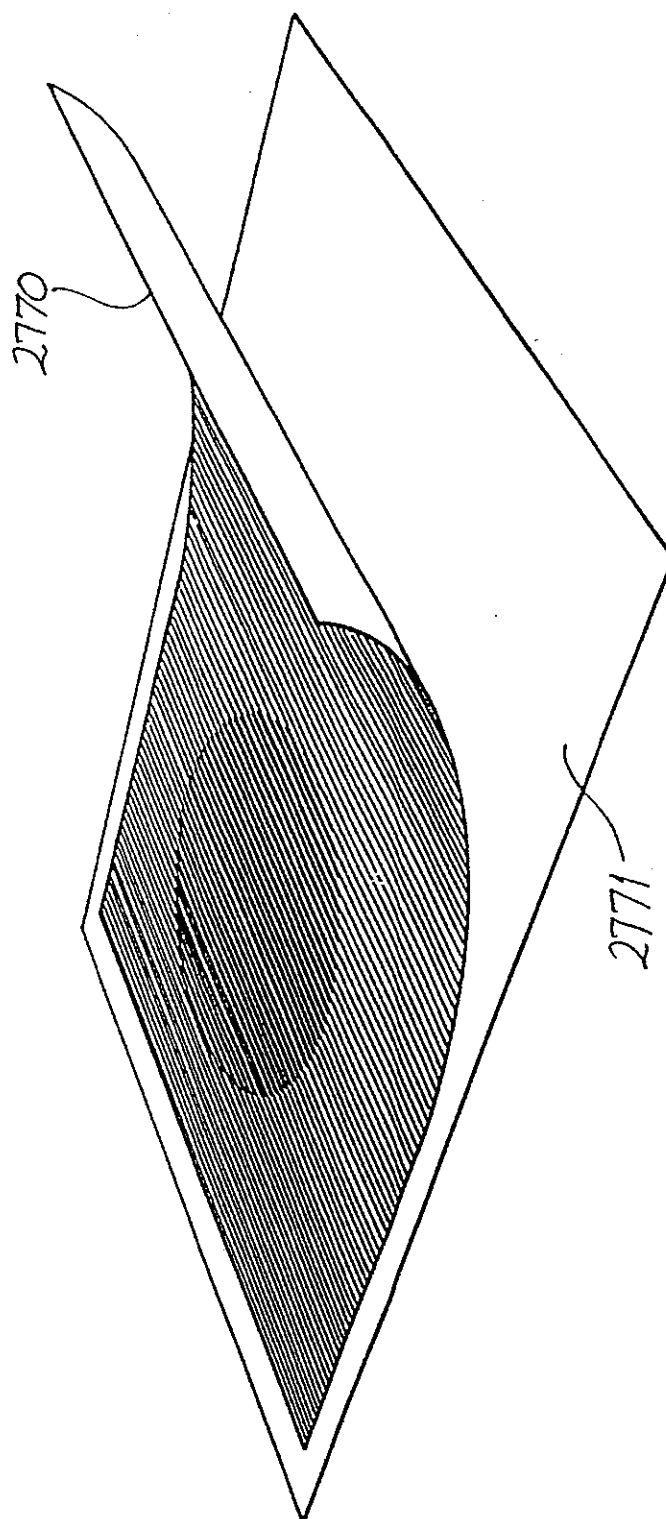


FIG. 257

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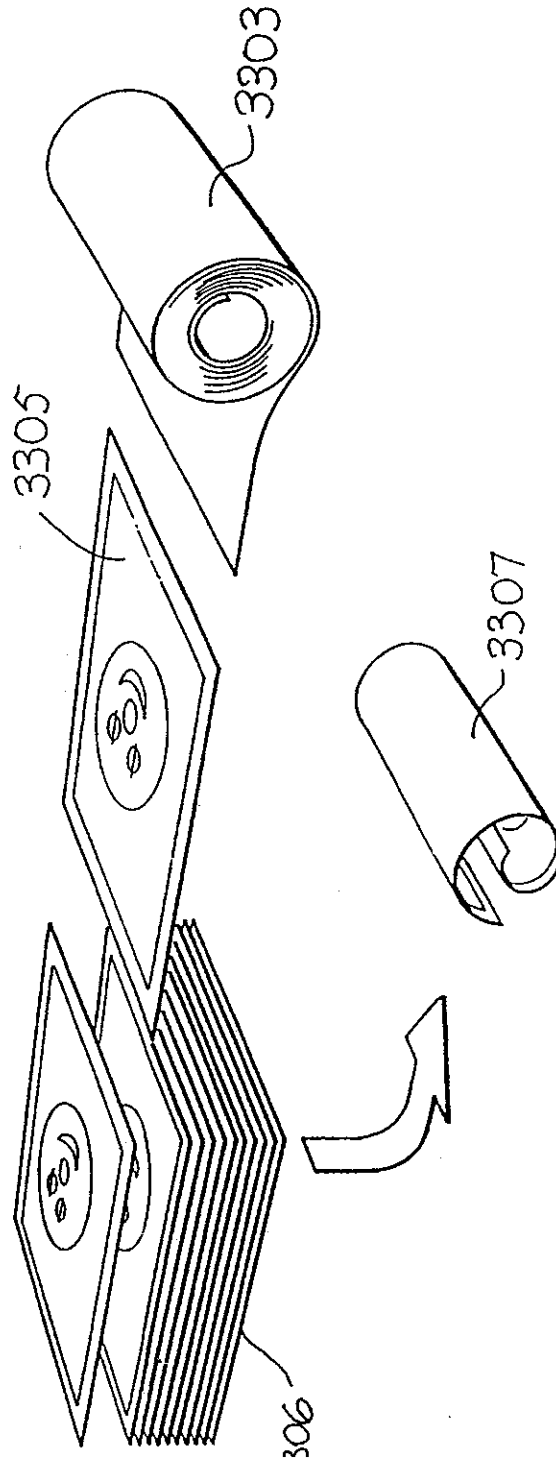
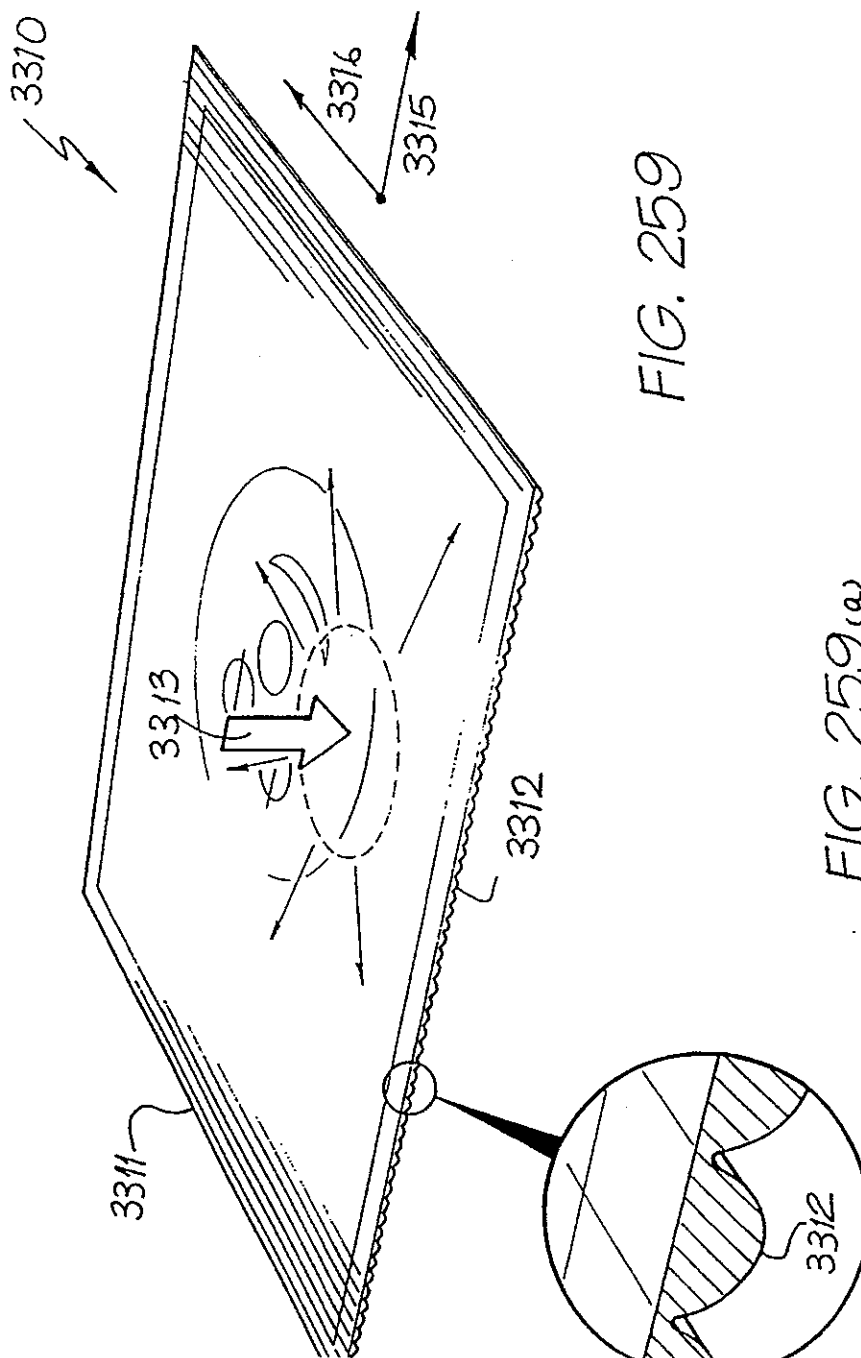


FIG. 258

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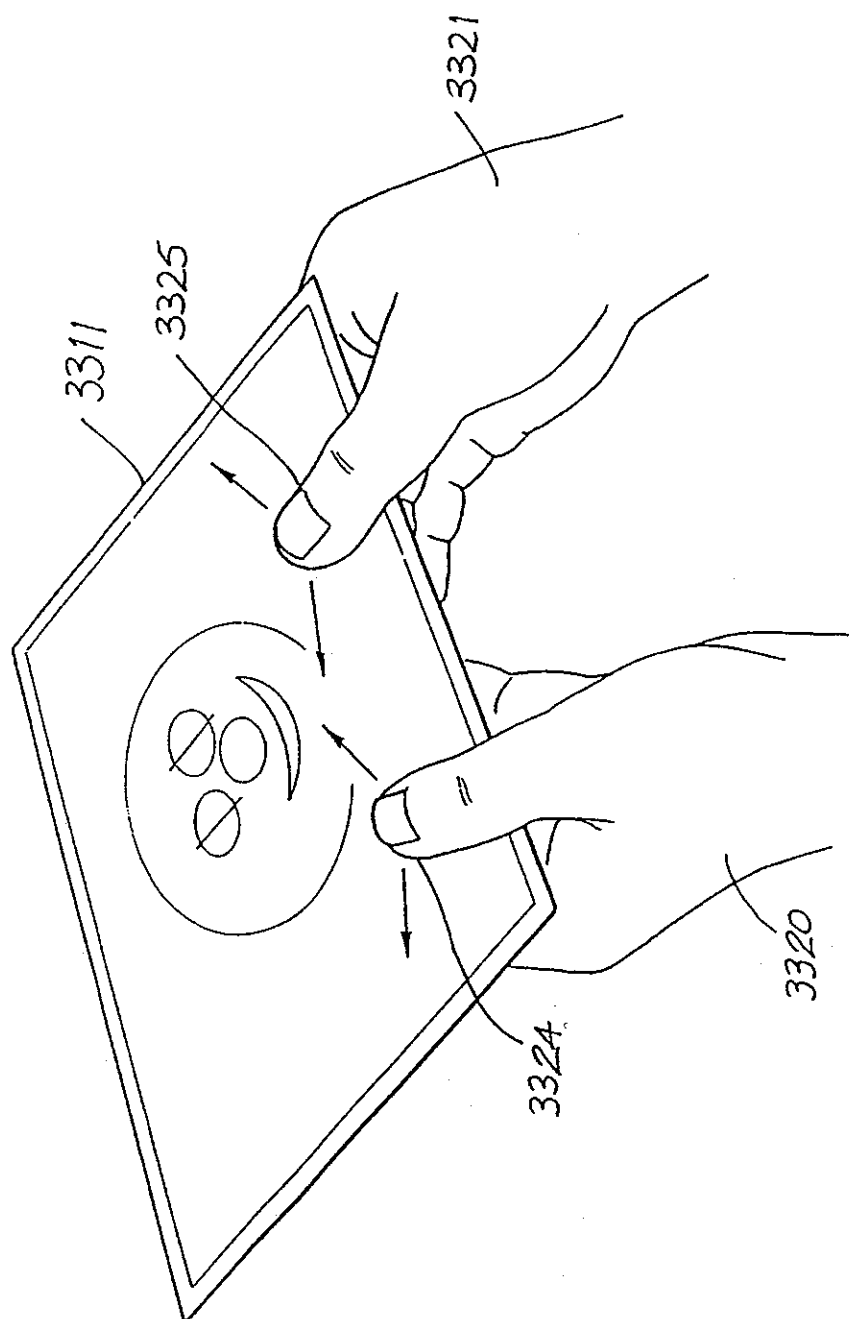


FIG. 260

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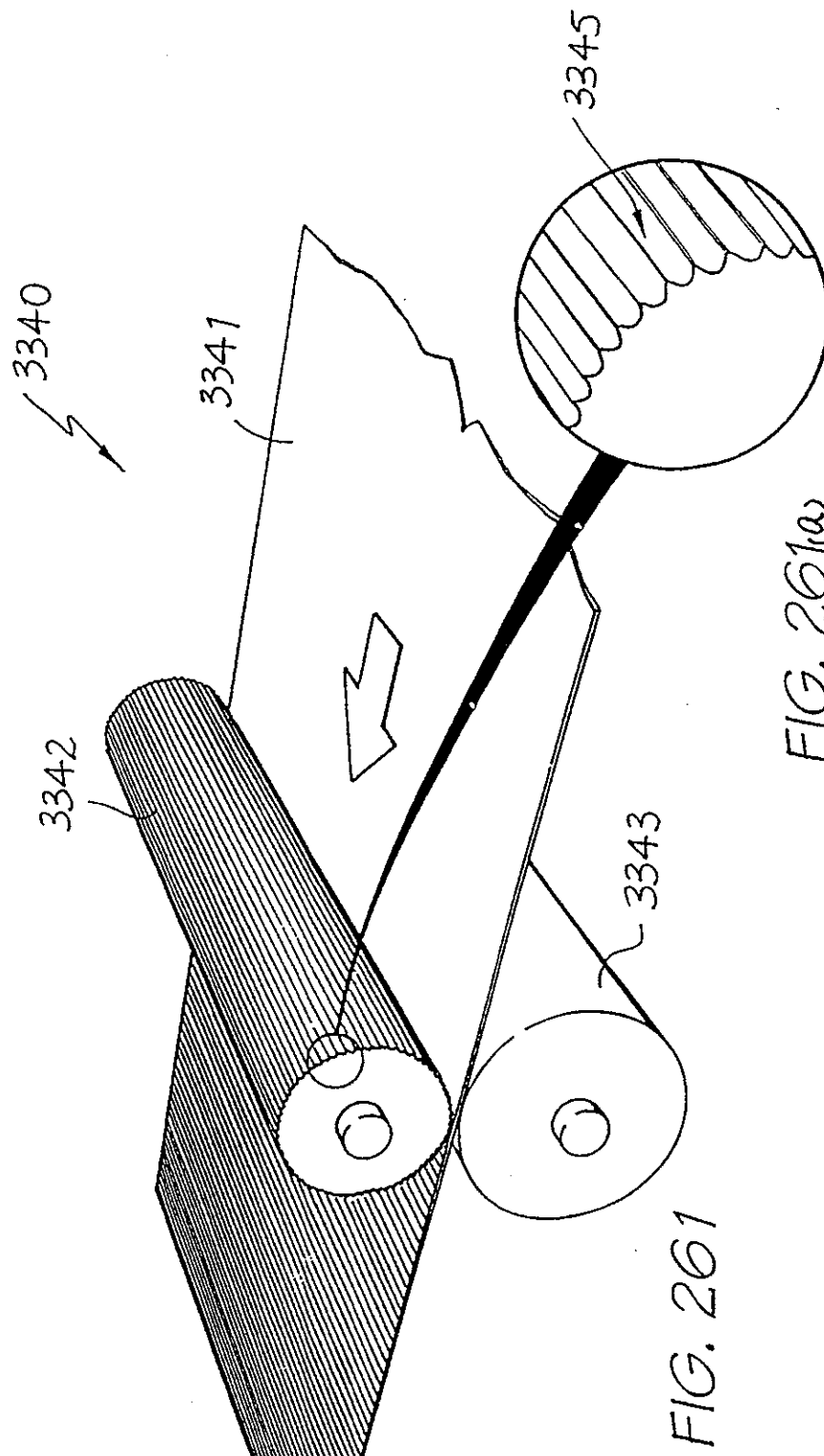
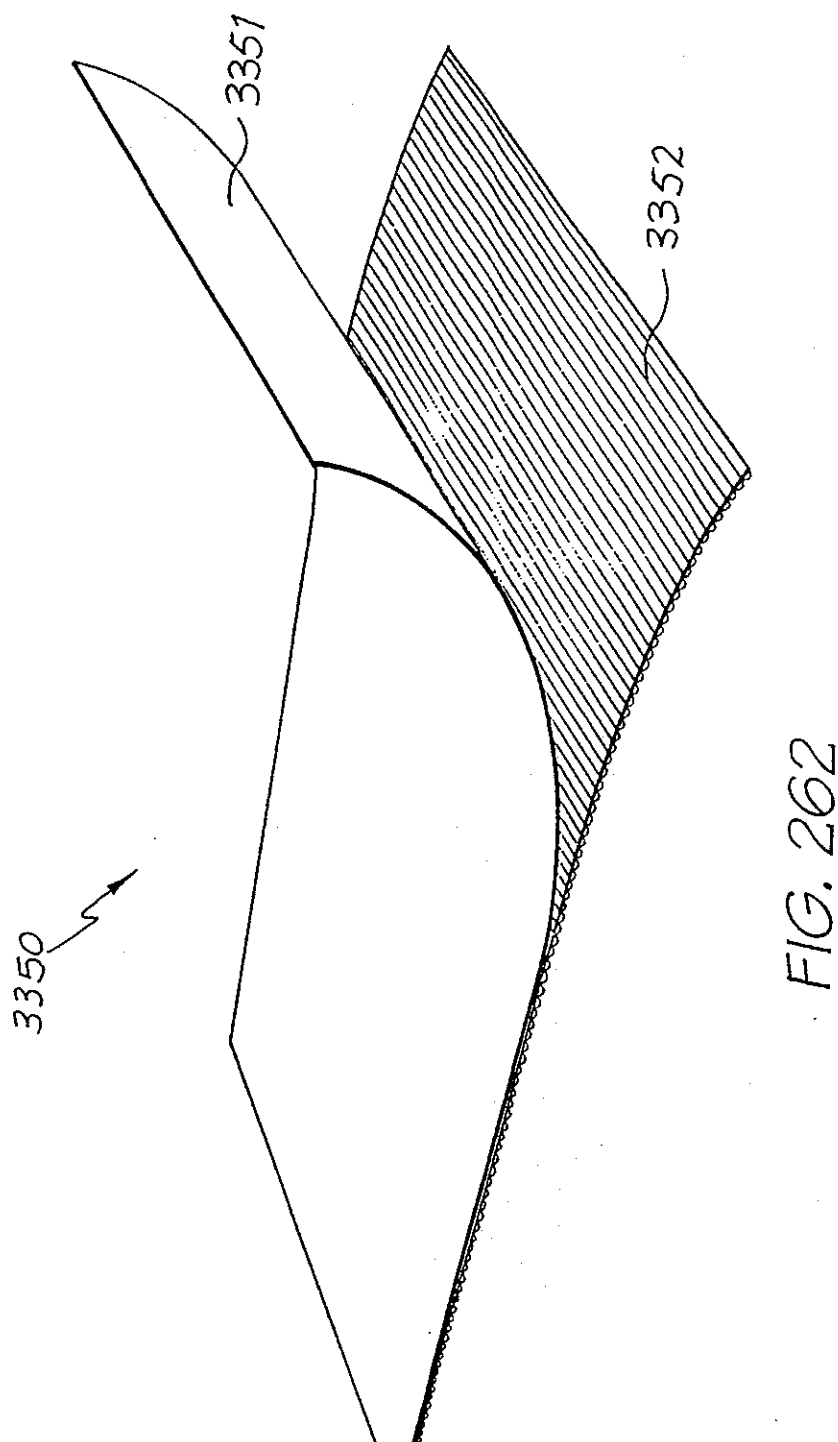


FIG. 261(a)

FIG. 261

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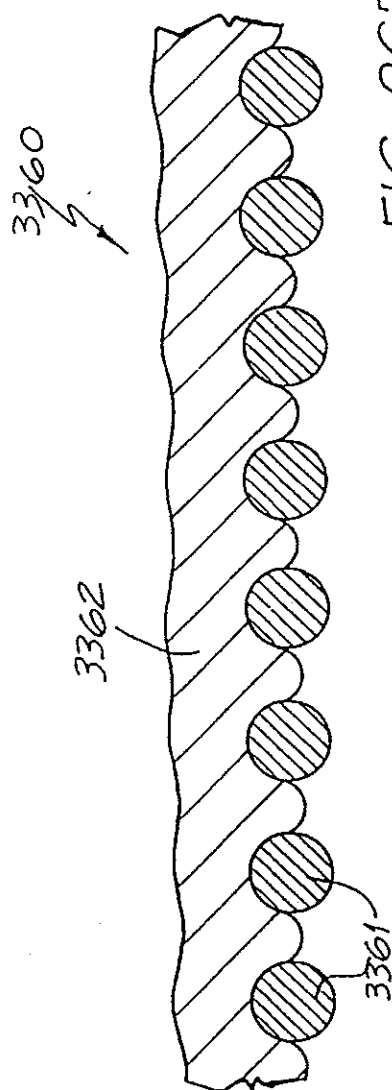


FIG. 263

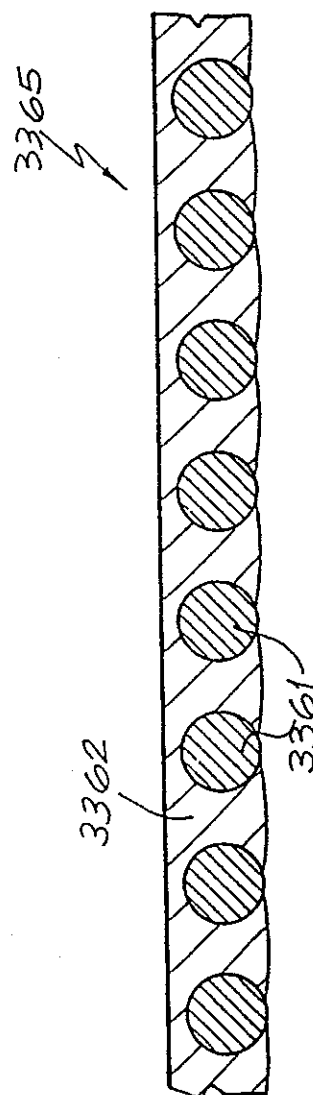


FIG. 264

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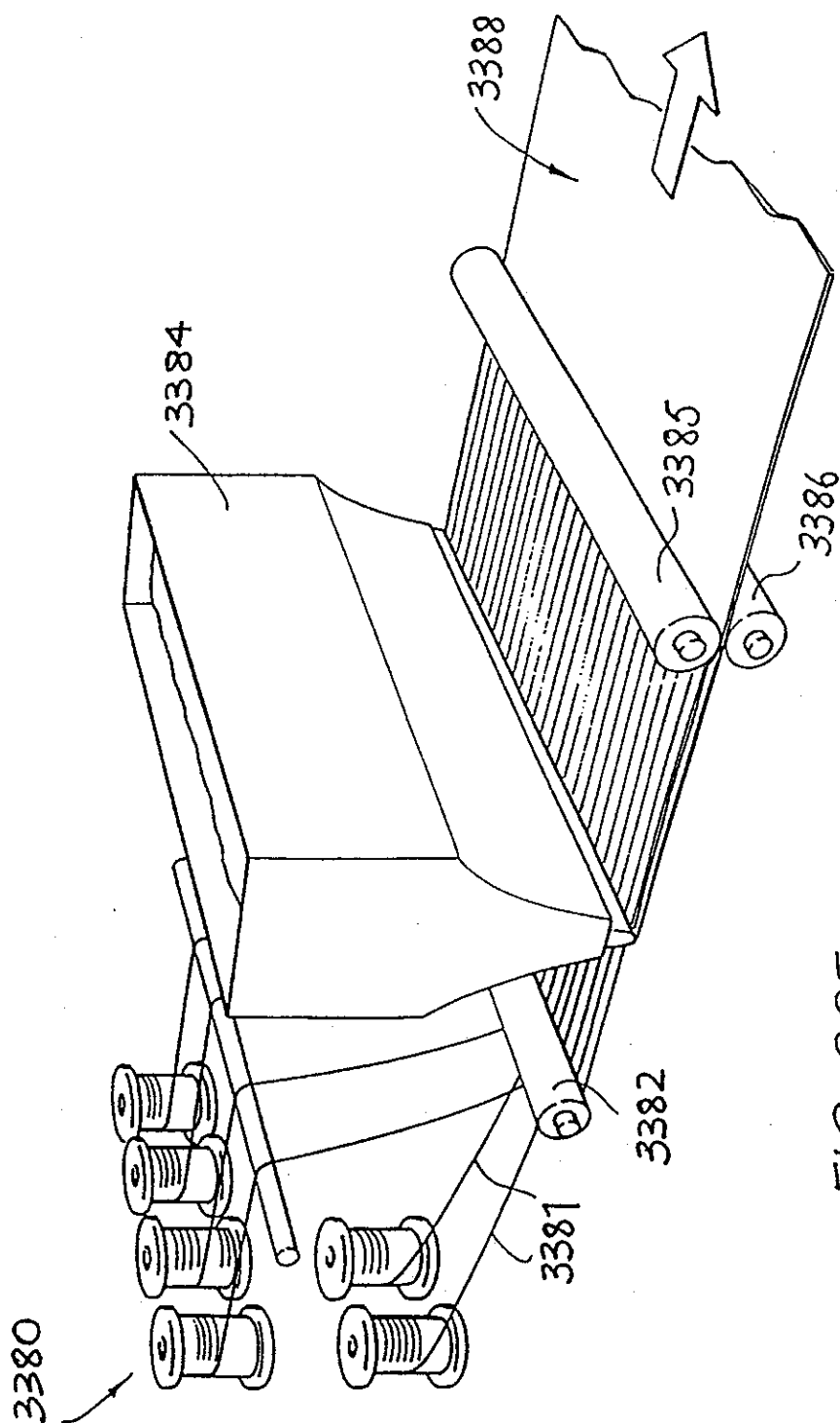


FIG. 265

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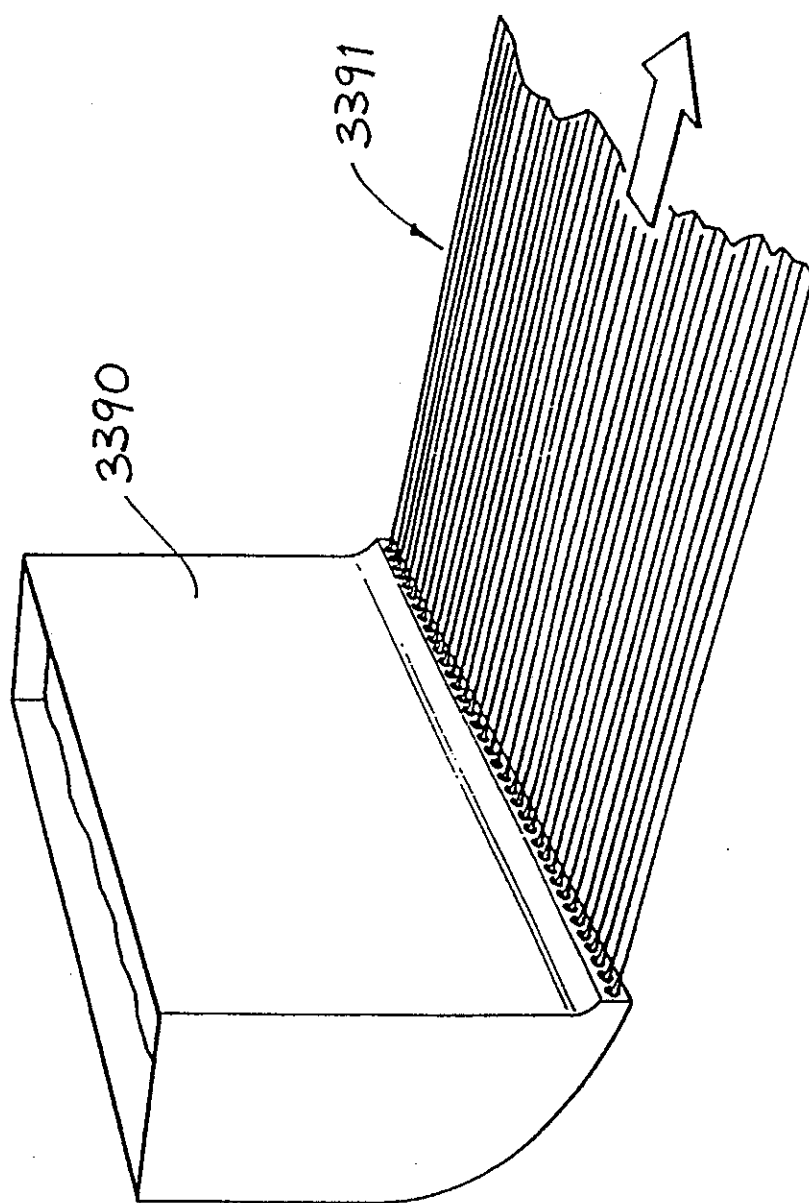
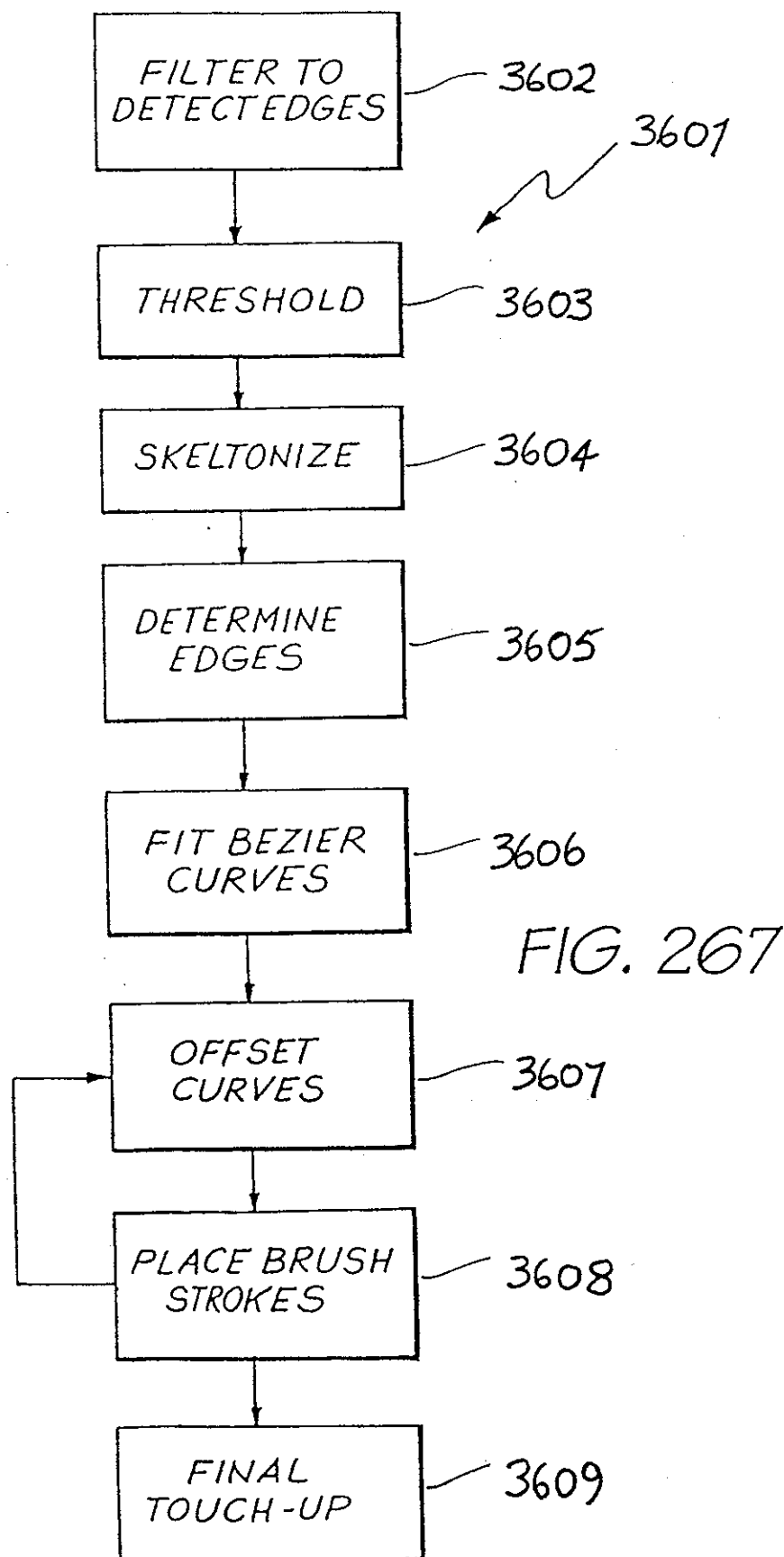


FIG. 266

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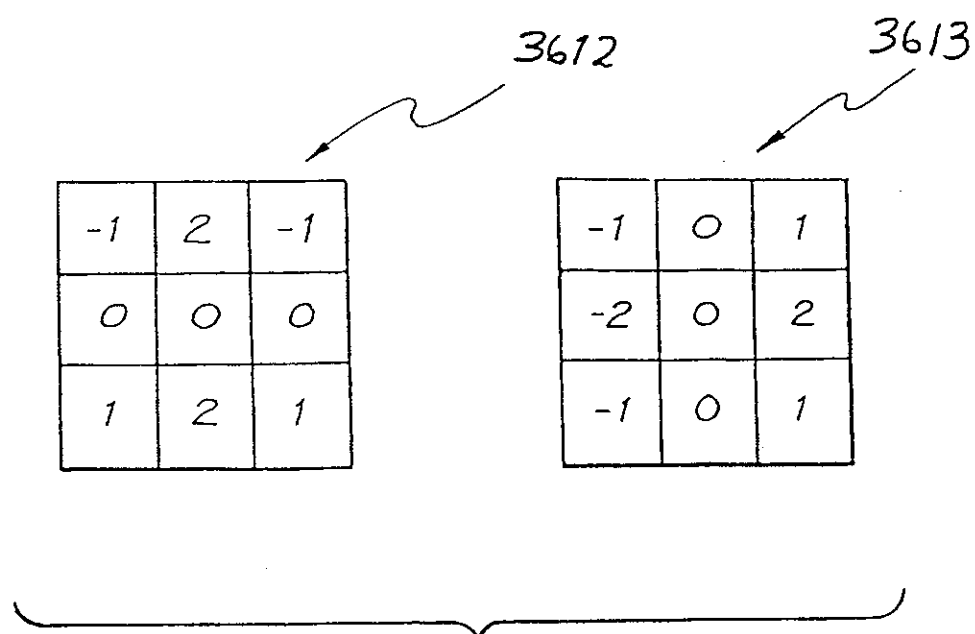


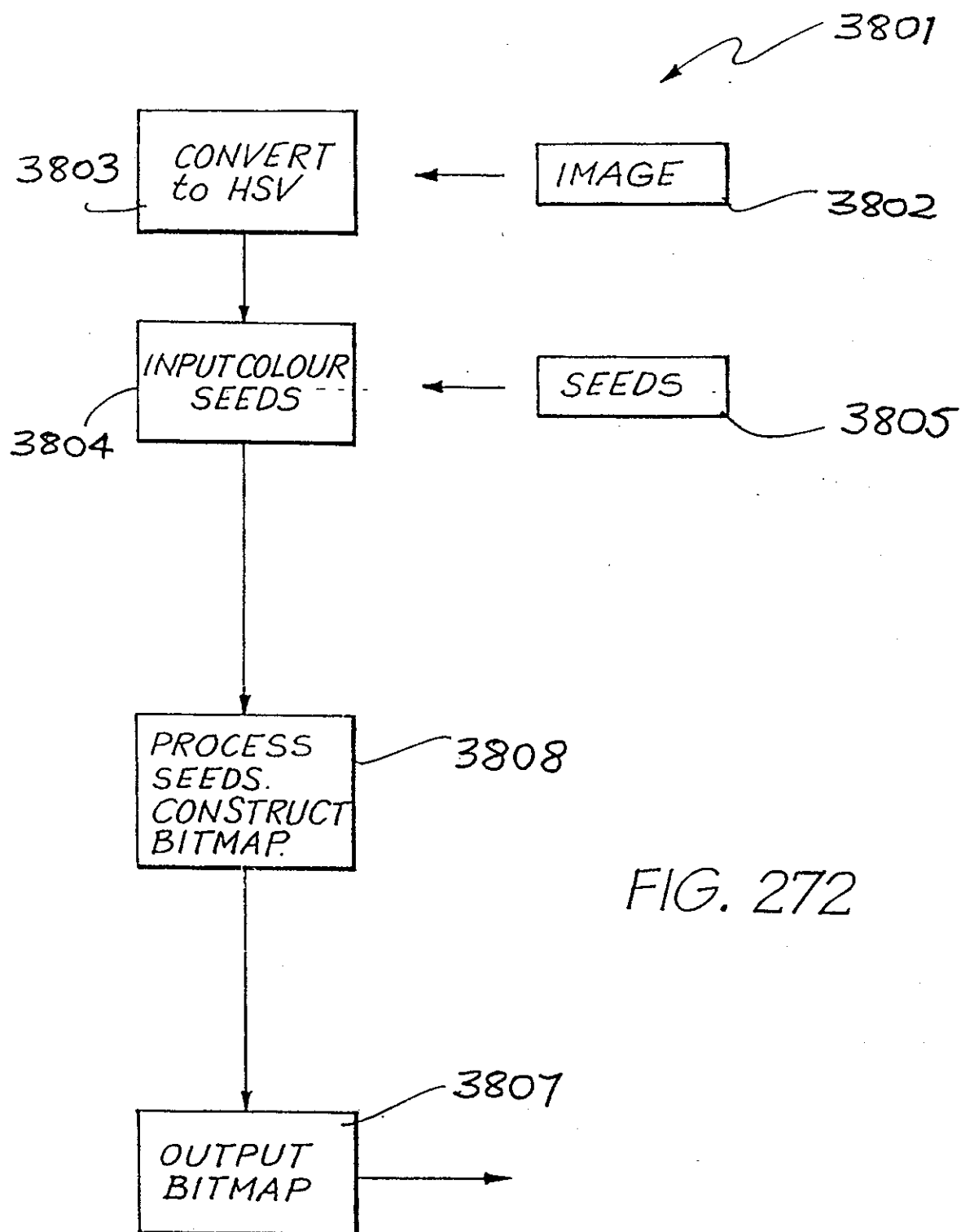
FIG. 268

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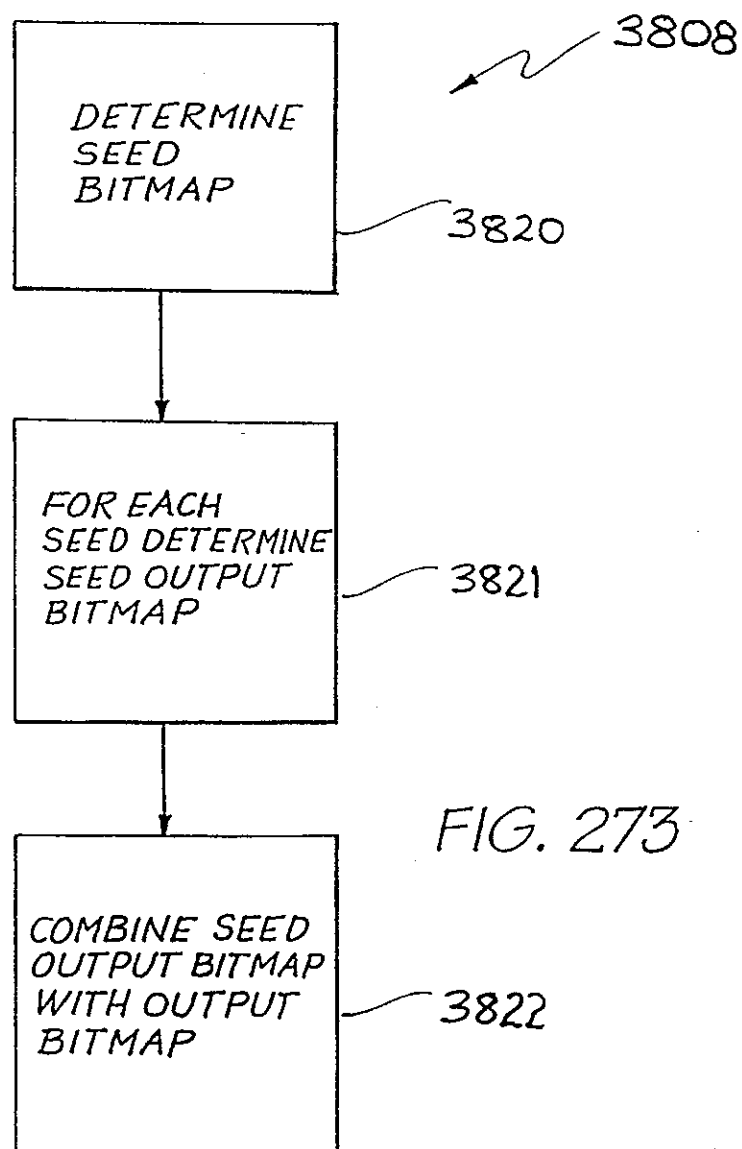


FIG. 271

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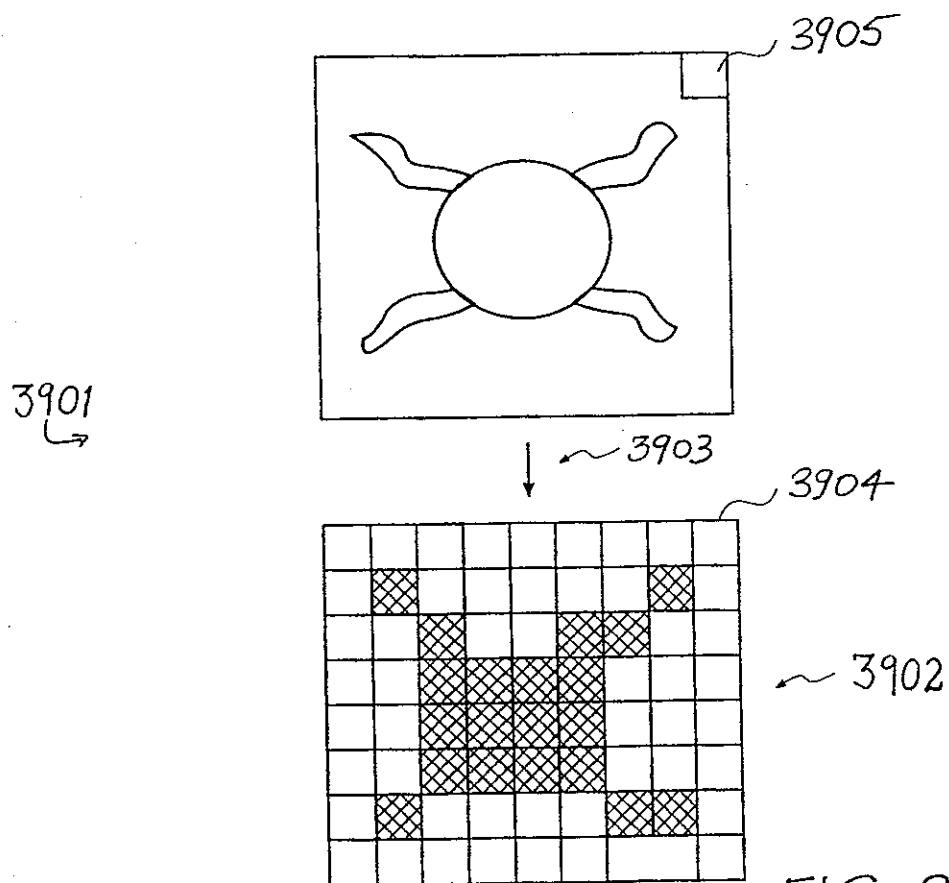


FIG. 274

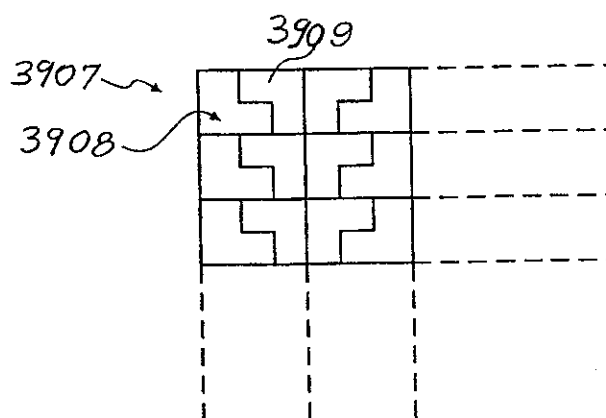
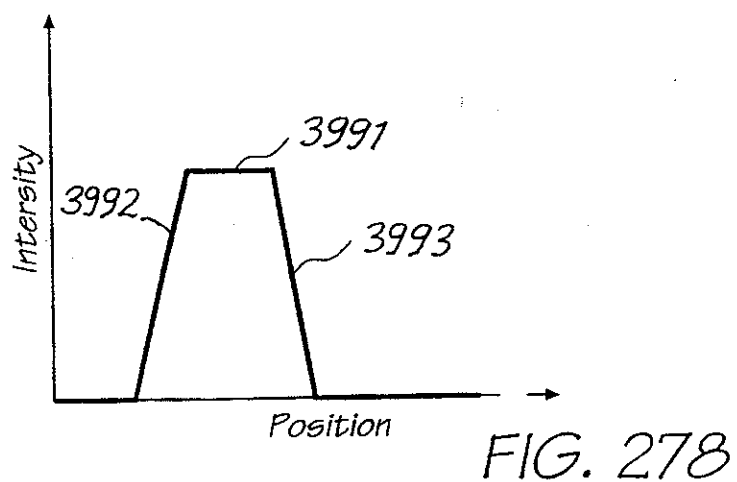
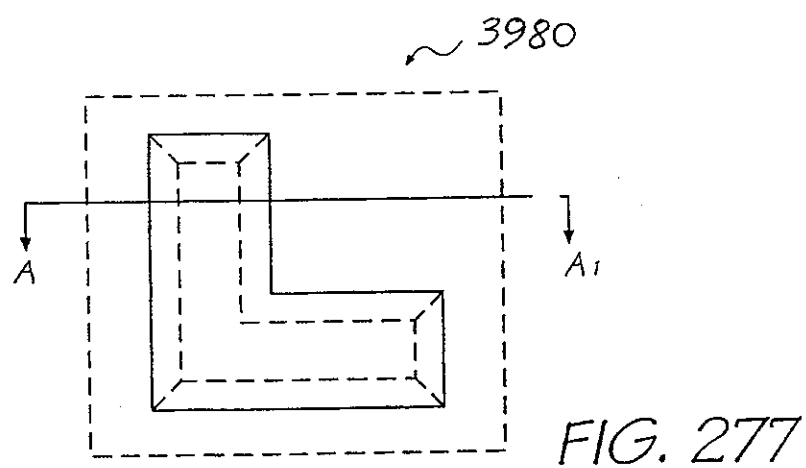
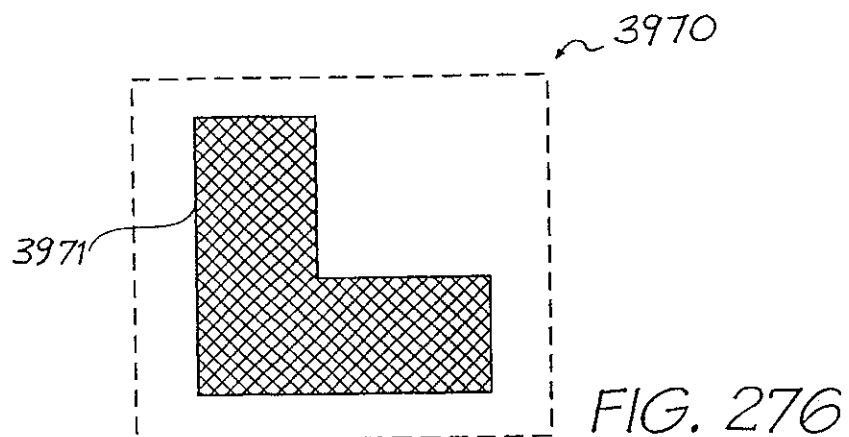


FIG. 275

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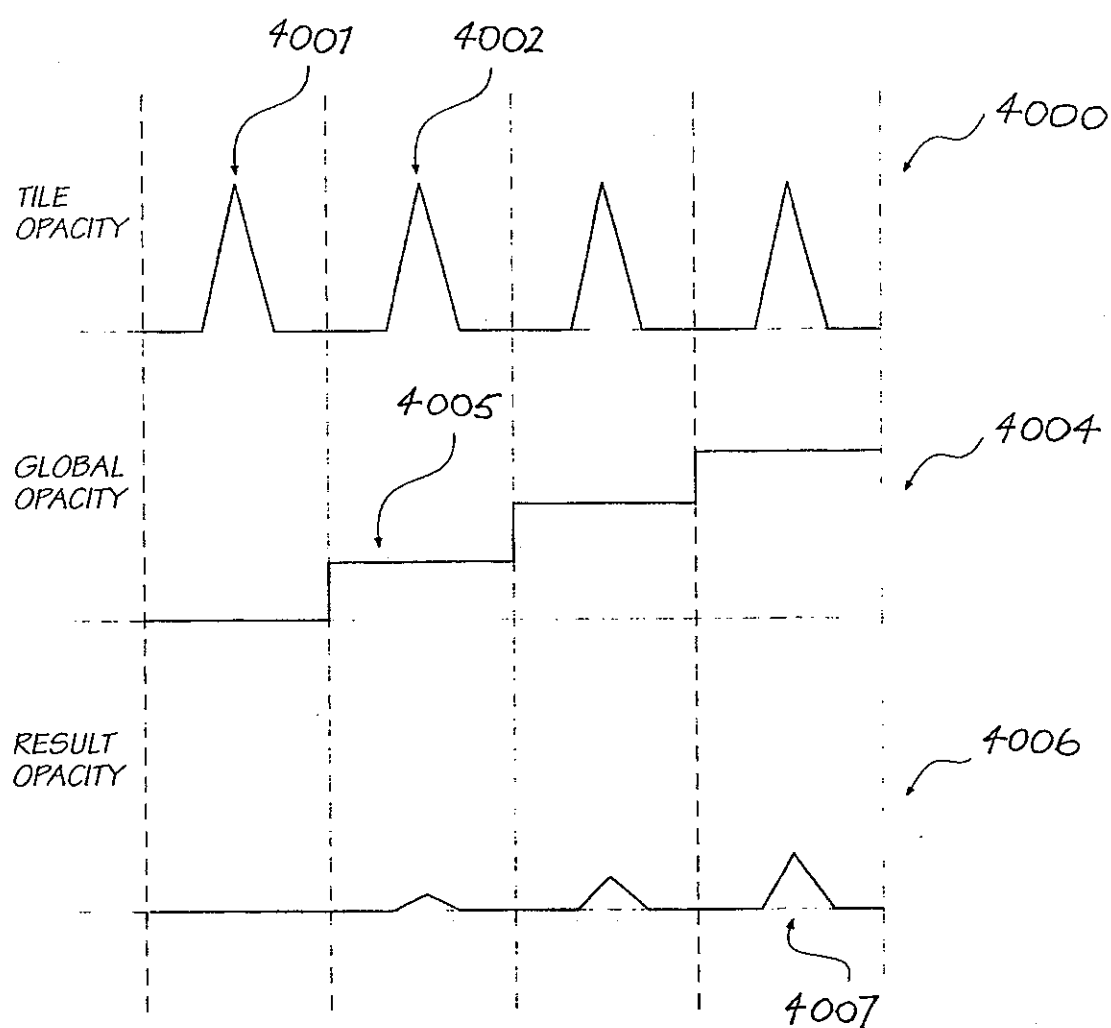
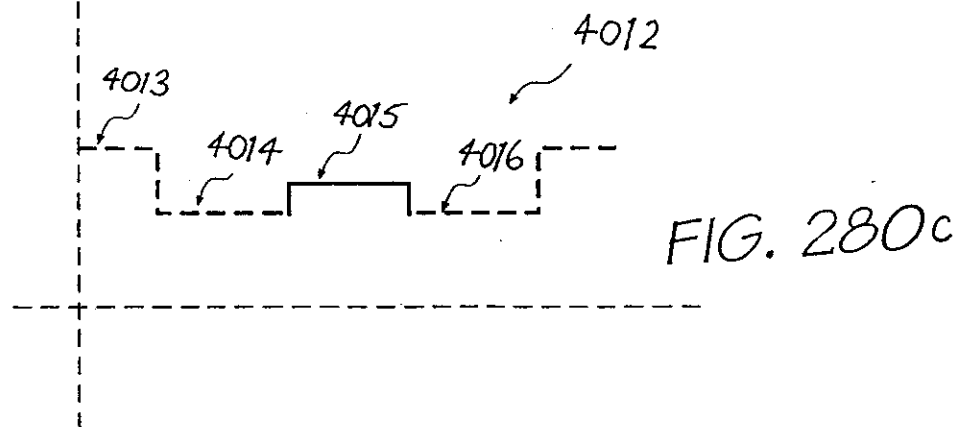
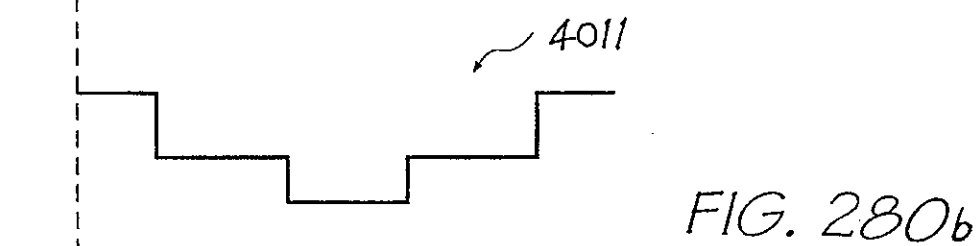
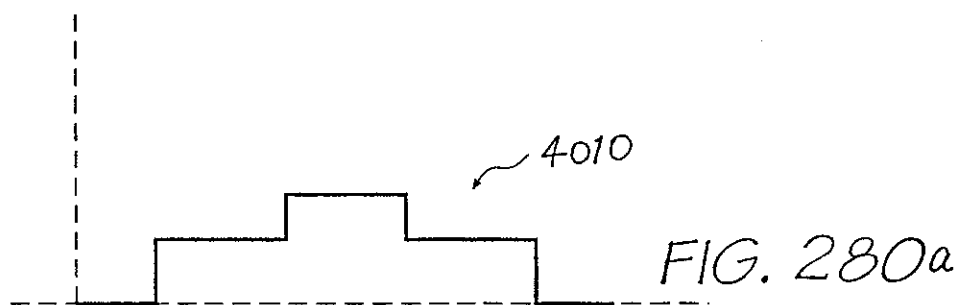


FIG. 279

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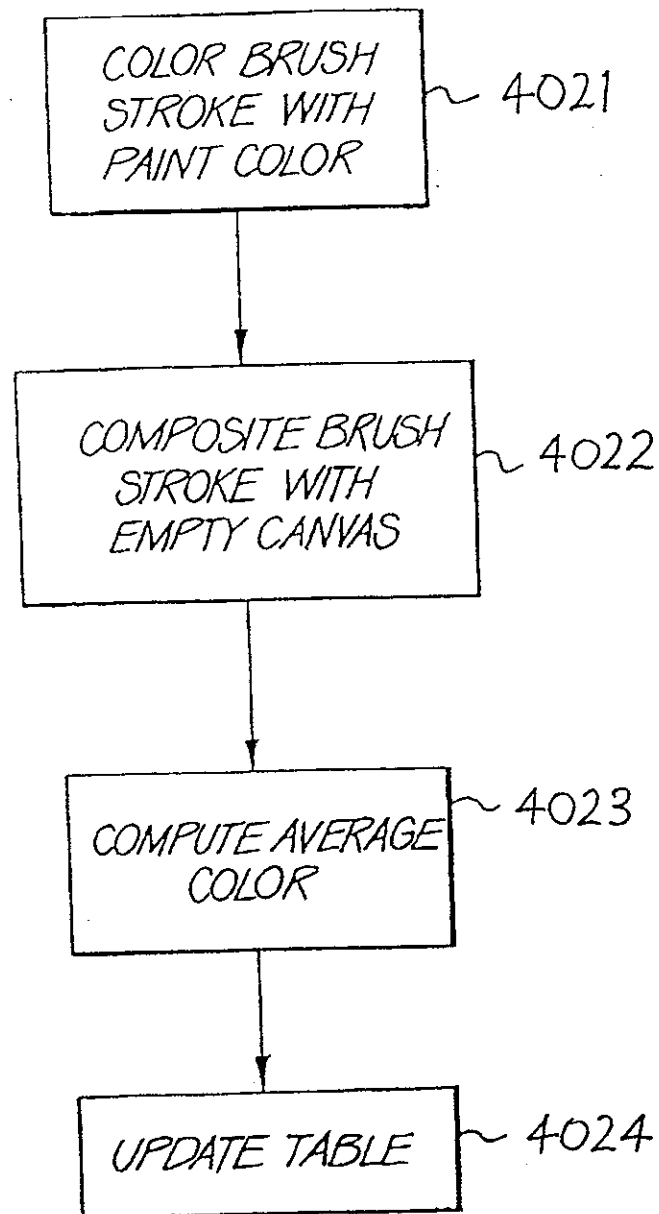


FIG. 282

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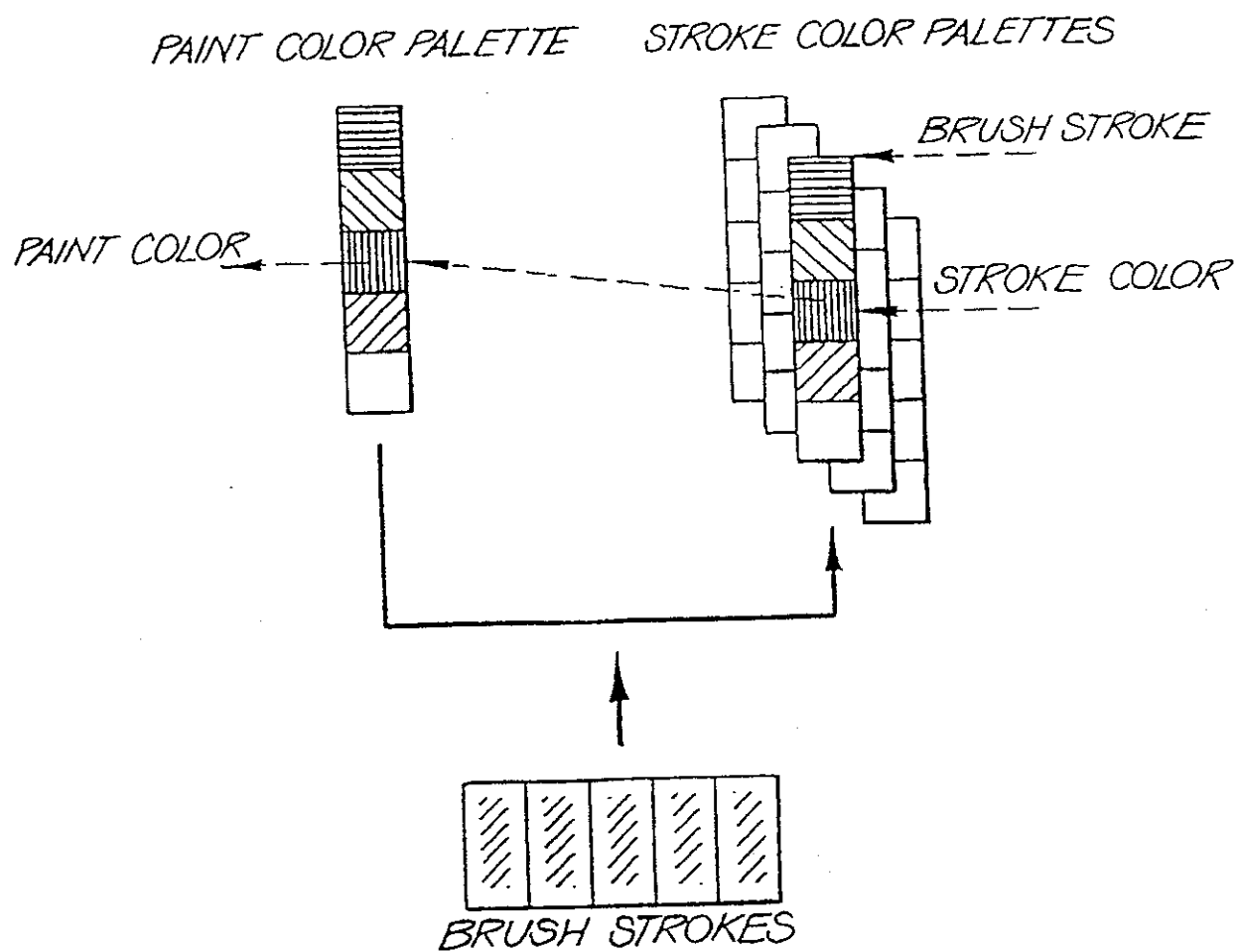


FIG. 283

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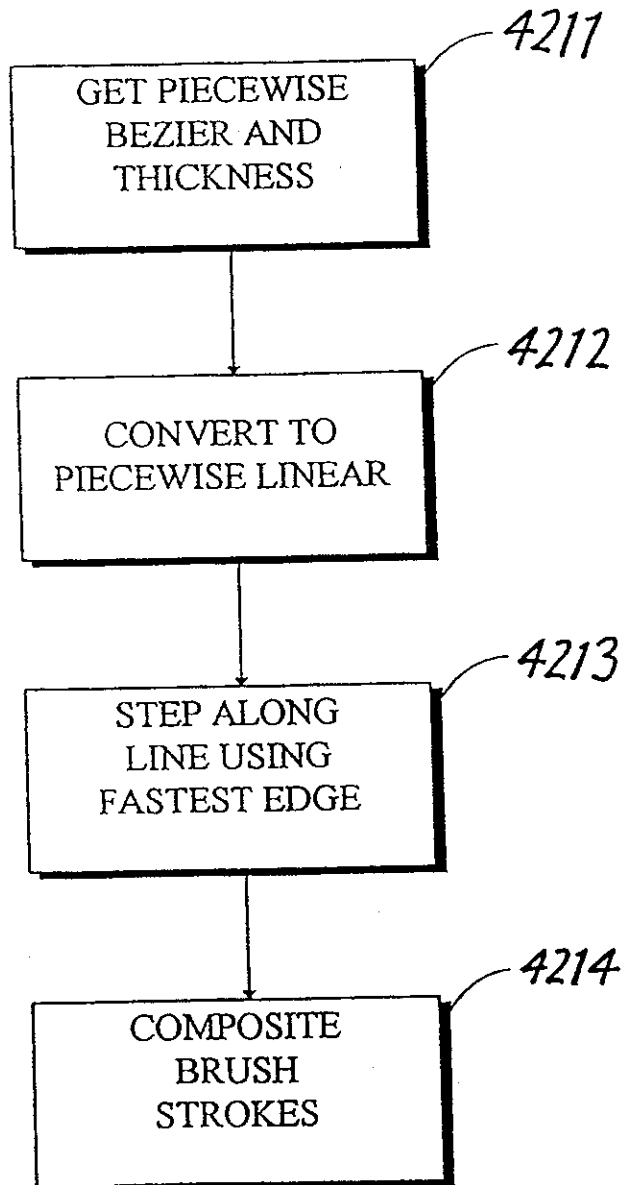


FIG. 284

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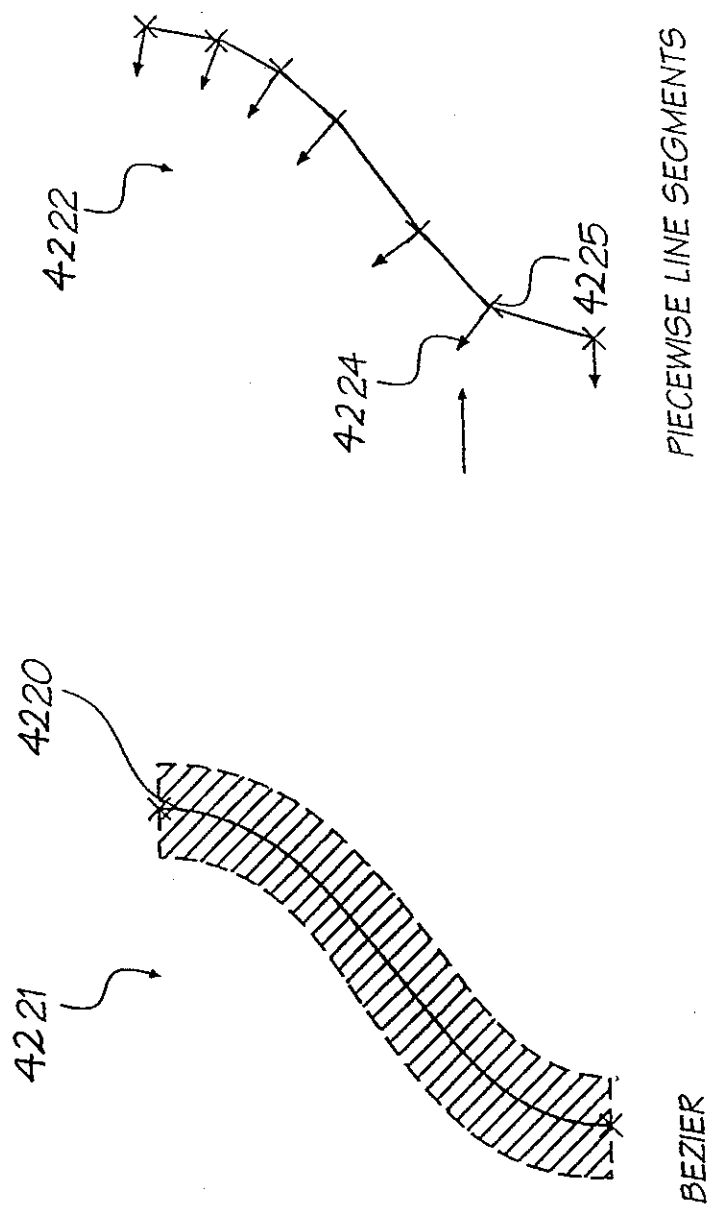


FIG. 285

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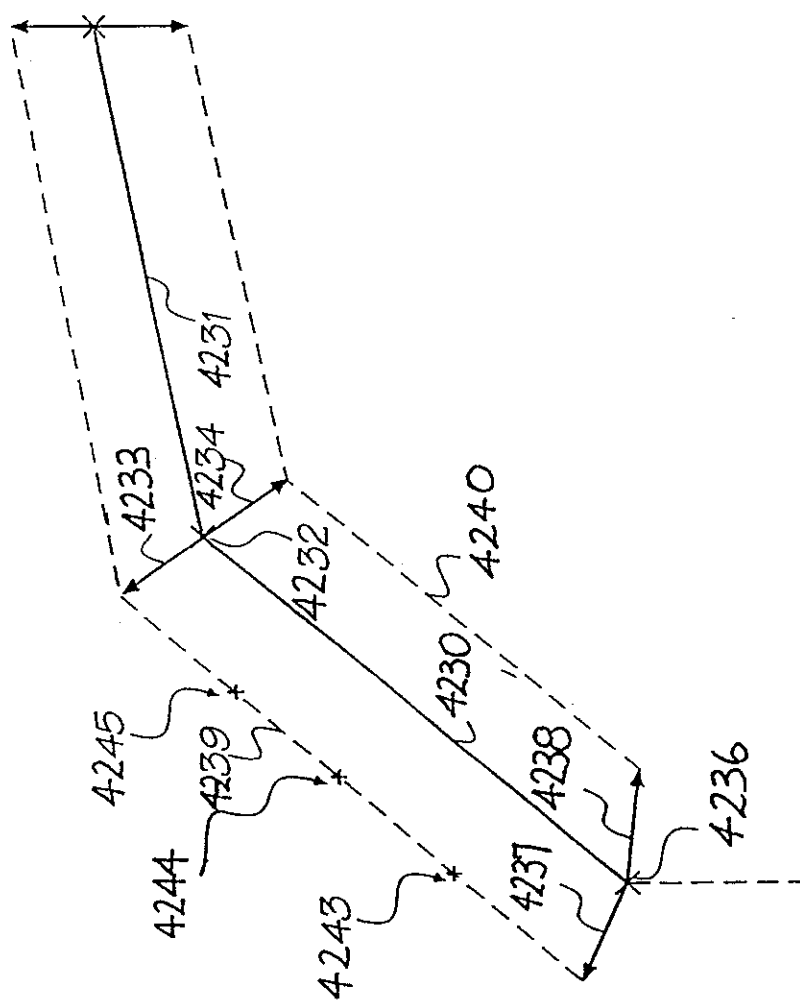


FIG. 286

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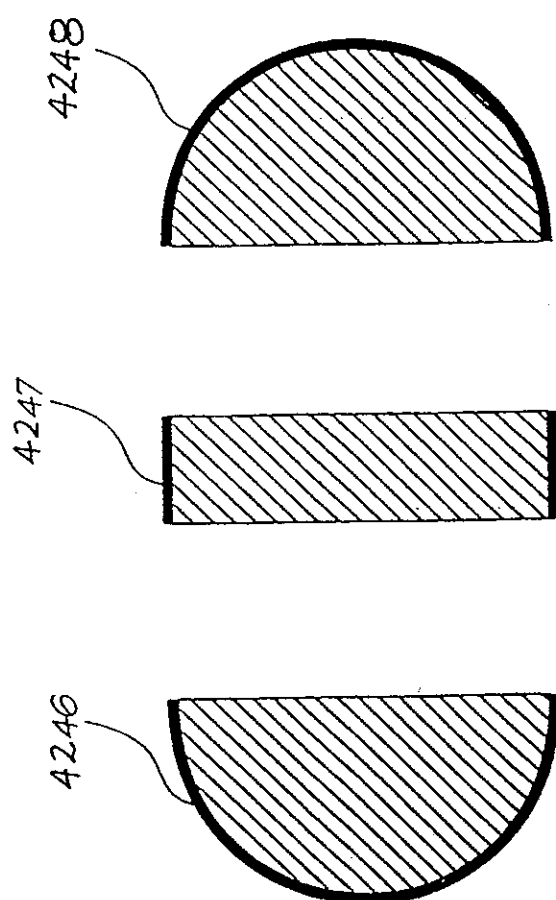


FIG. 287

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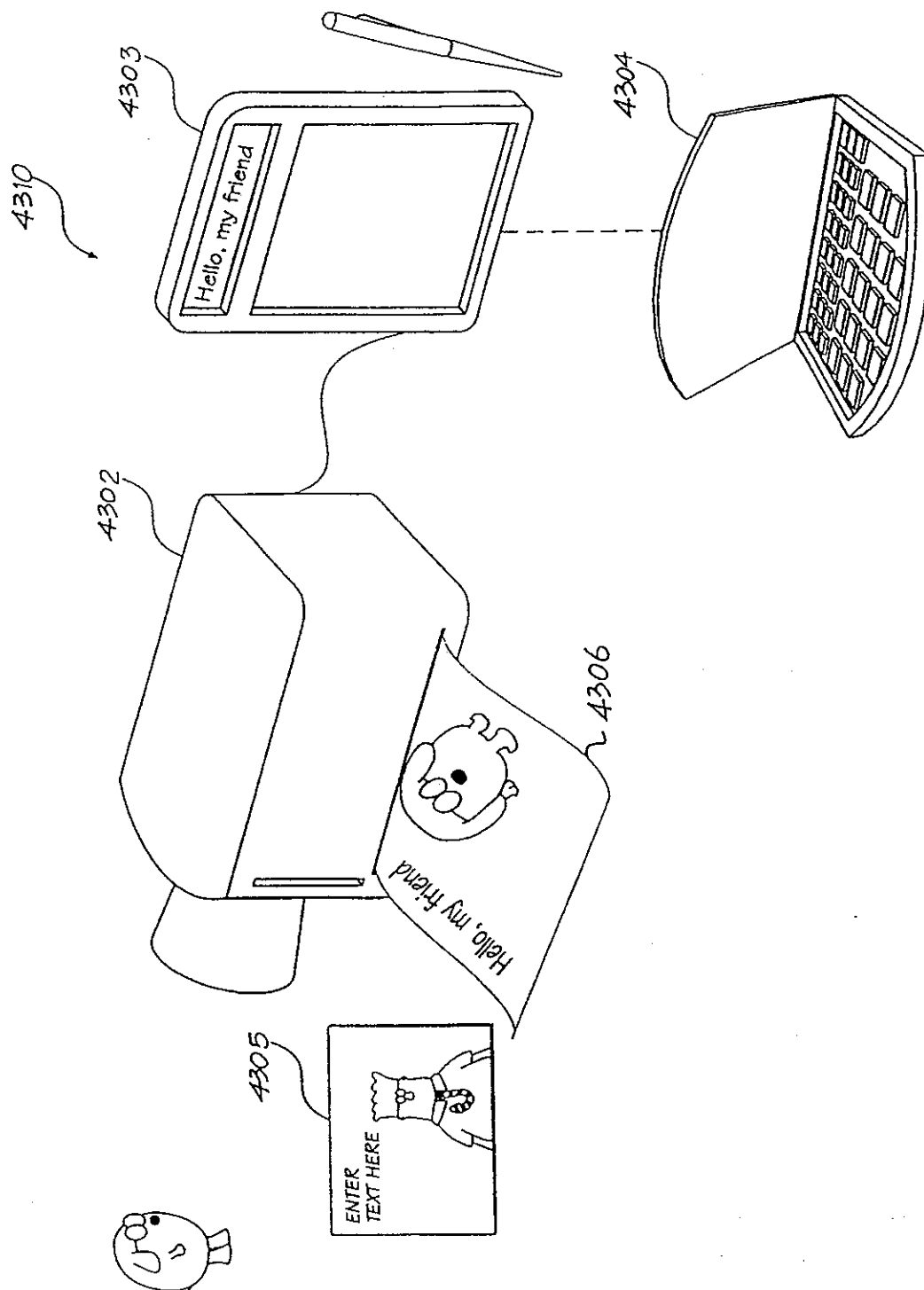


FIG. 288

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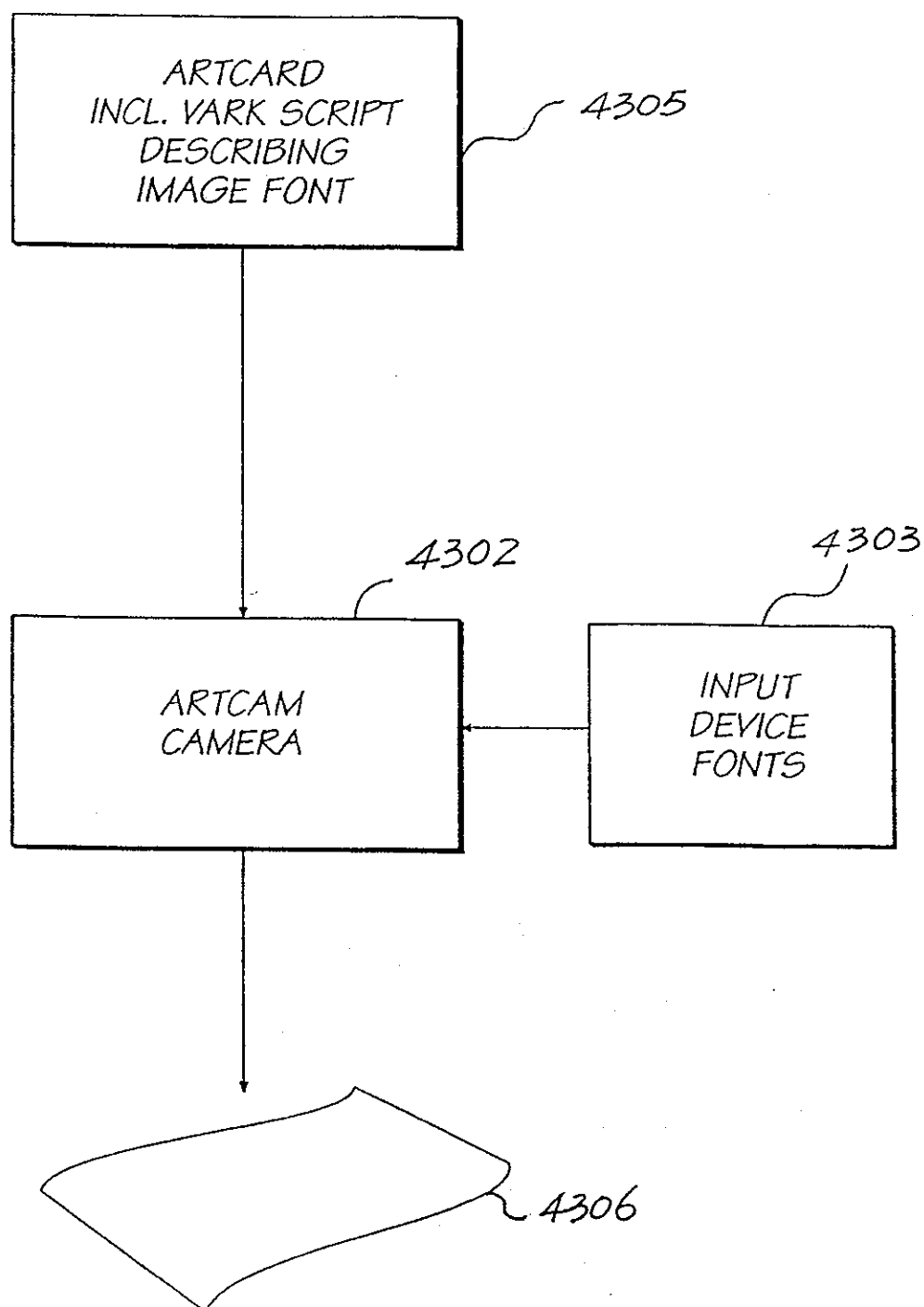


FIG. 289

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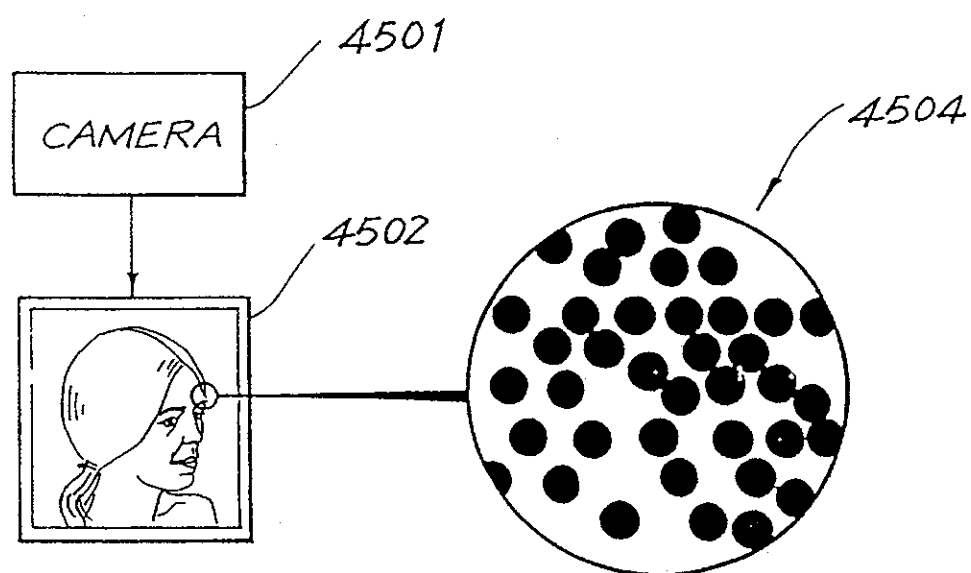


FIG. 290

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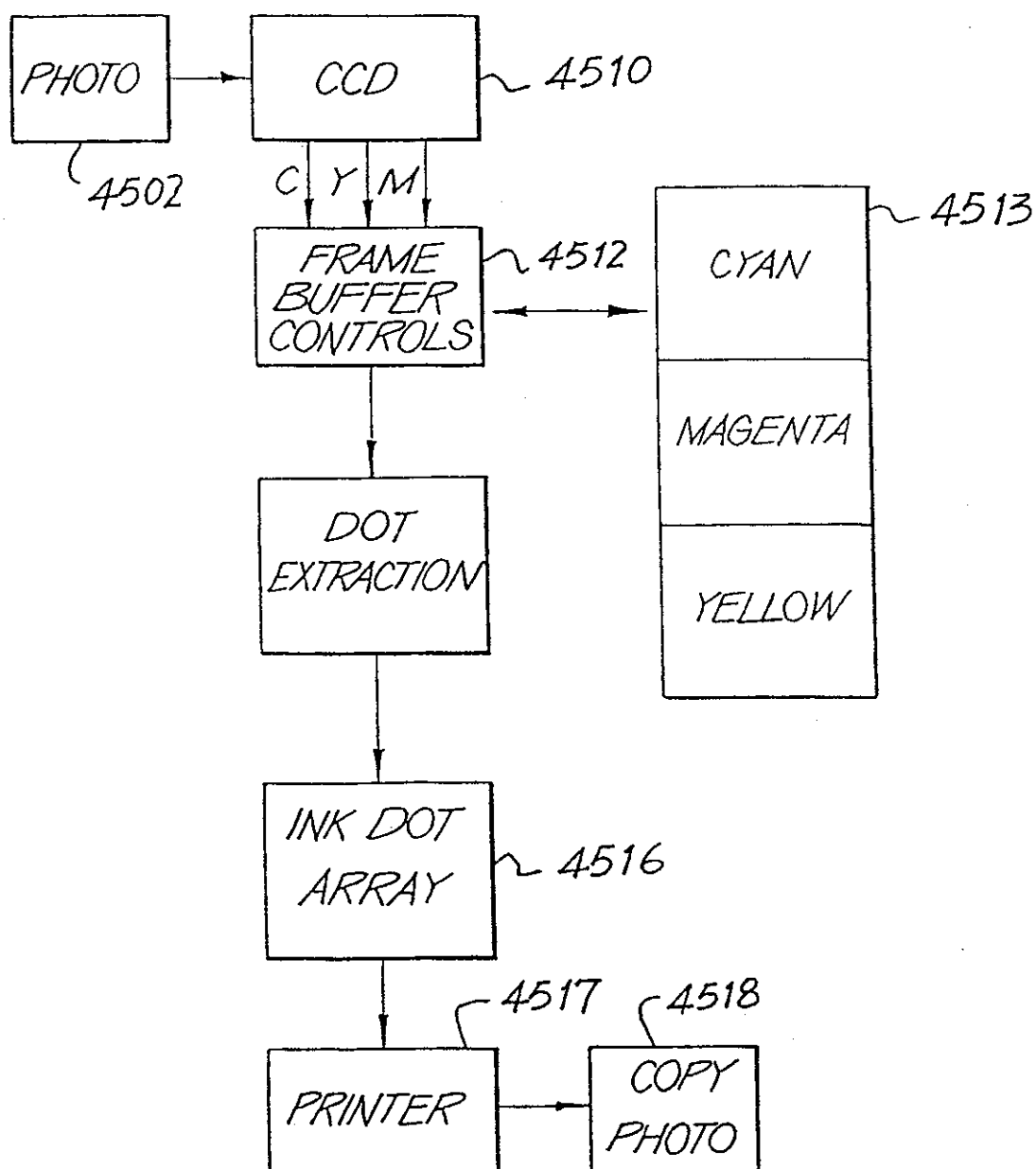


FIG. 291

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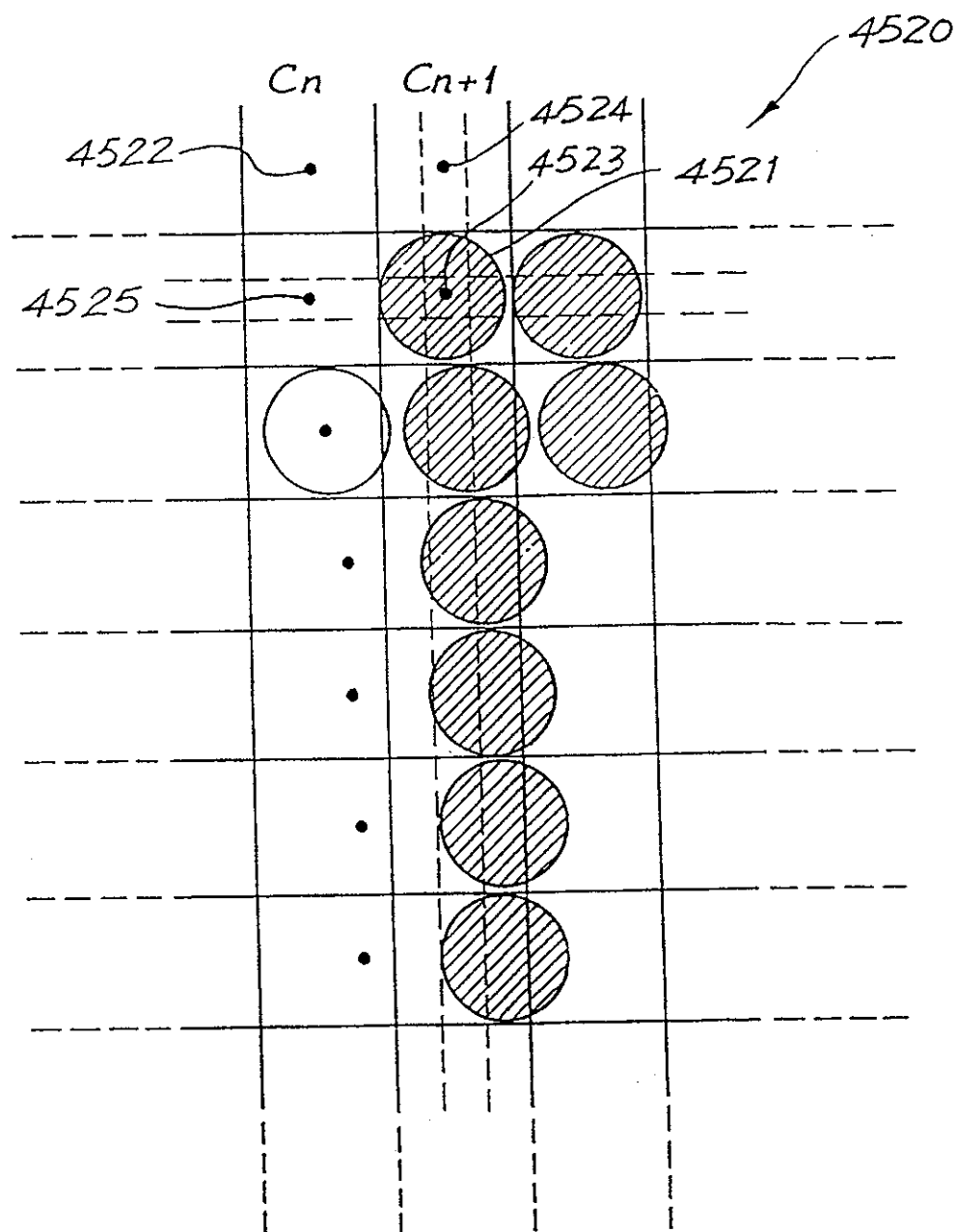


FIG. 292

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INK DOT ARRANGEMENTS

CCD VALUES

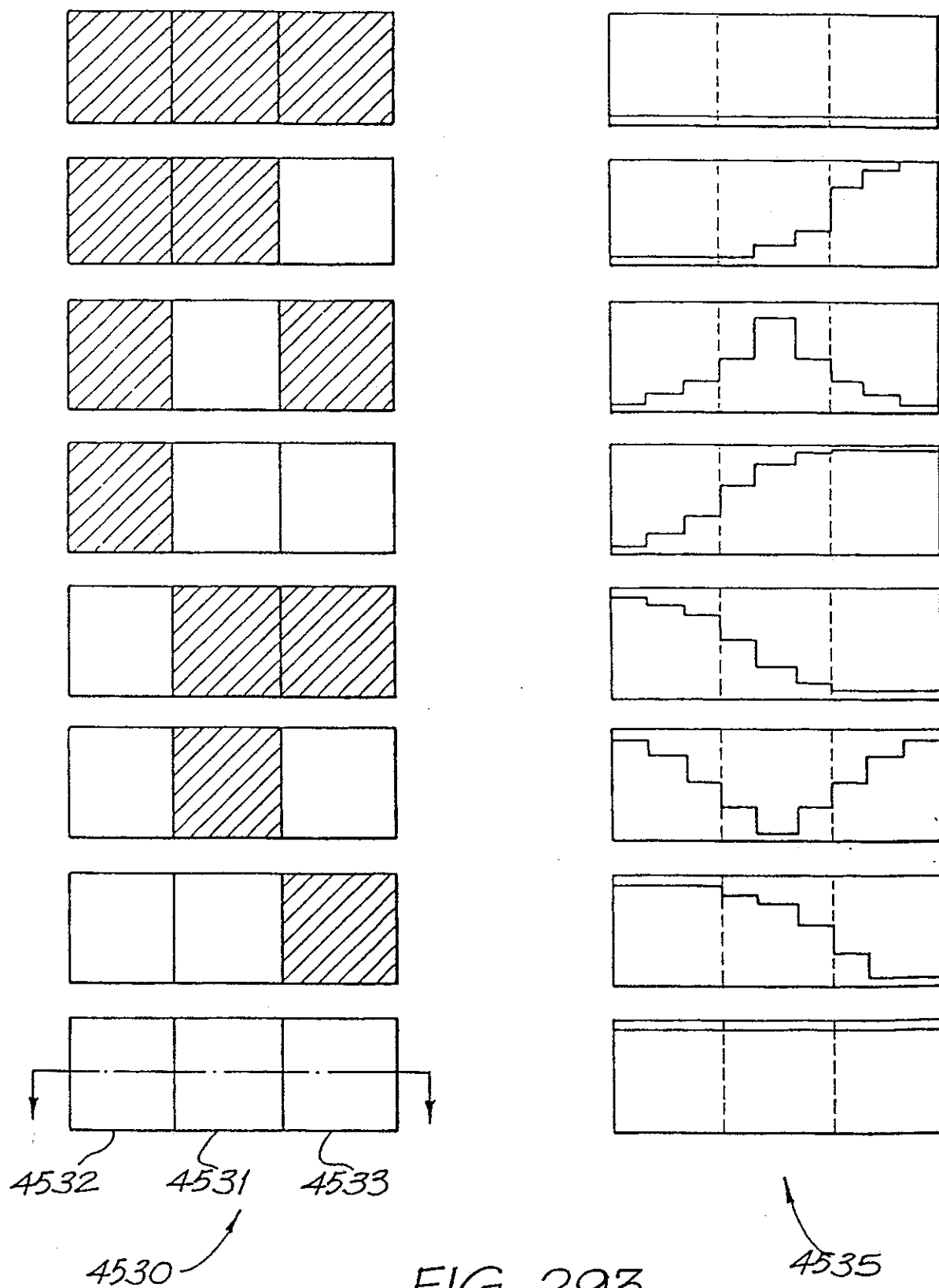


FIG. 293

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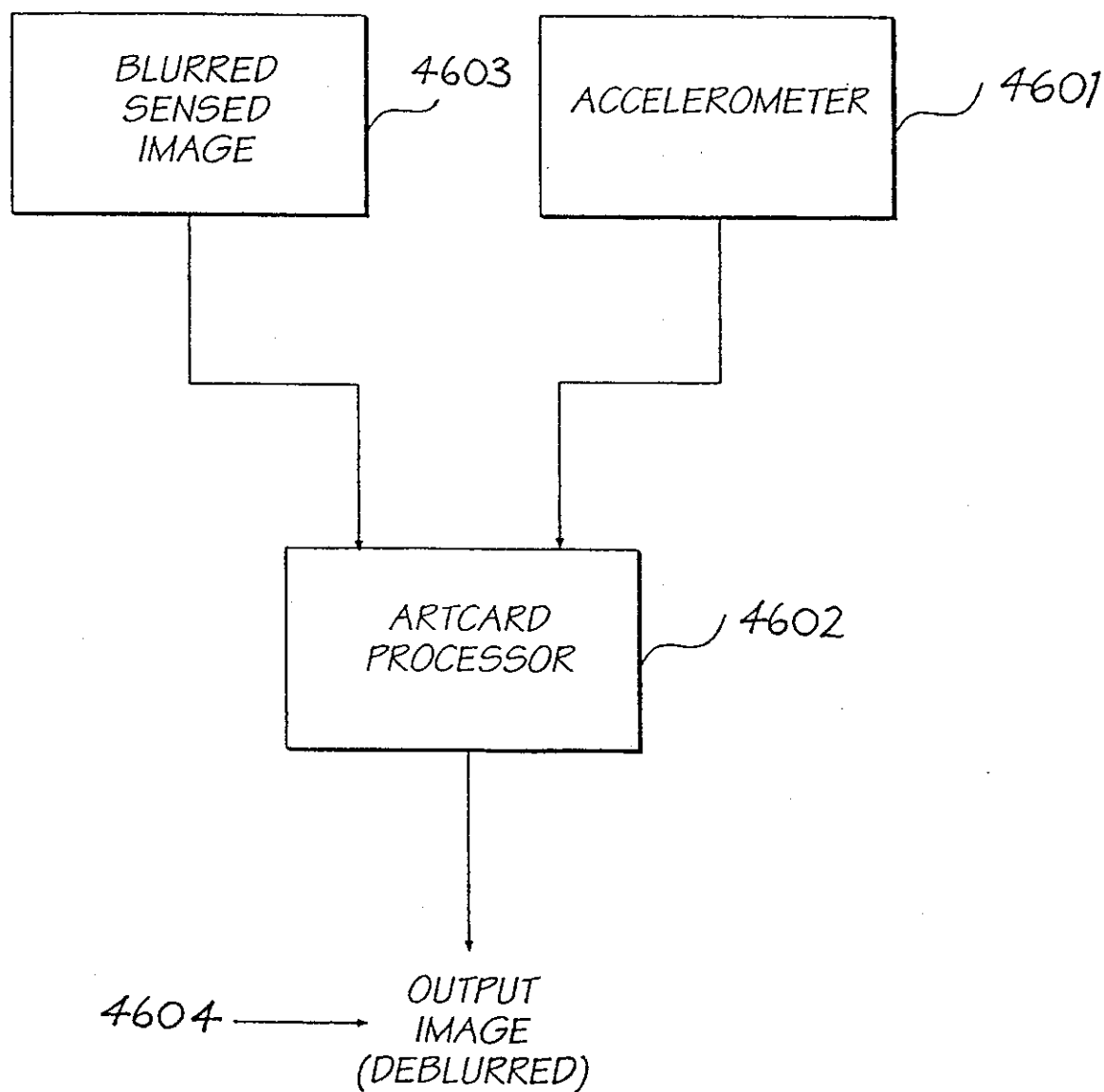


FIG. 294

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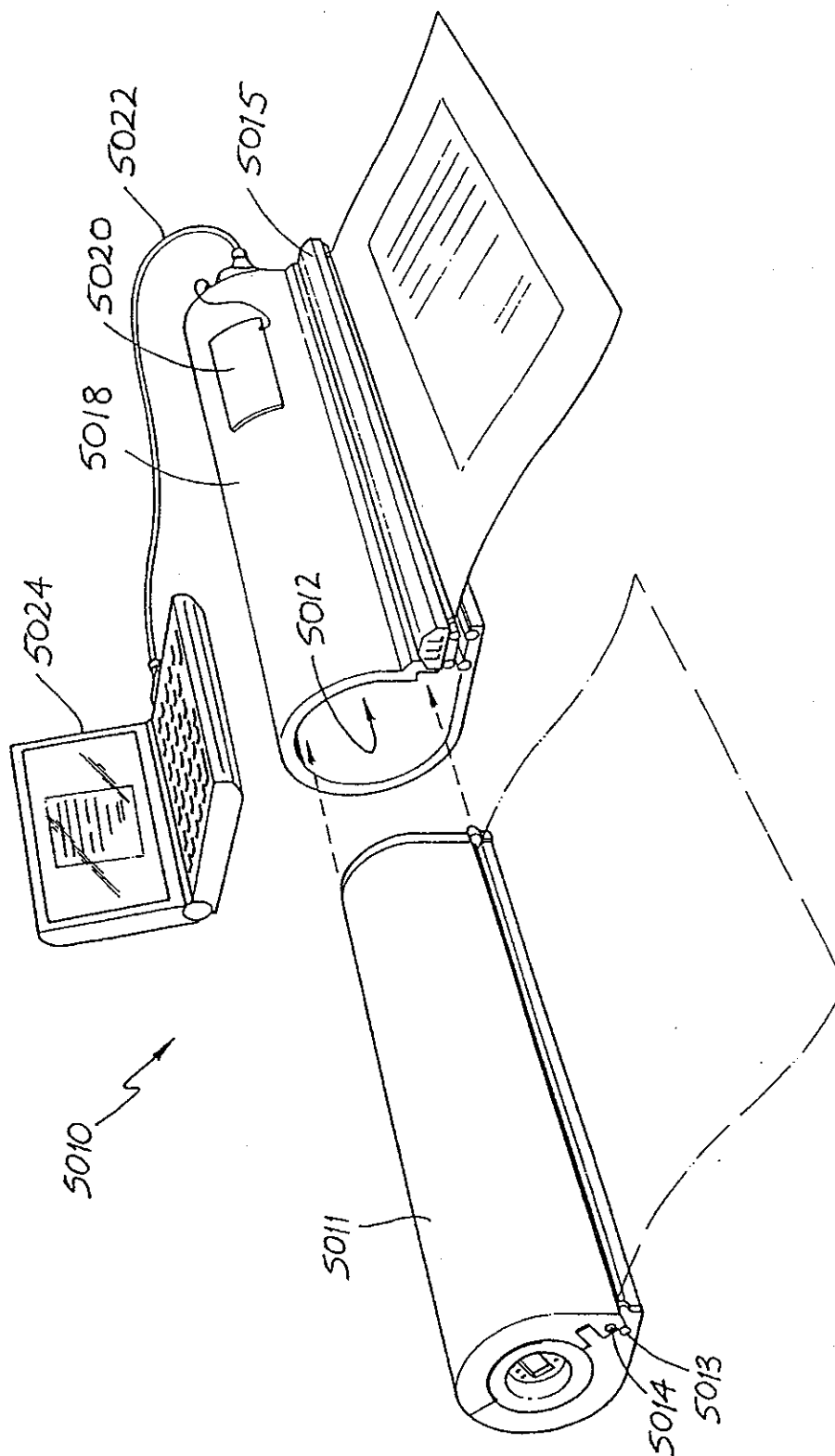


FIG. 295

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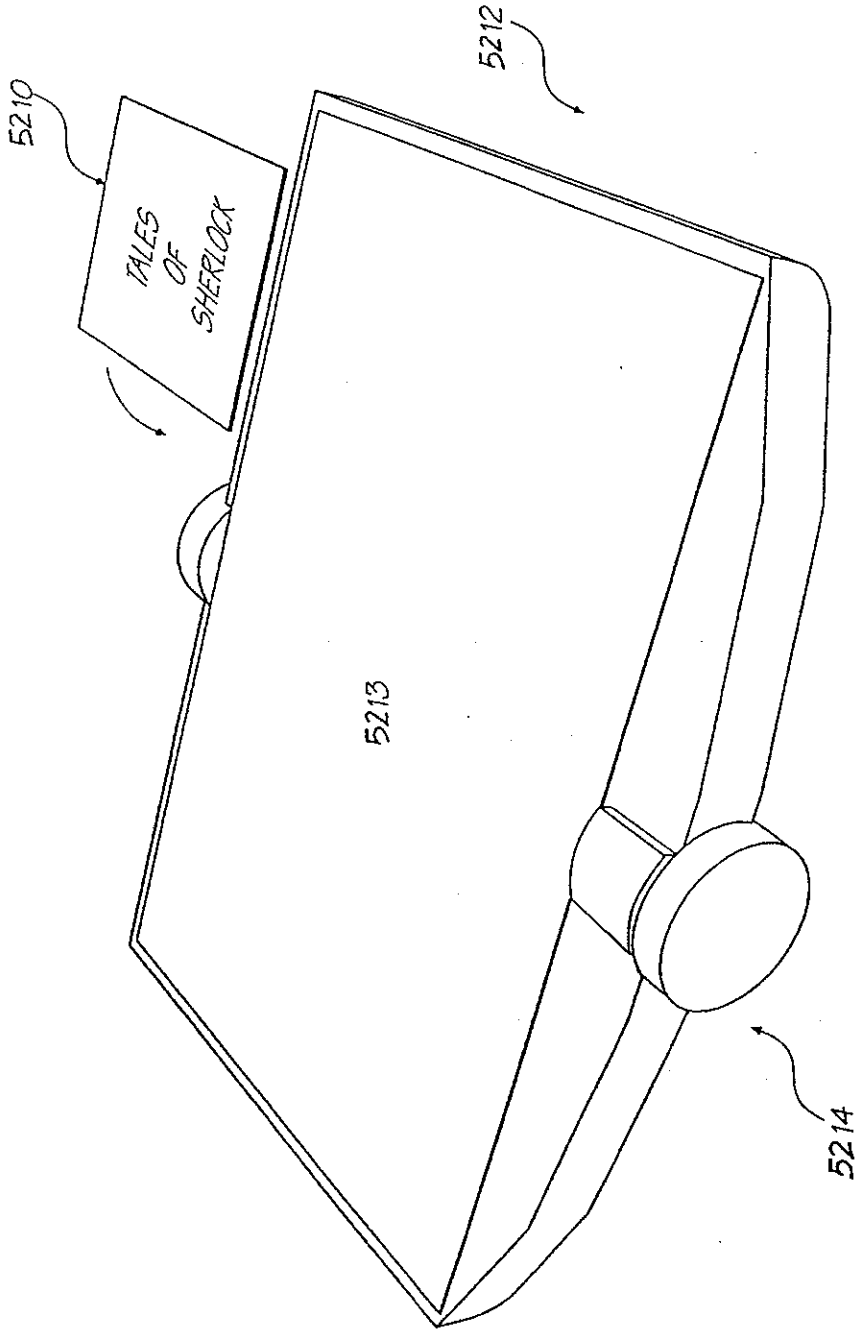


FIG. 296

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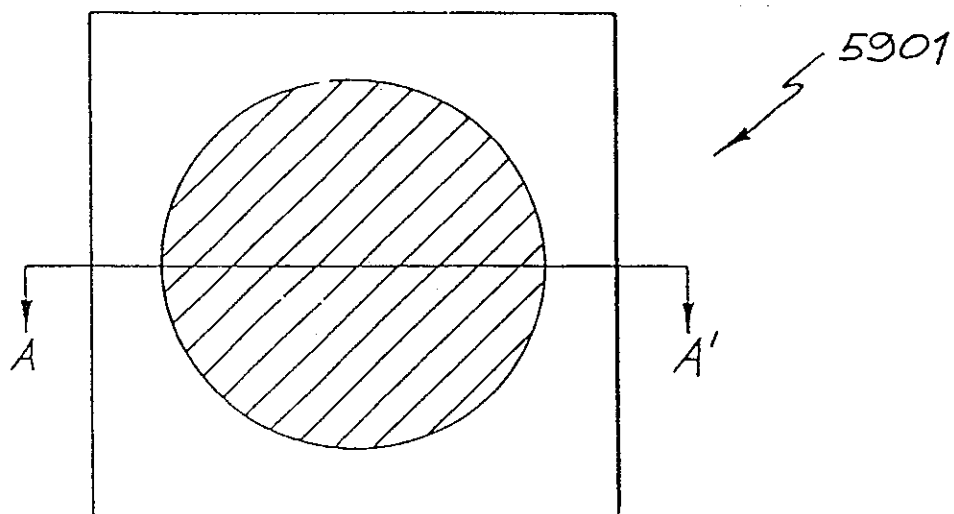


FIG. 297



FIG. 298

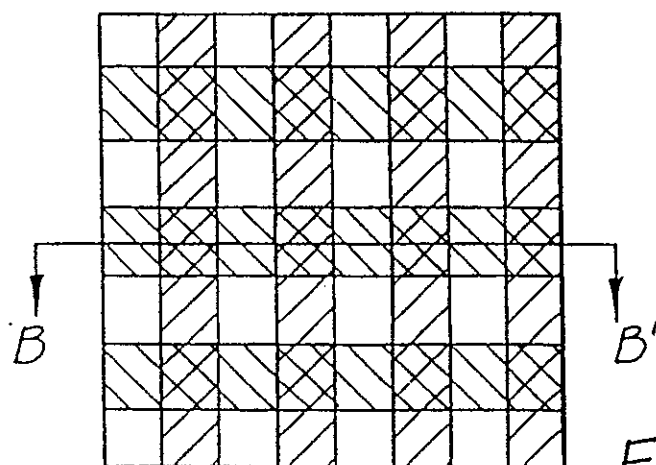


FIG. 299

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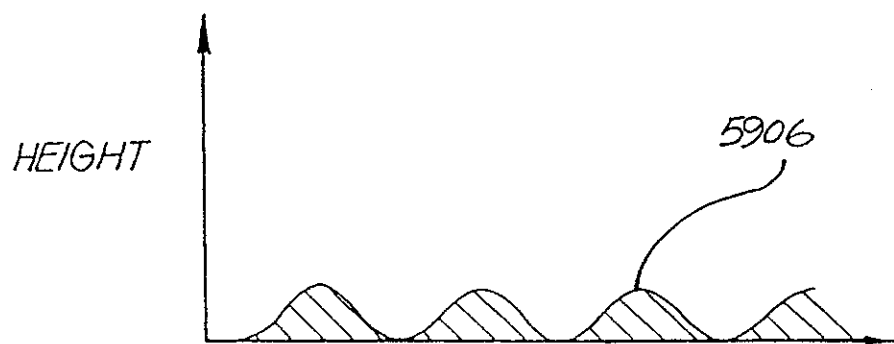


FIG. 300

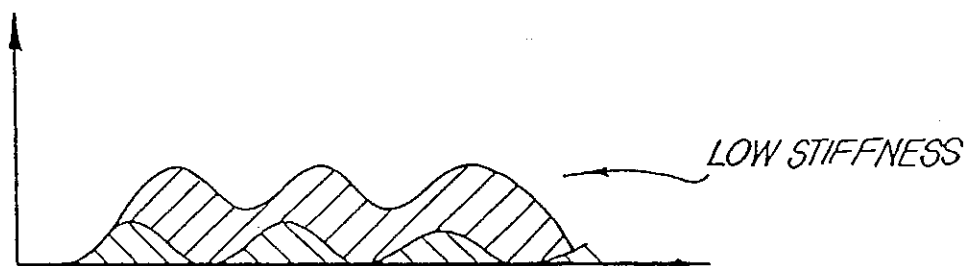


FIG. 301

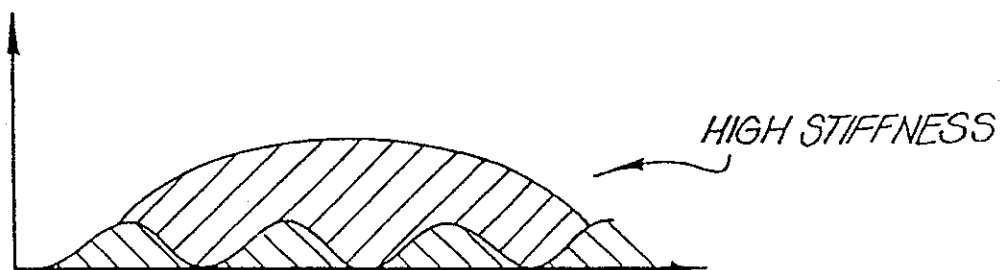


FIG. 302

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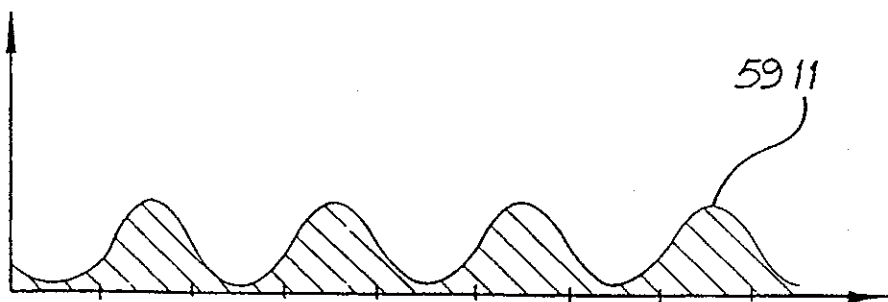


FIG. 303

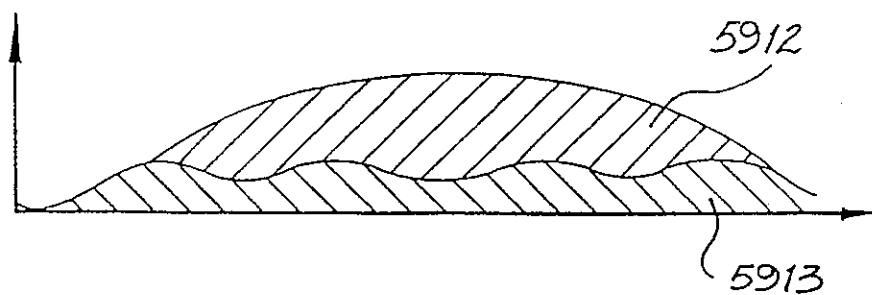


FIG. 304

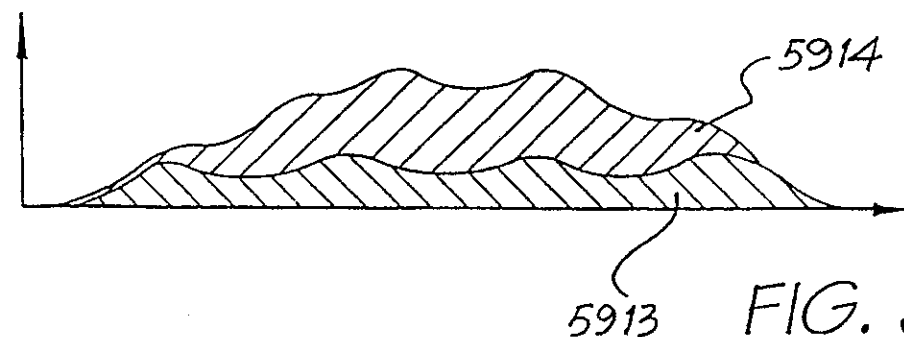


FIG. 305

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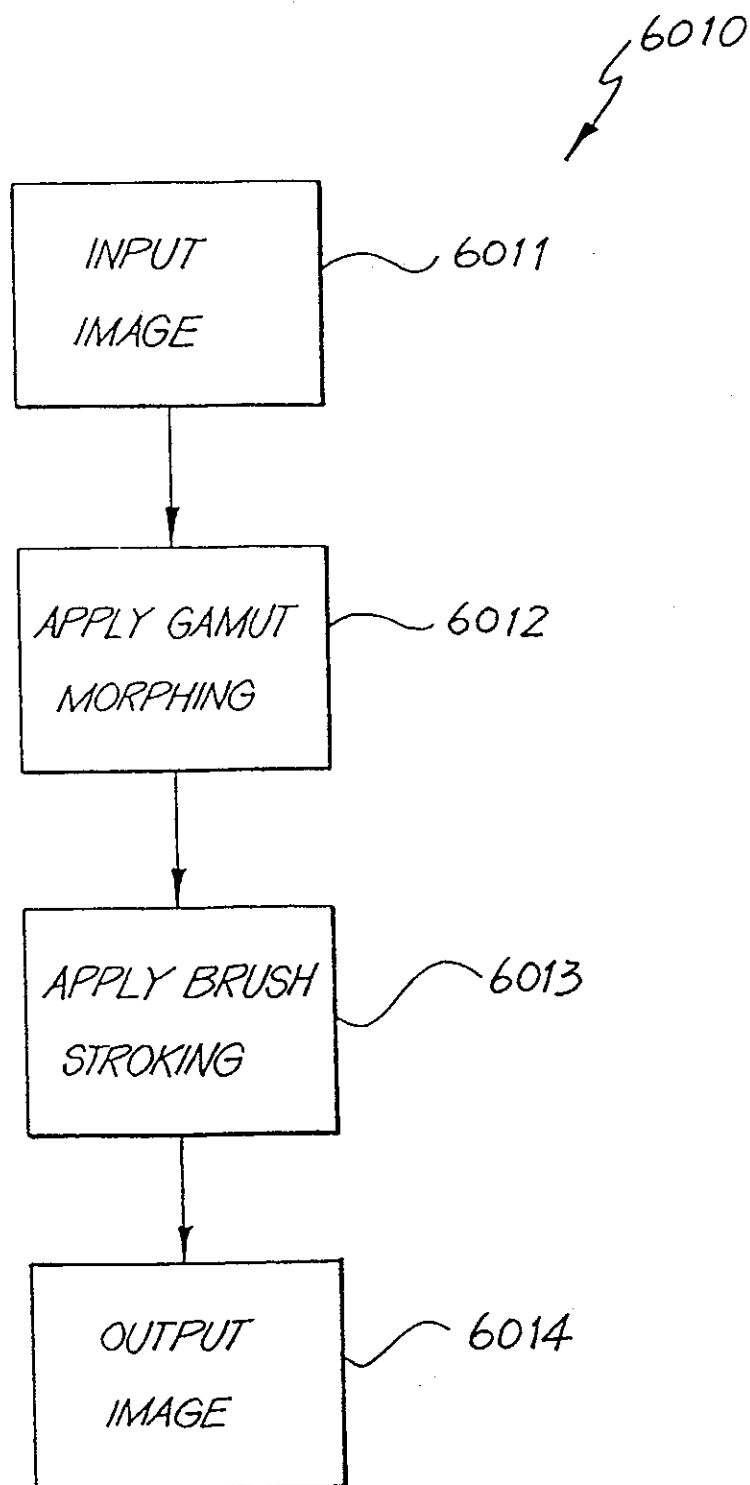


FIG. 306

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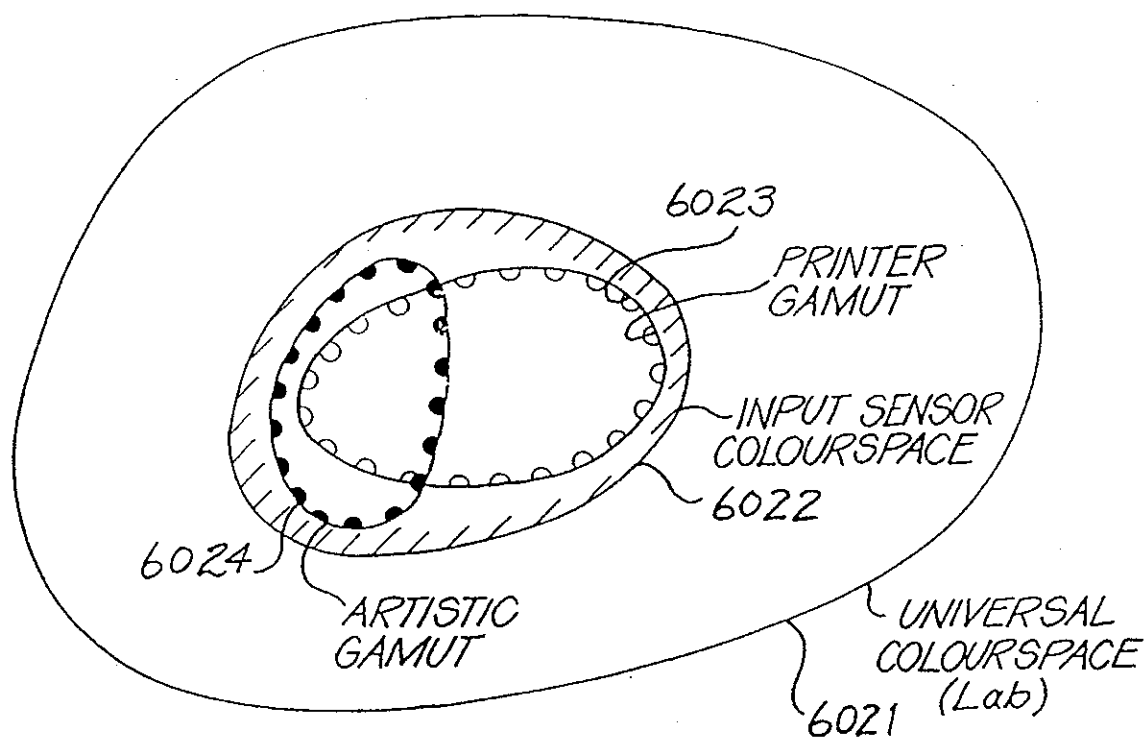


FIG. 307

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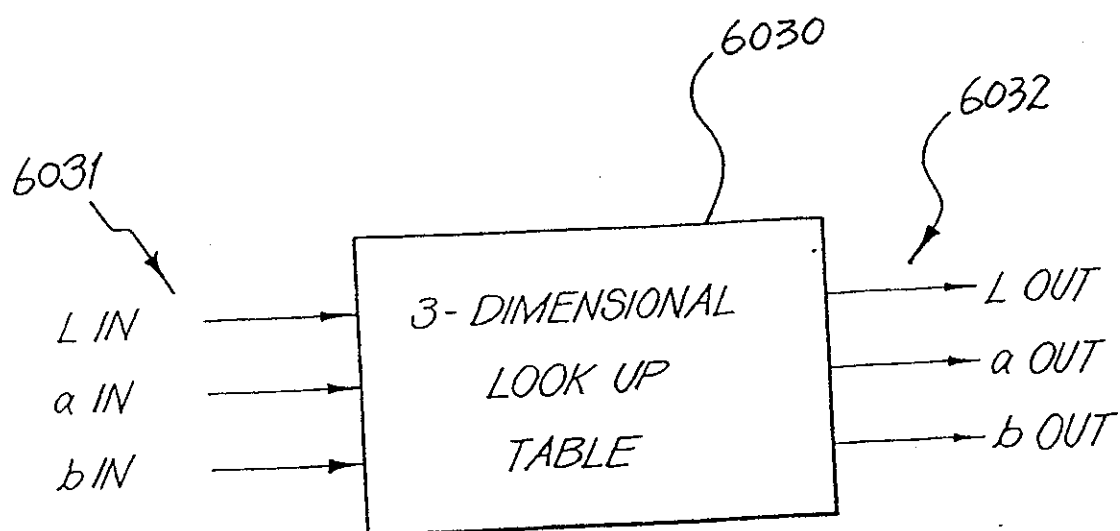


FIG. 308

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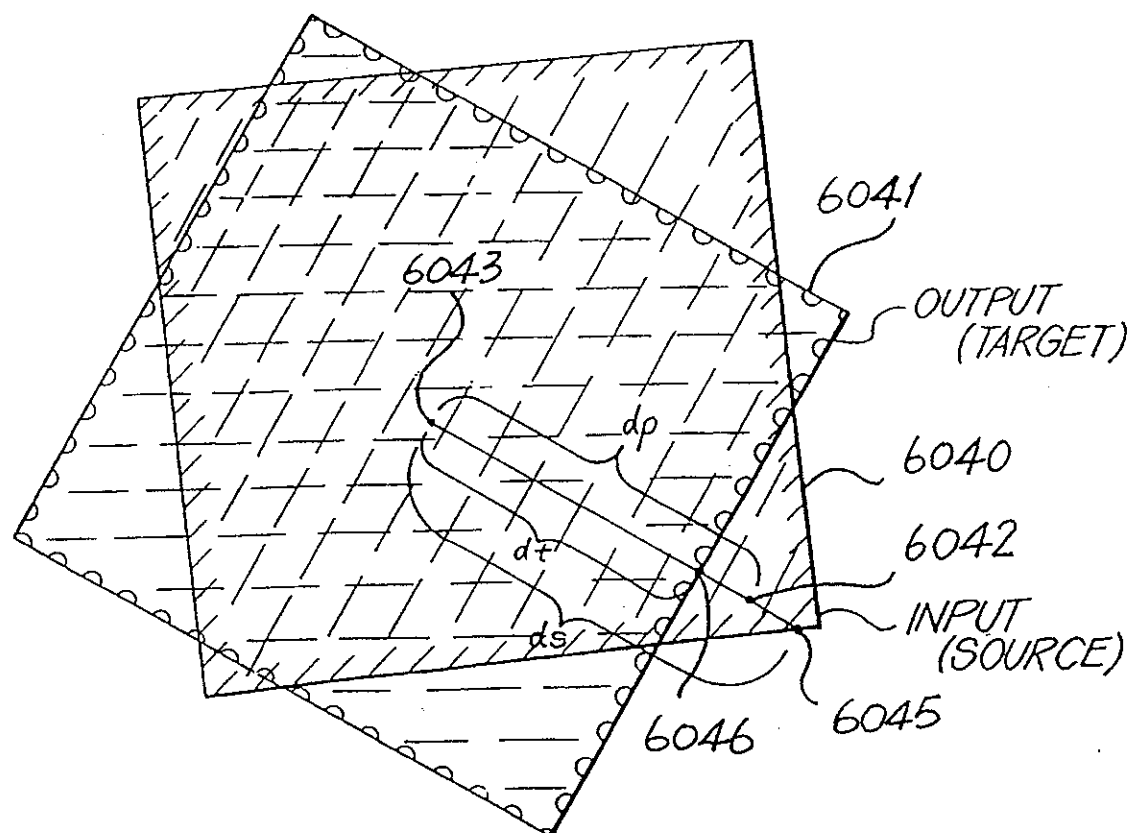


FIG. 309

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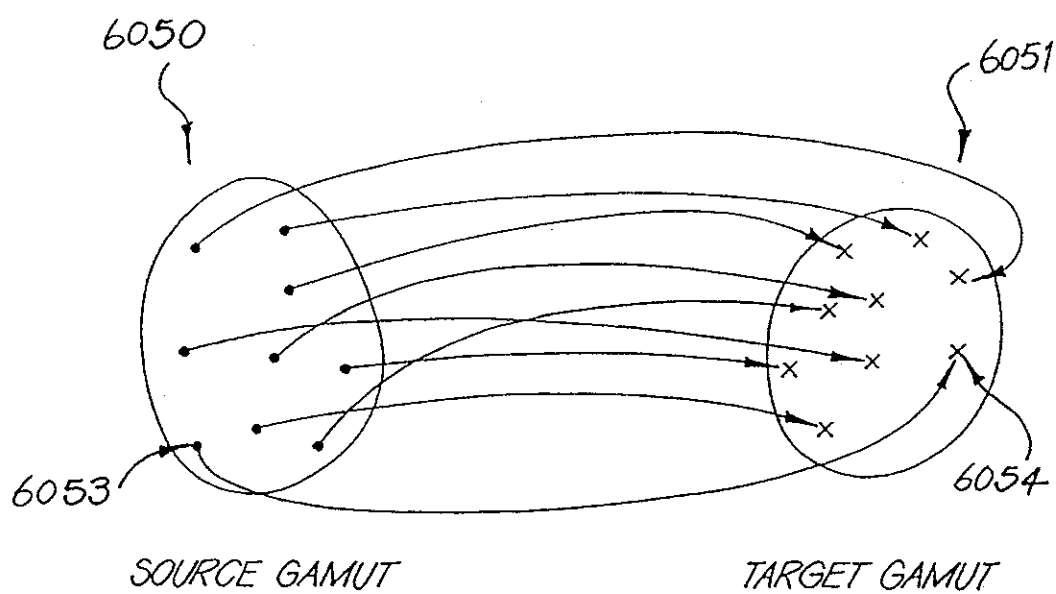


FIG. 310

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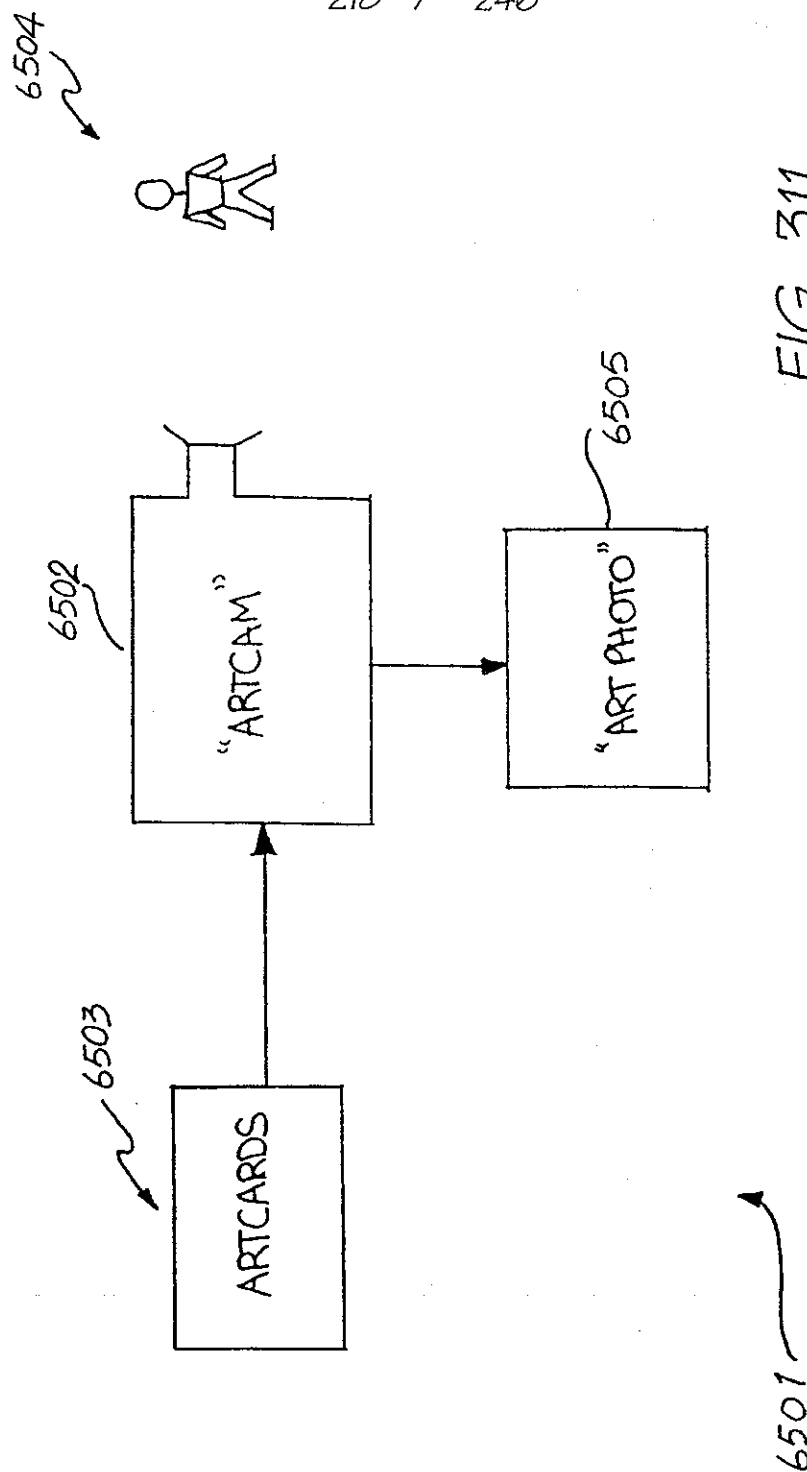


FIG. 311

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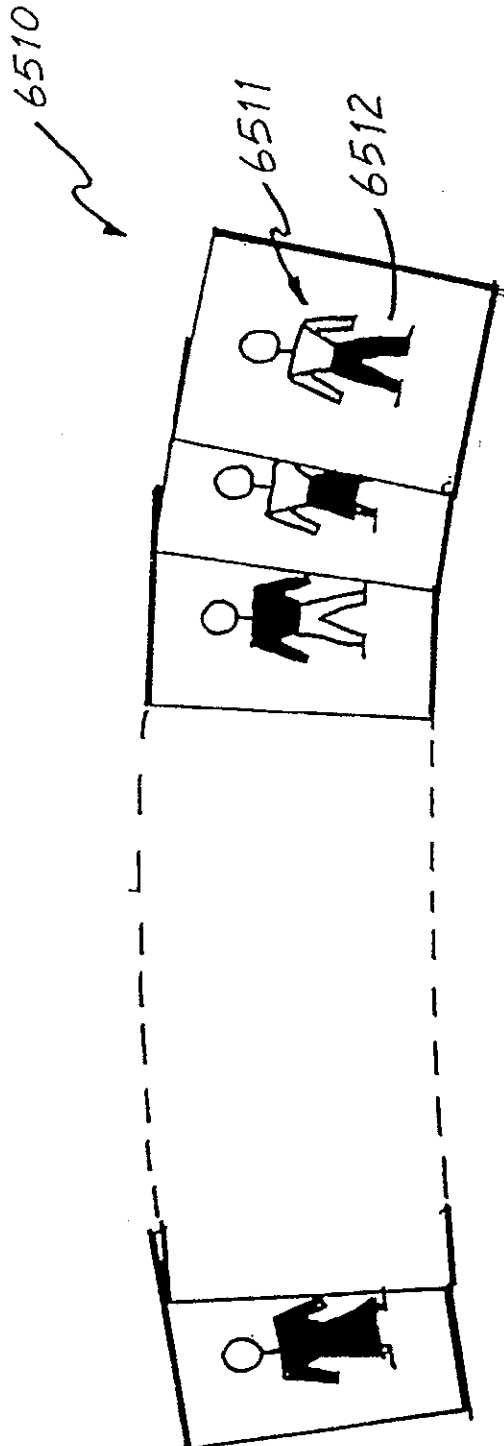


FIG. 312

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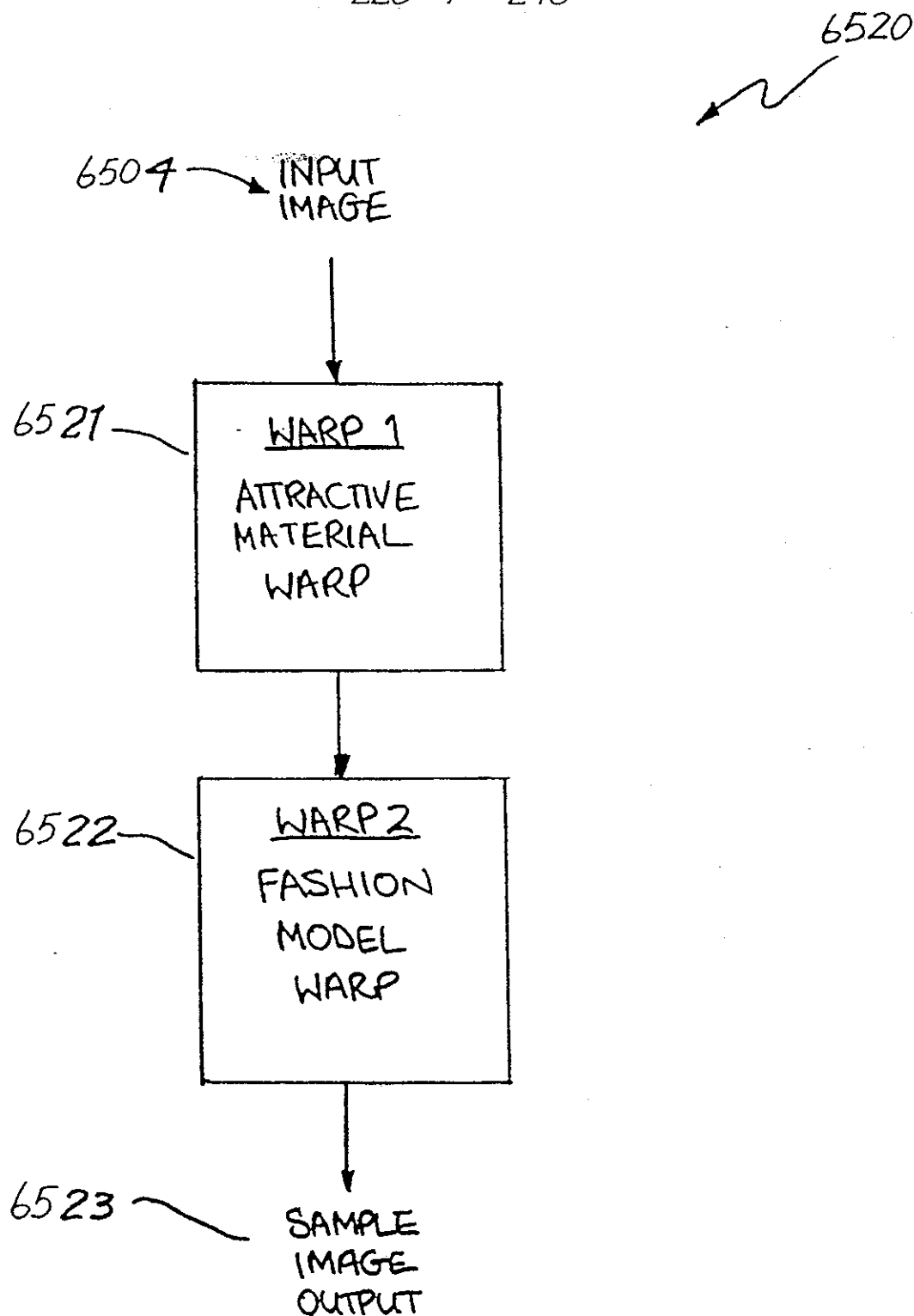


FIG. 313

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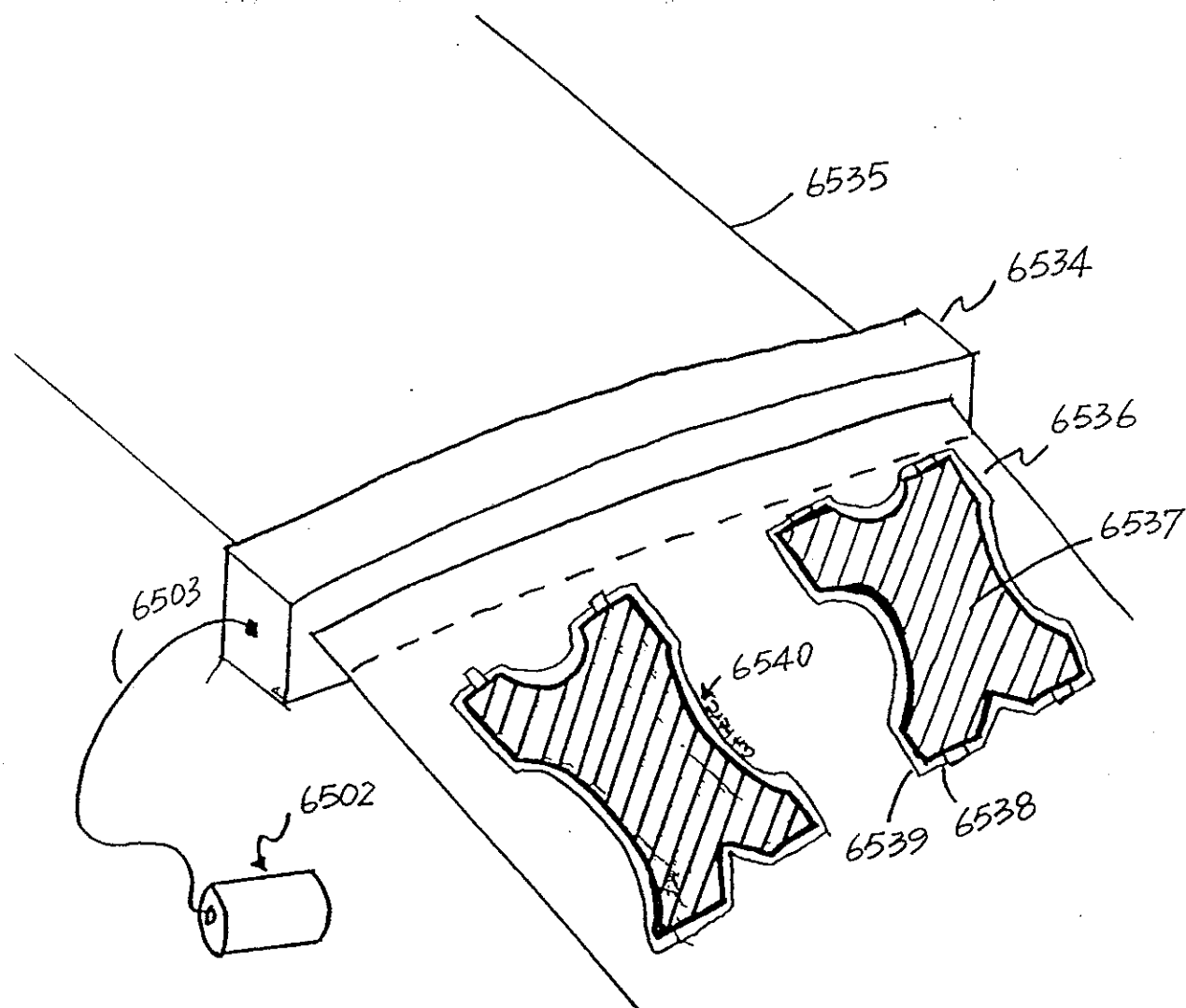


FIG. 314

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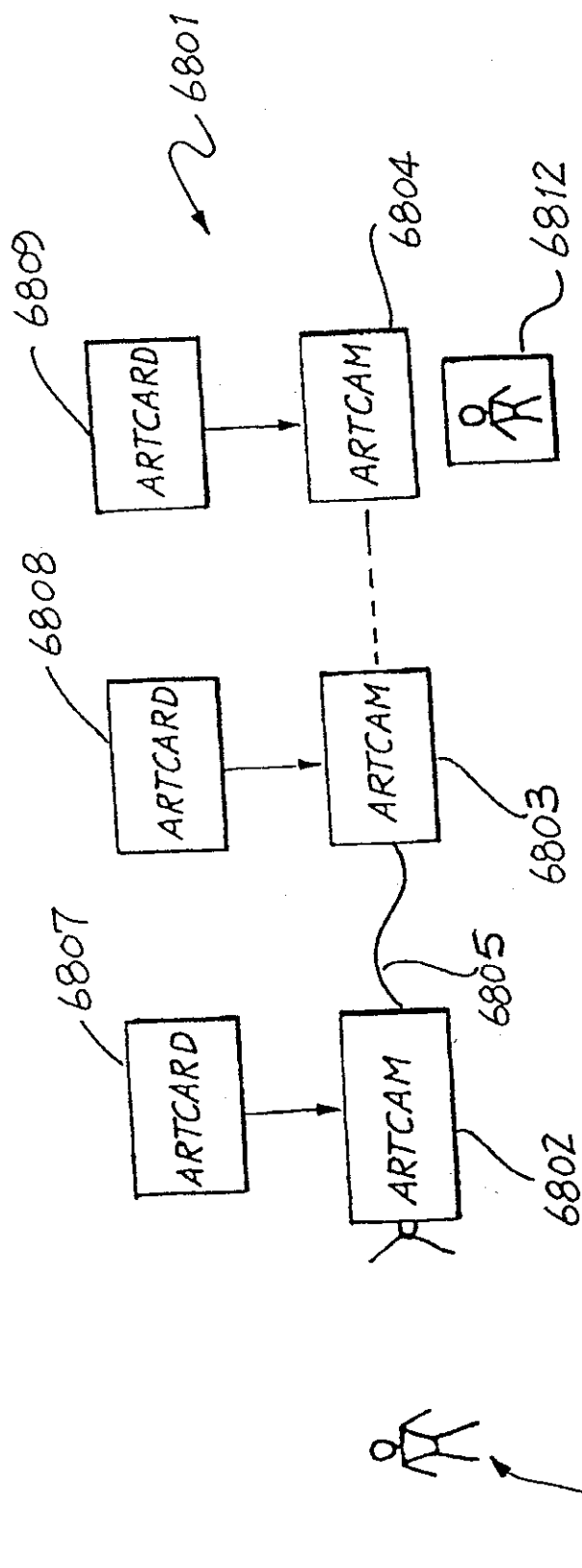


FIG. 315

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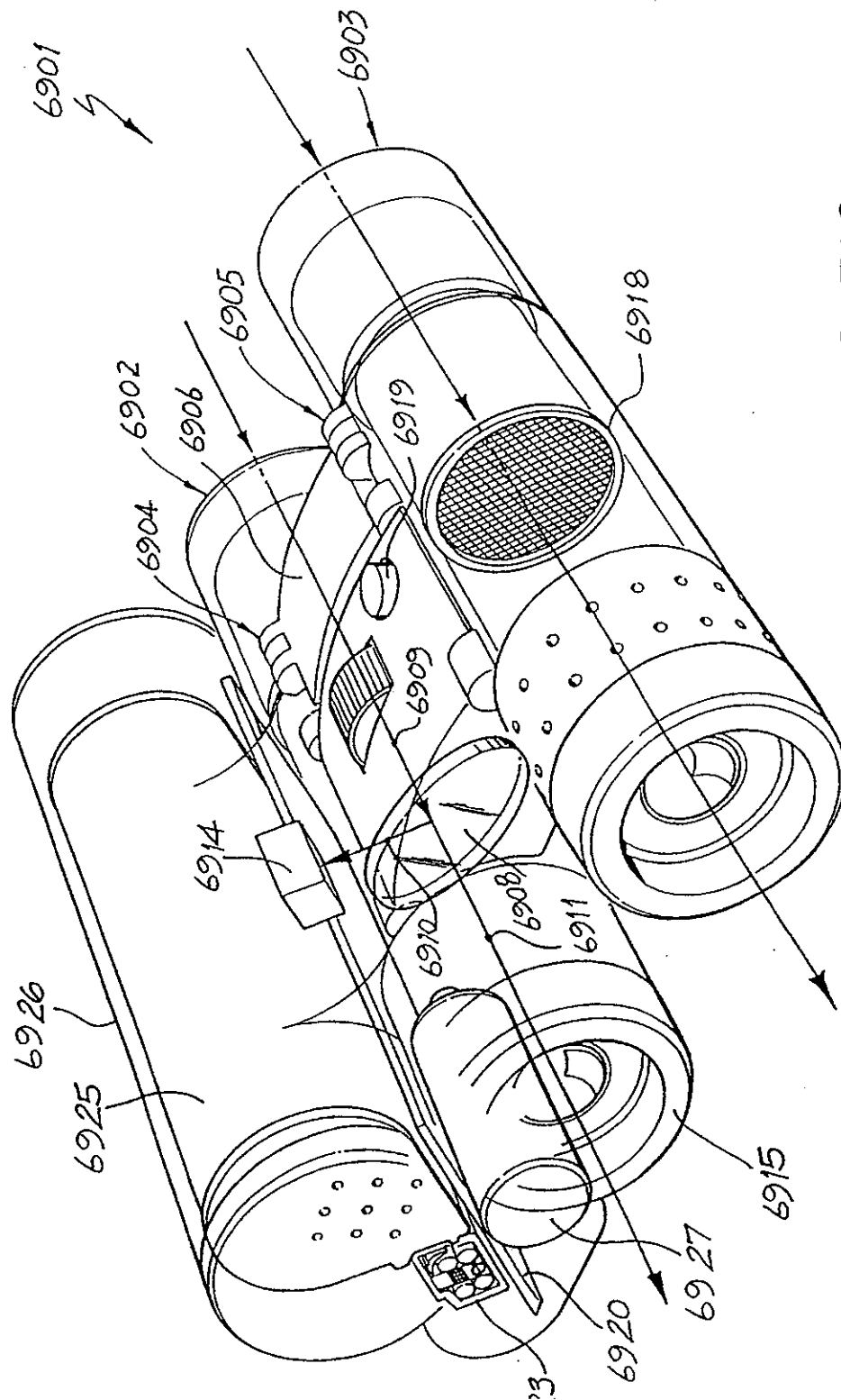


FIG. 316

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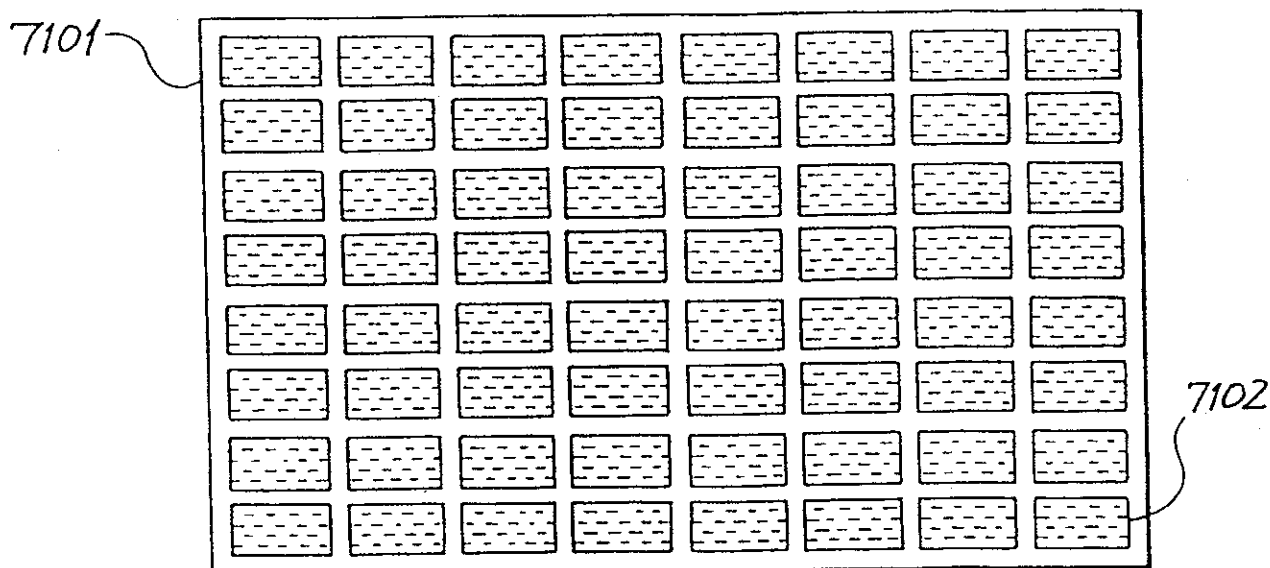


FIG. 317

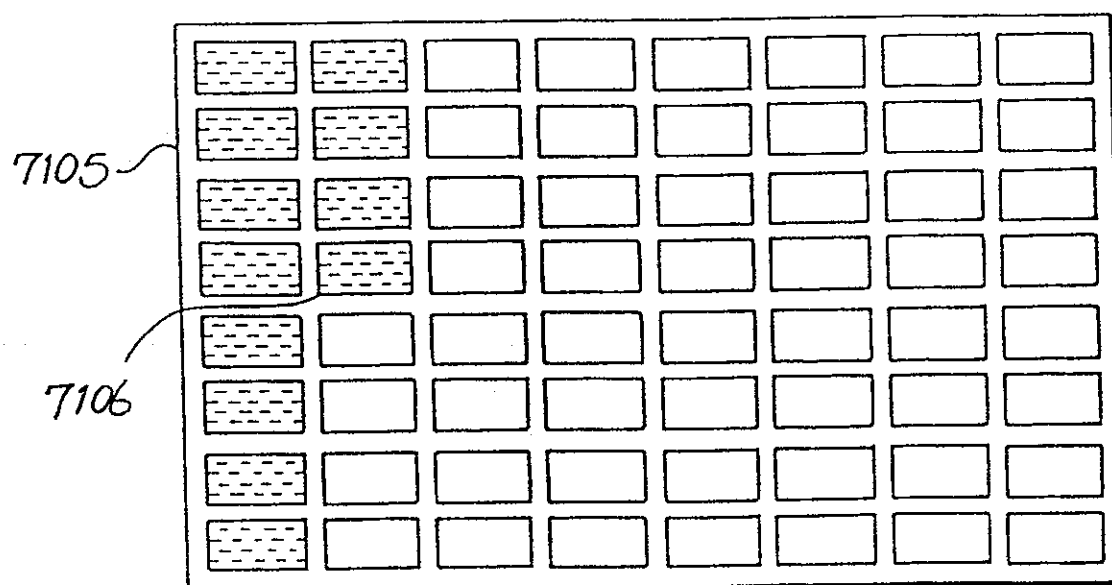


FIG. 318

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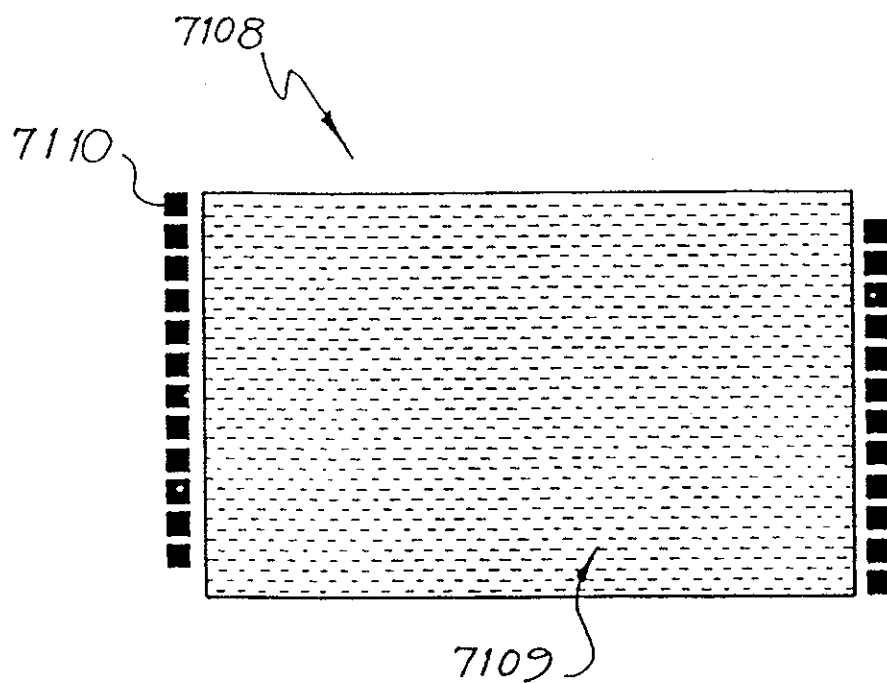


FIG. 319

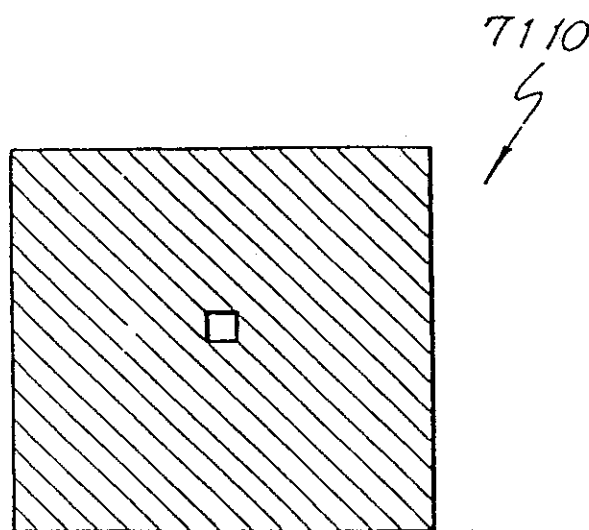


FIG. 320

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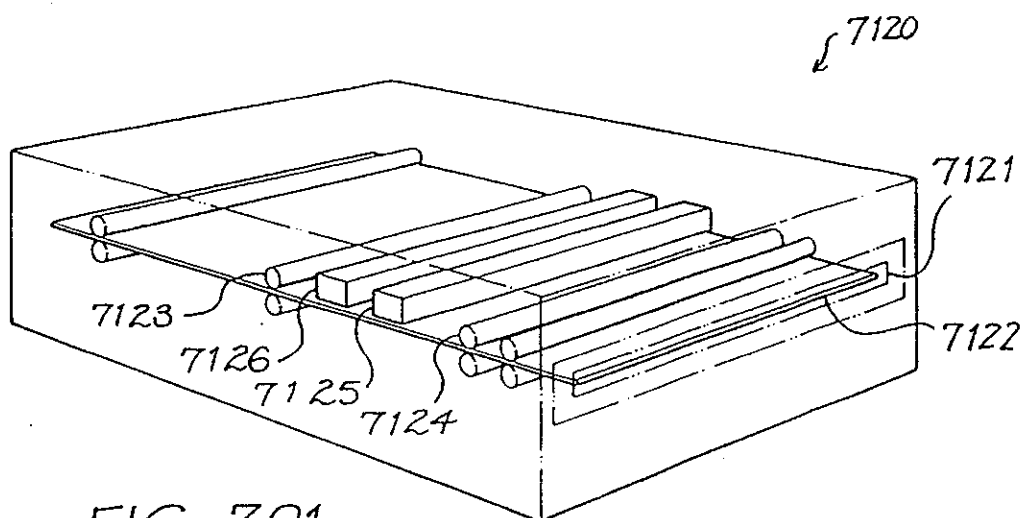


FIG. 321

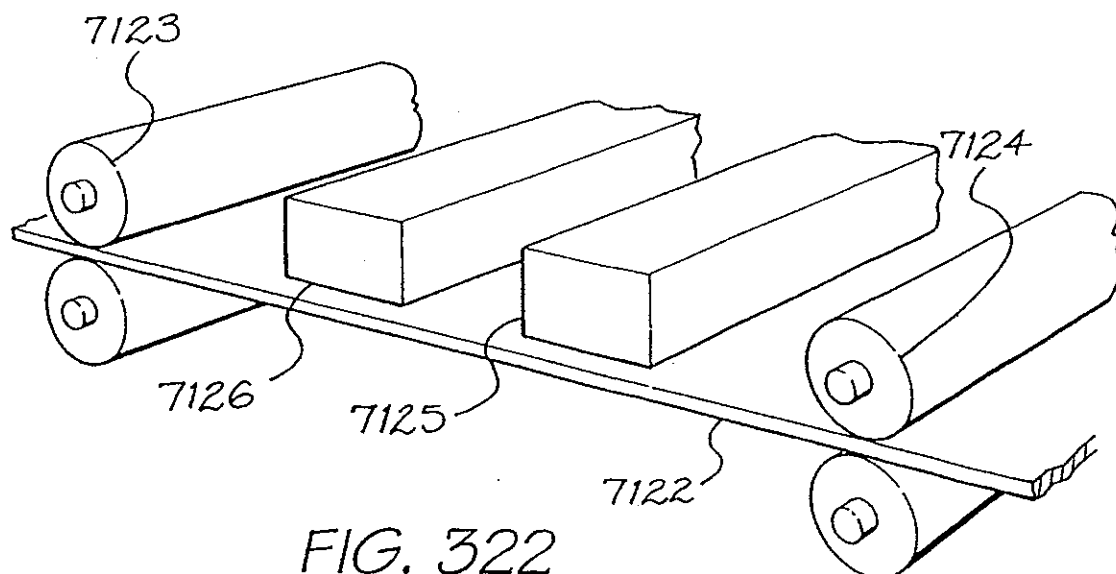
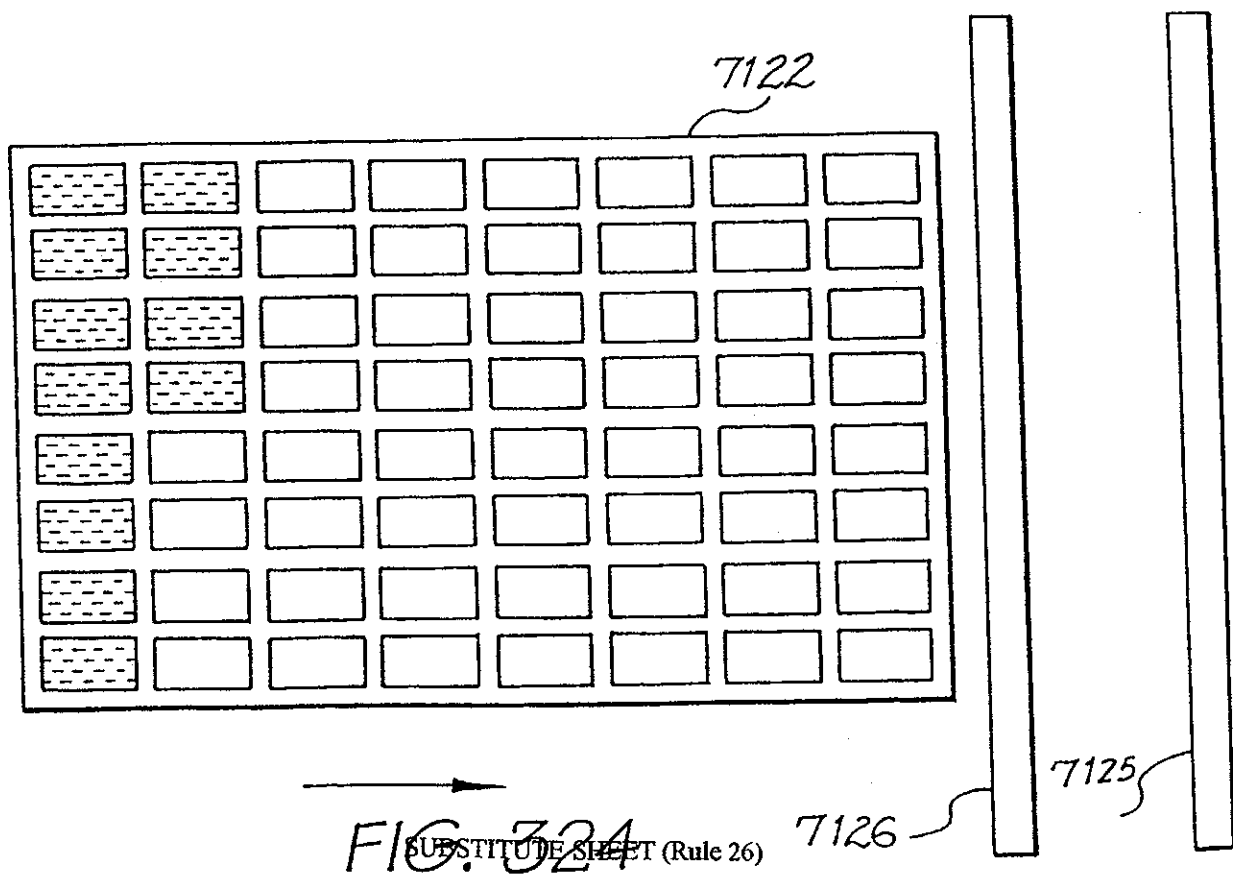
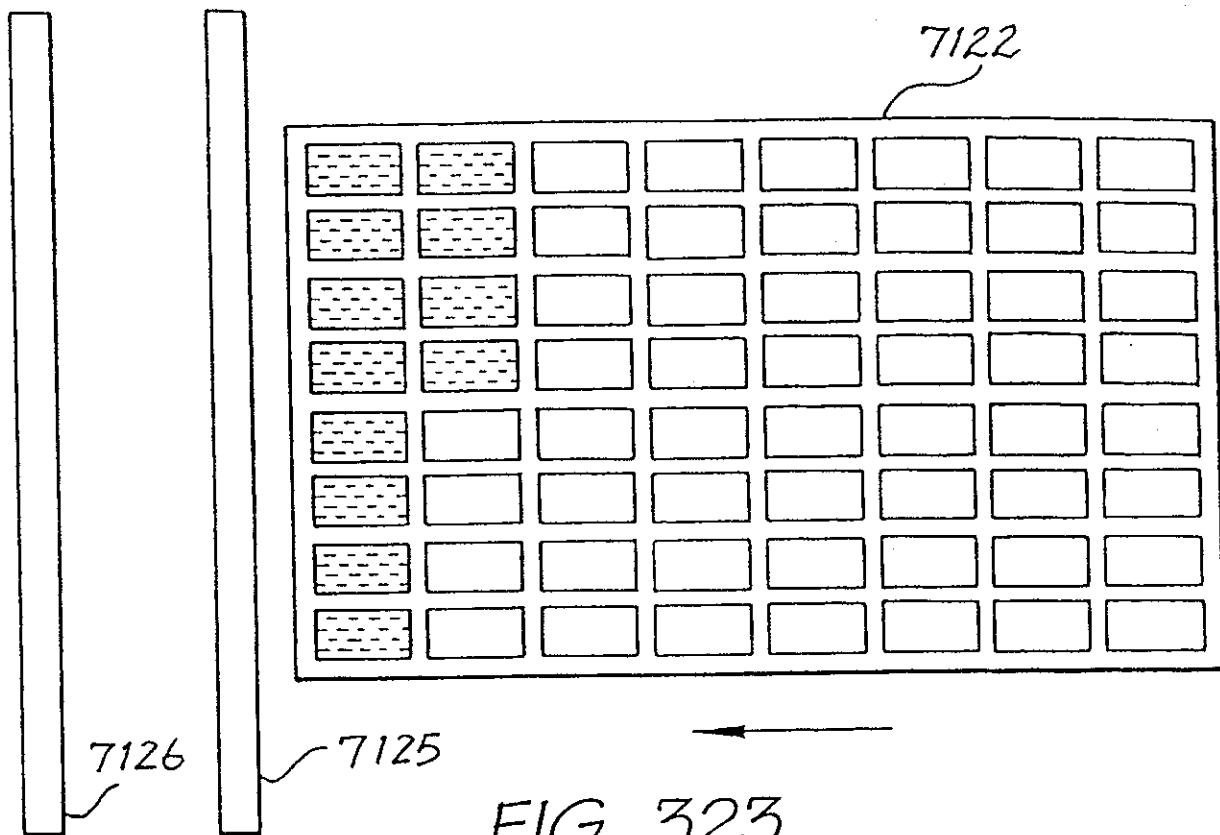
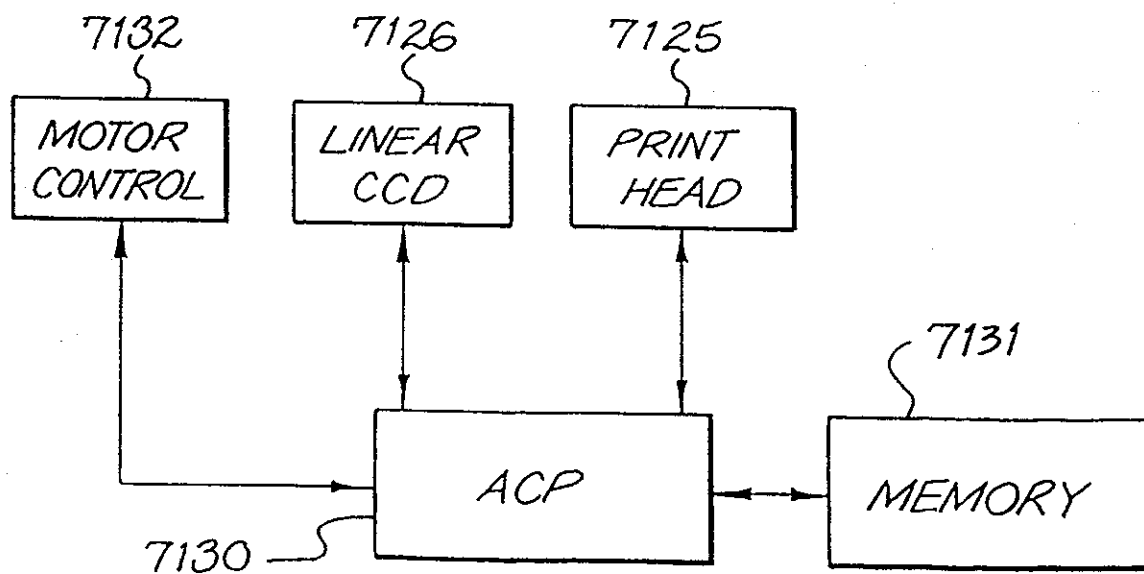
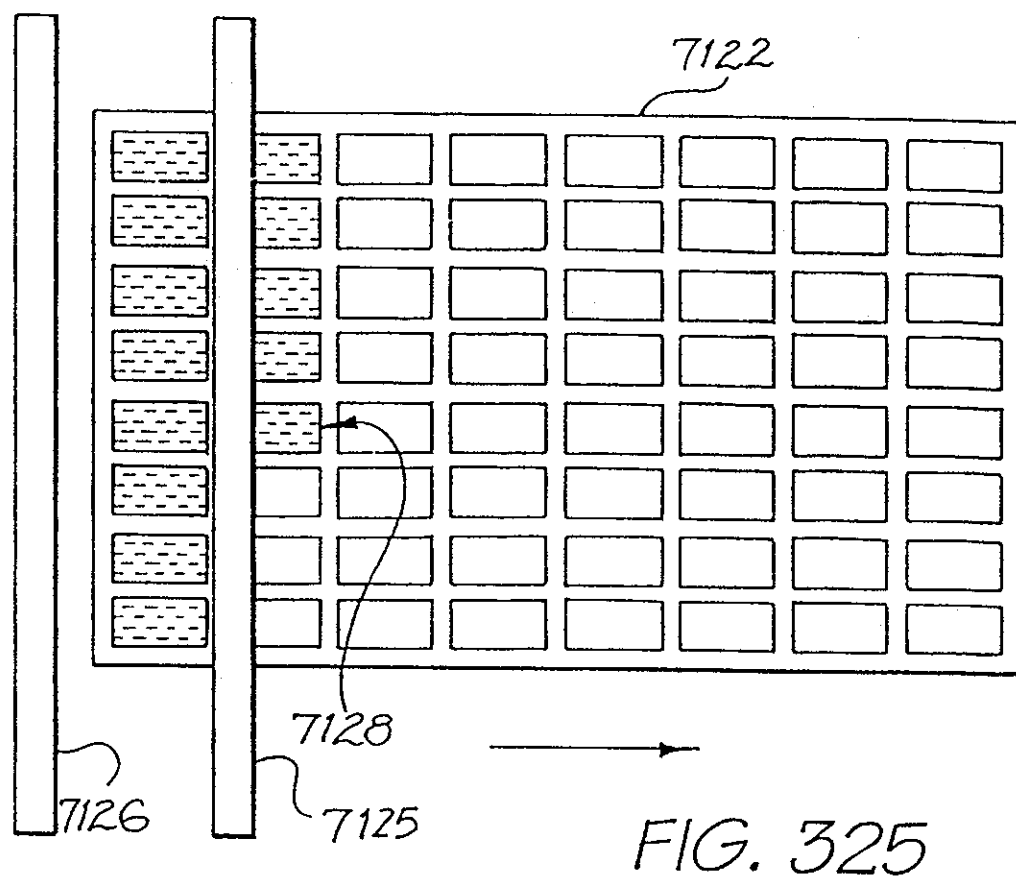


FIG. 322

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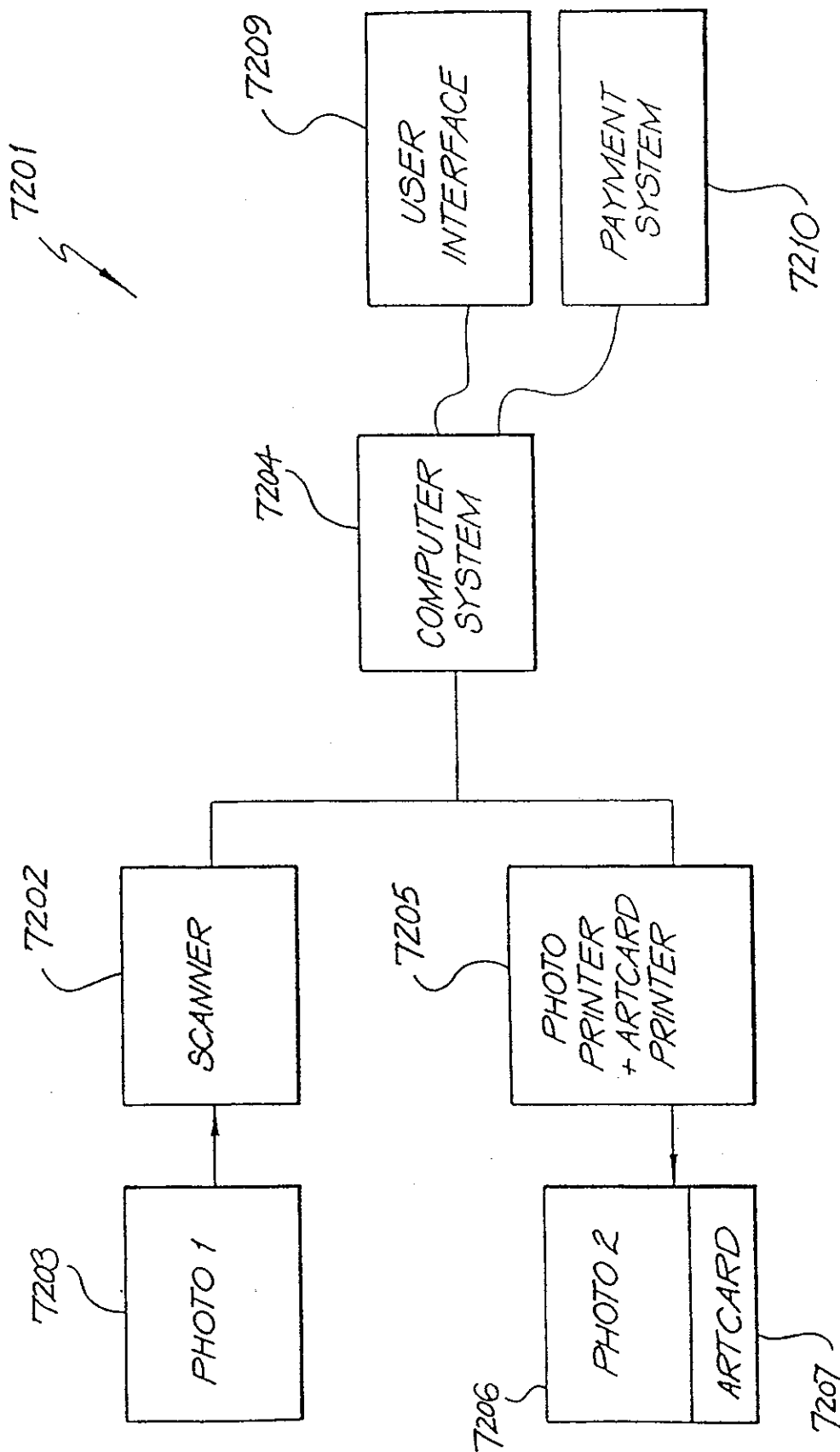


FIG. 327

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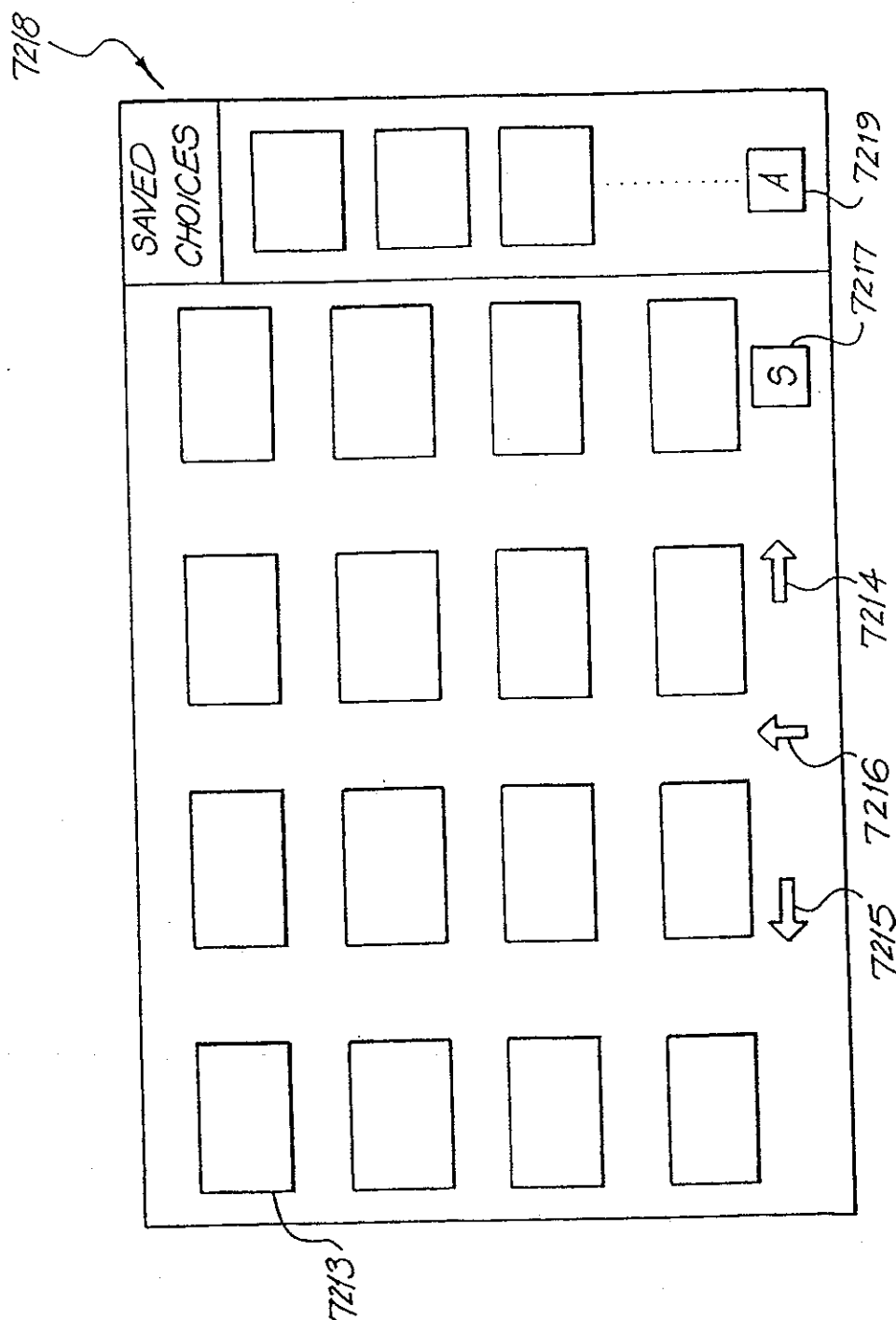


FIG. 328

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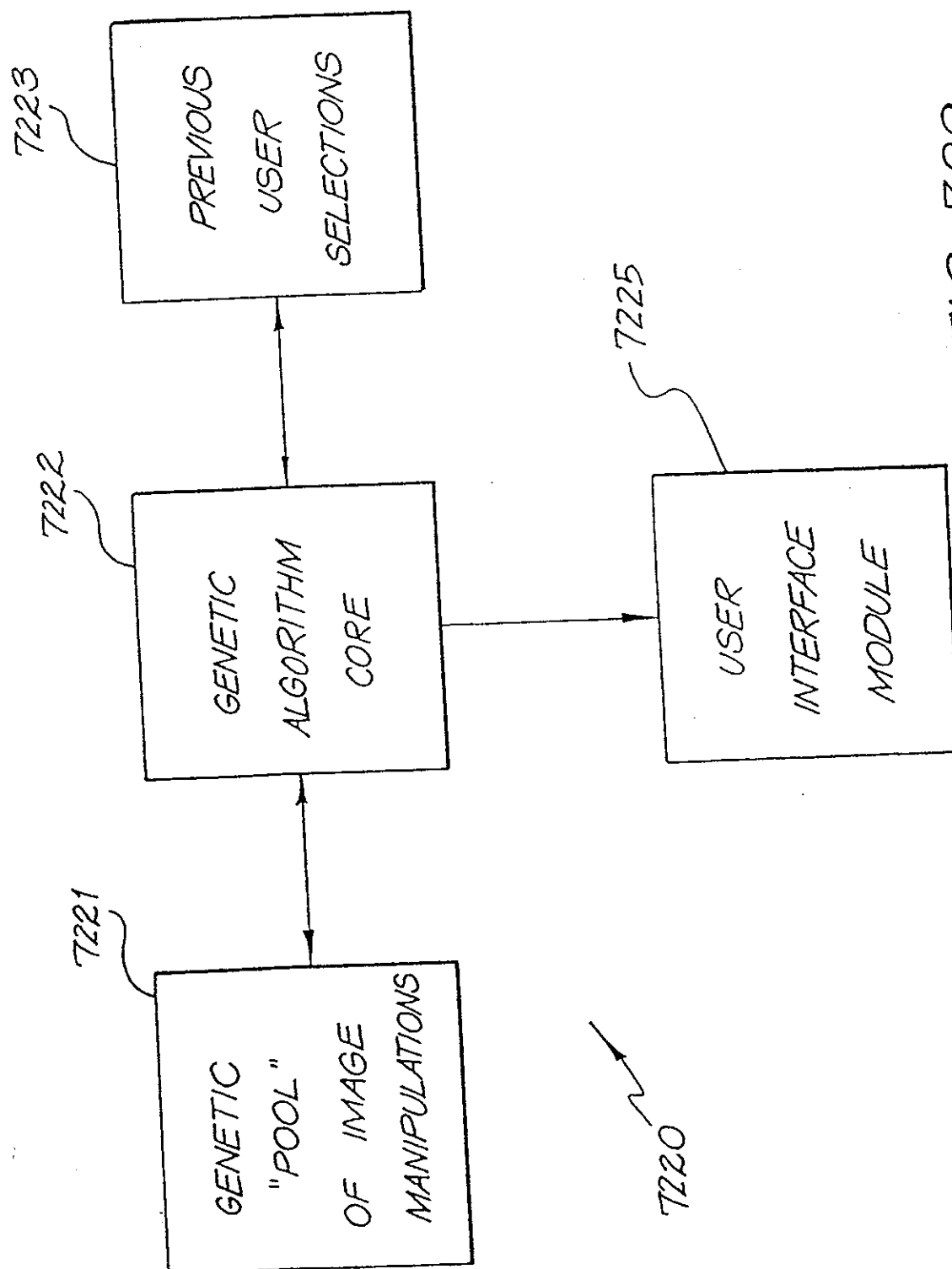


FIG. 329

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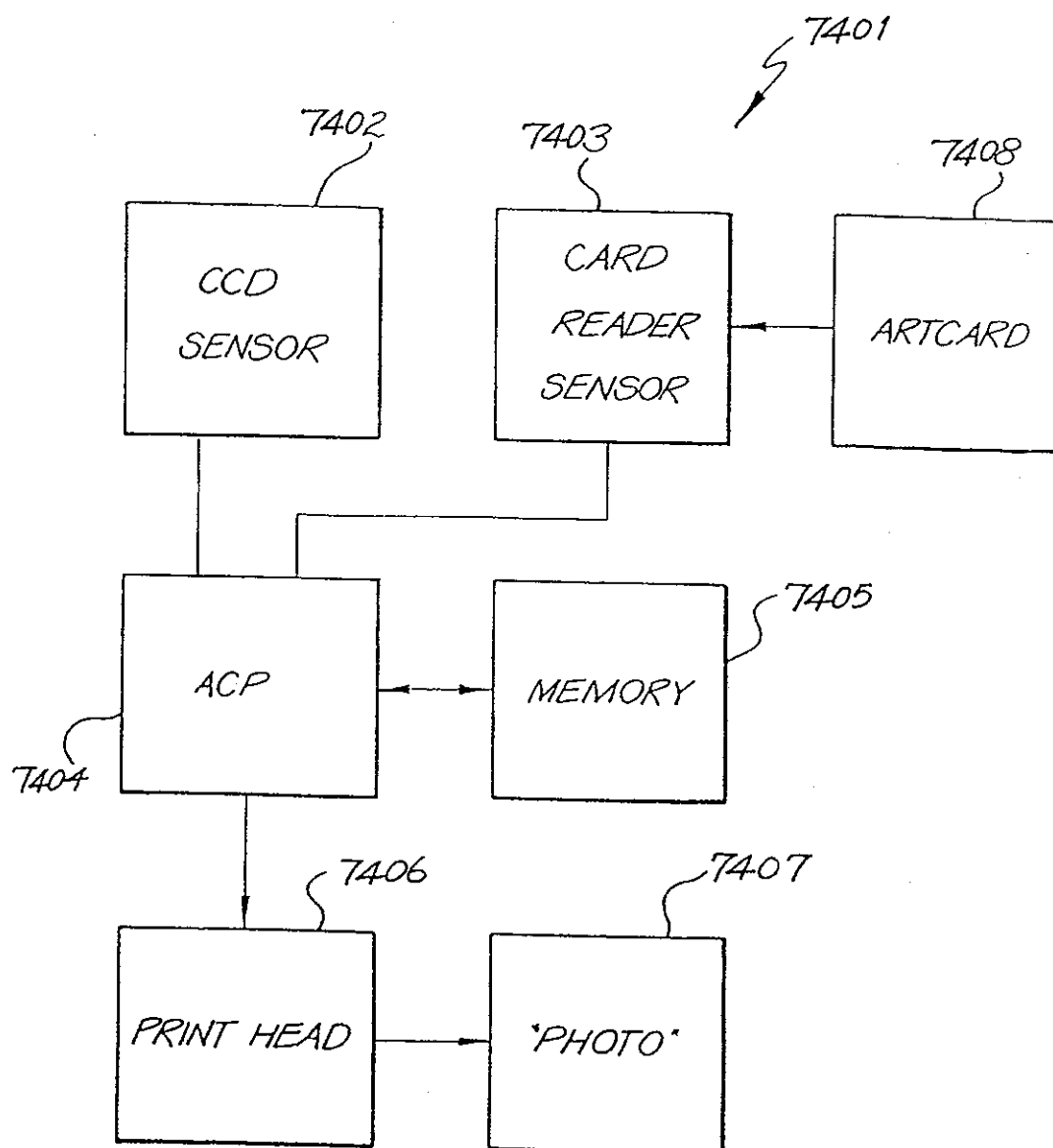


FIG. 330

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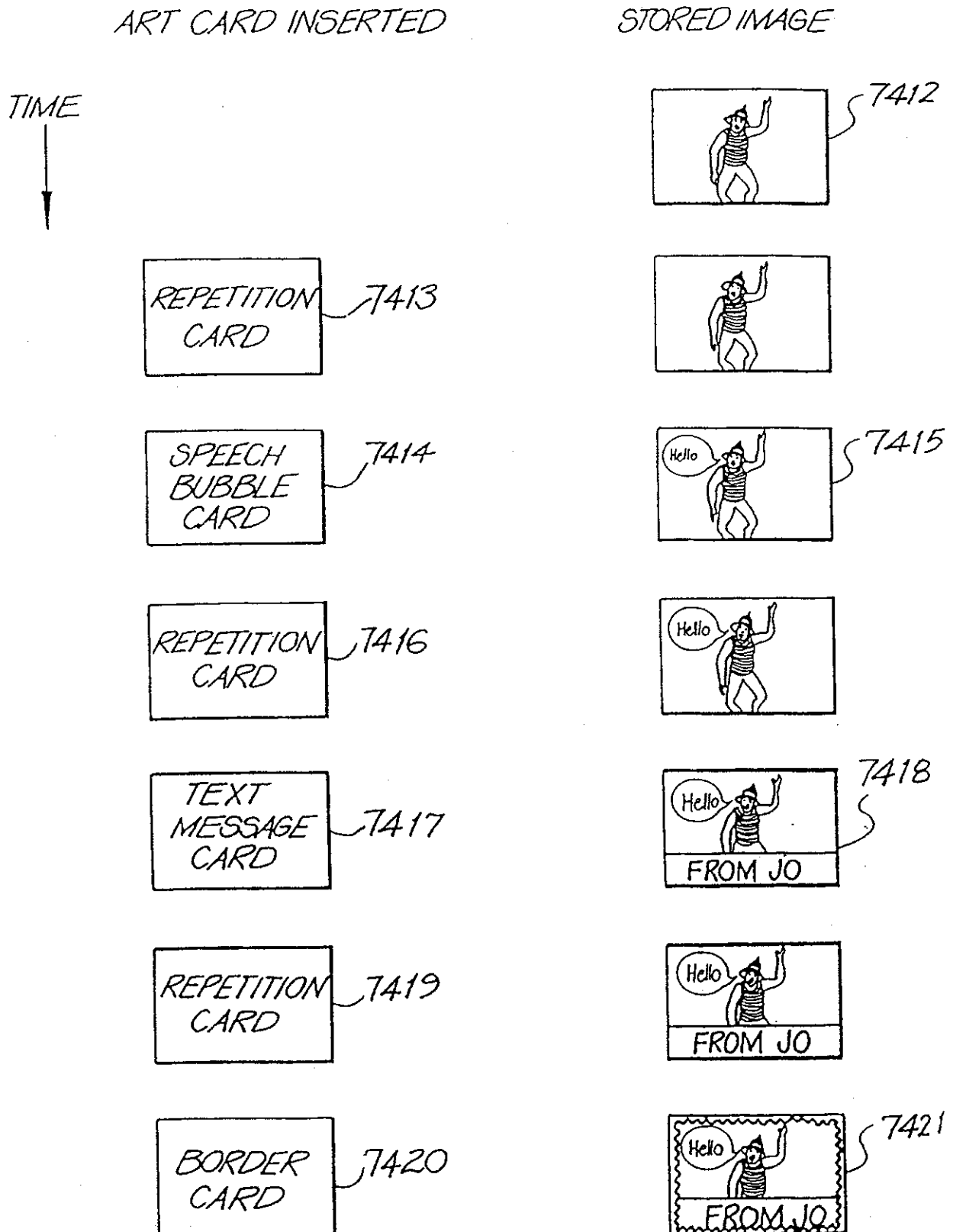


FIG. 331

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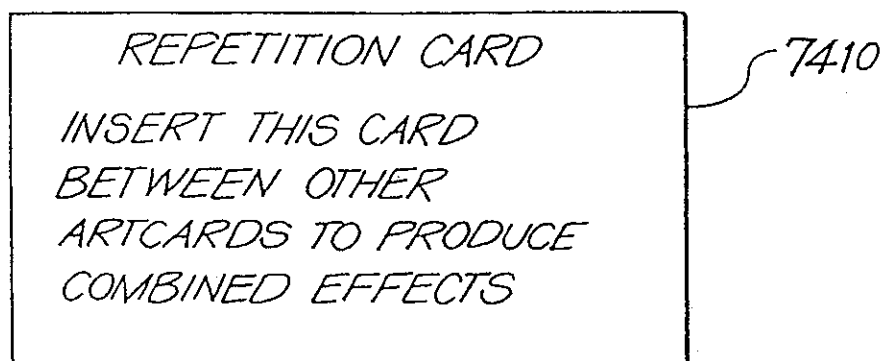


FIG. 332

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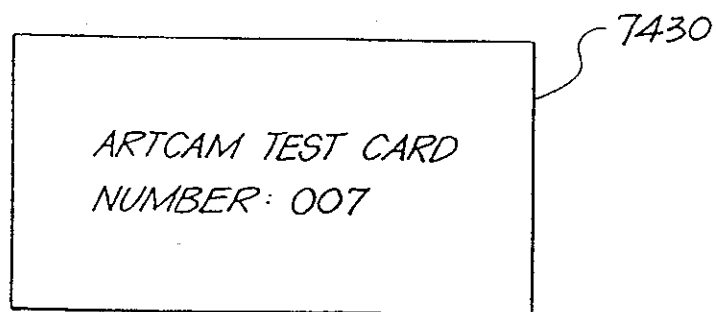


FIG. 333

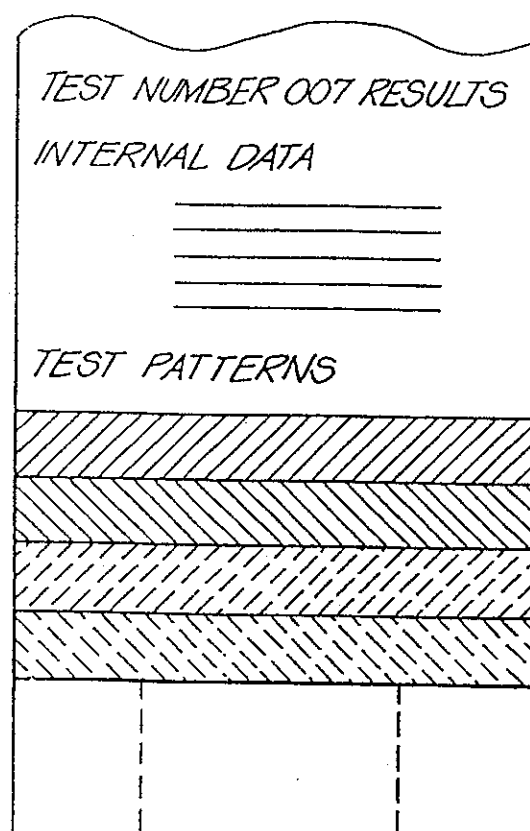


FIG. 334

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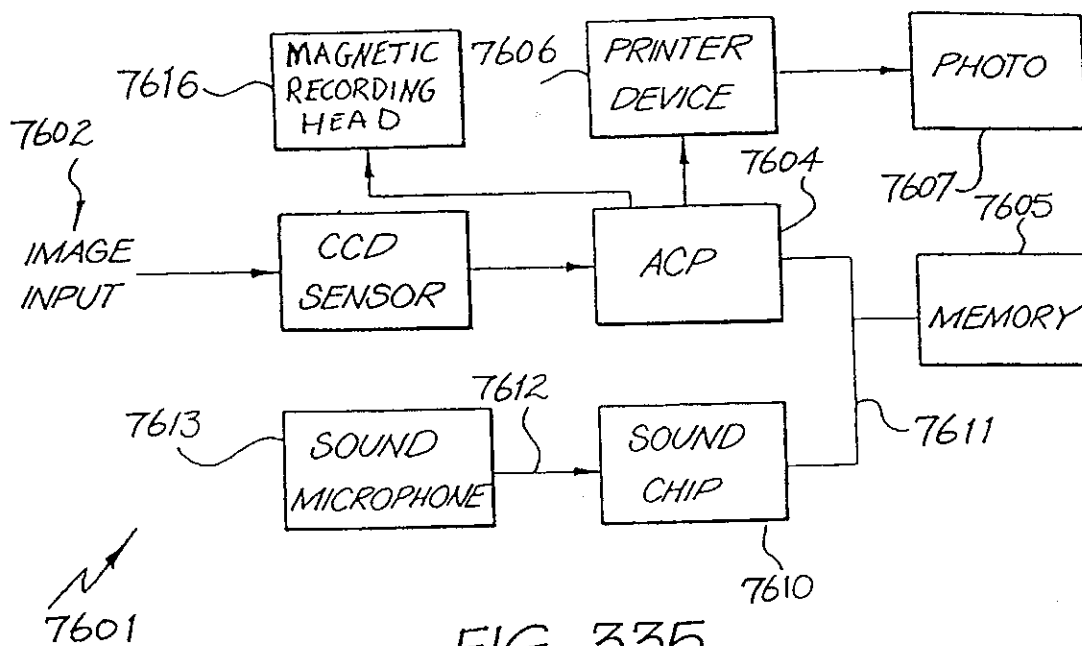


FIG. 335

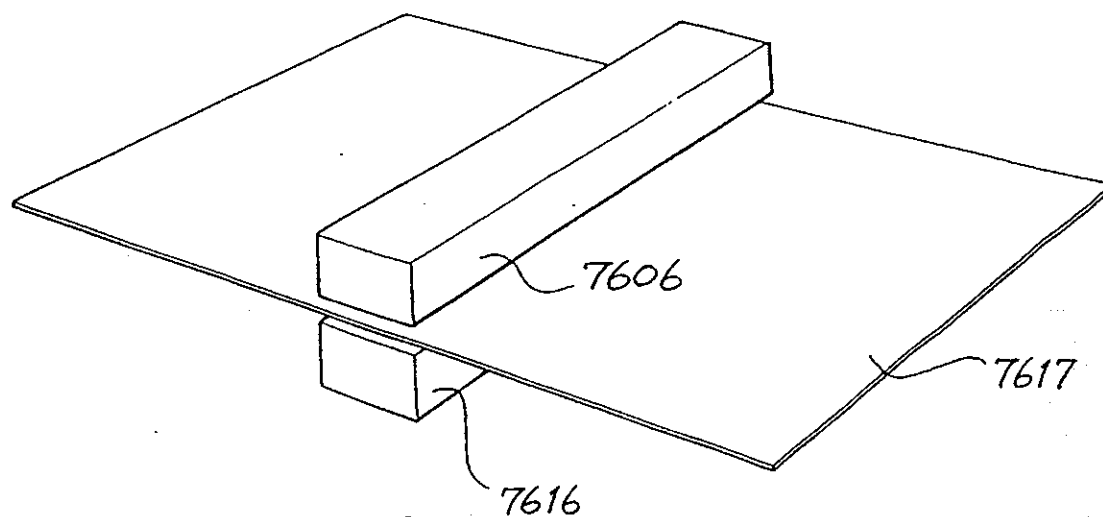


FIG. 336

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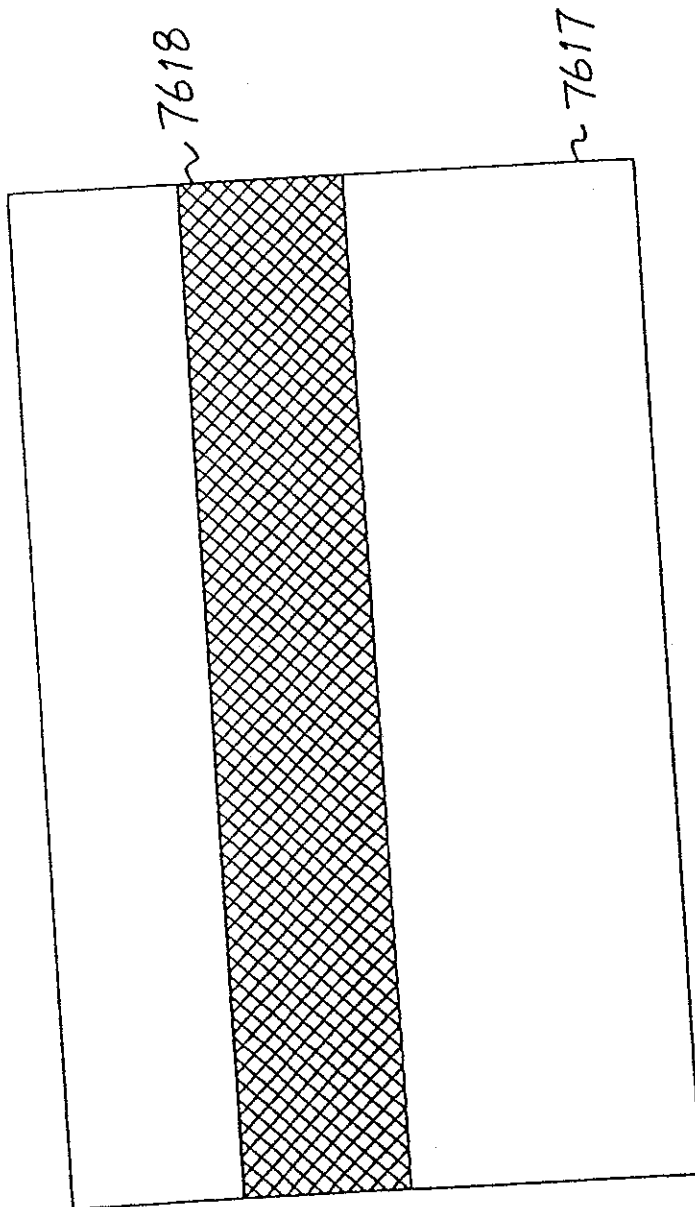


FIG. 337

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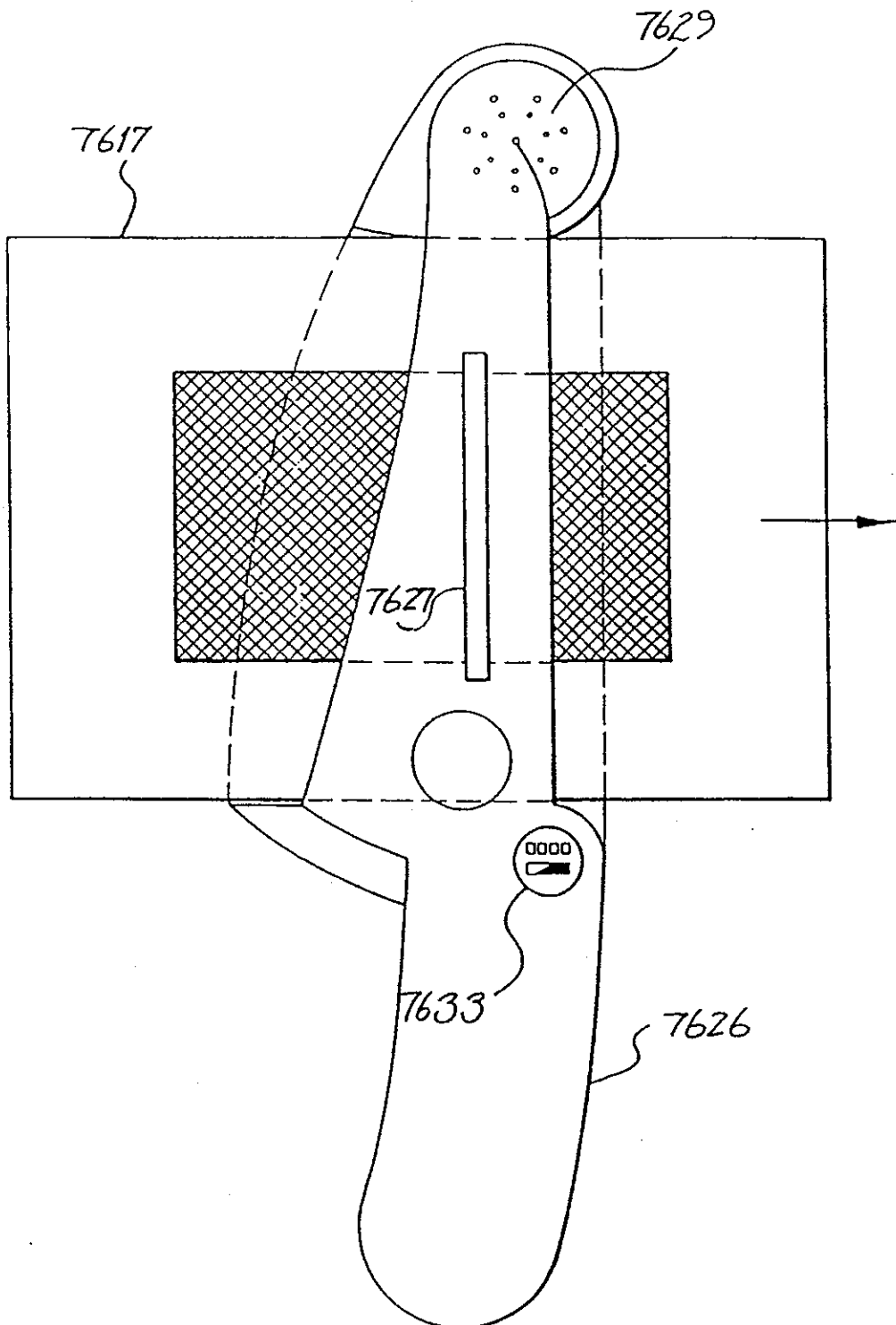


FIG. 338

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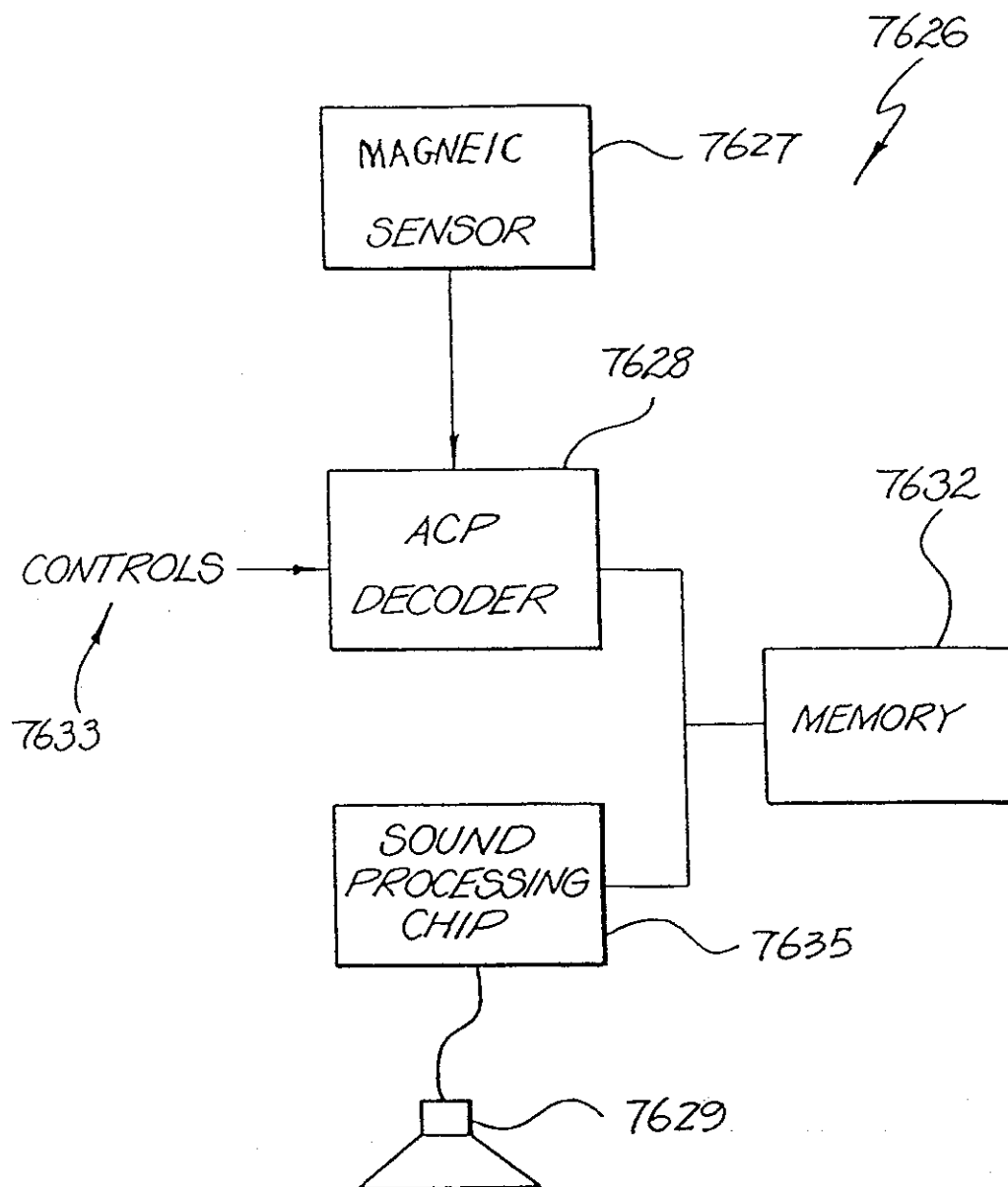


FIG. 339

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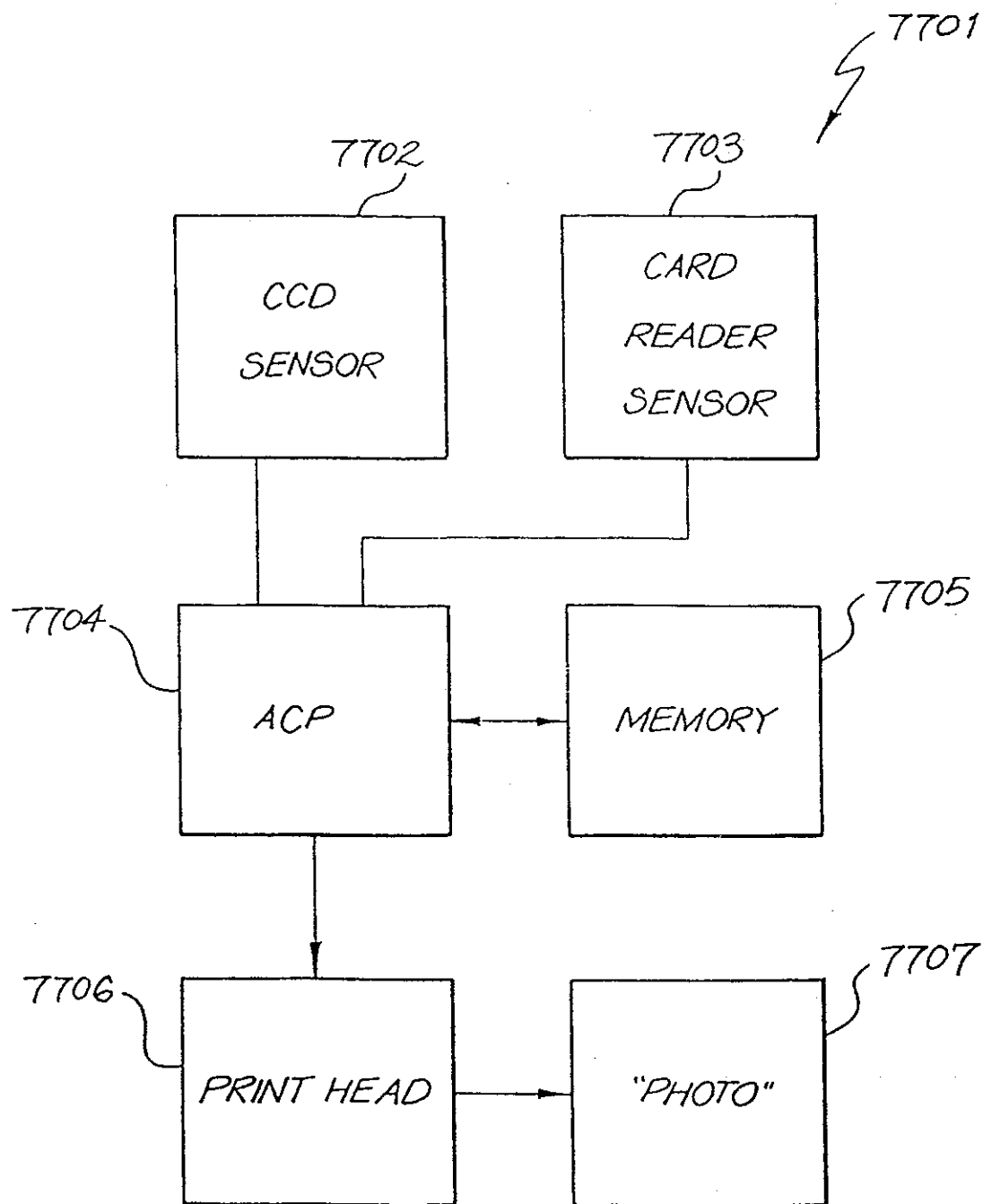


FIG. 340

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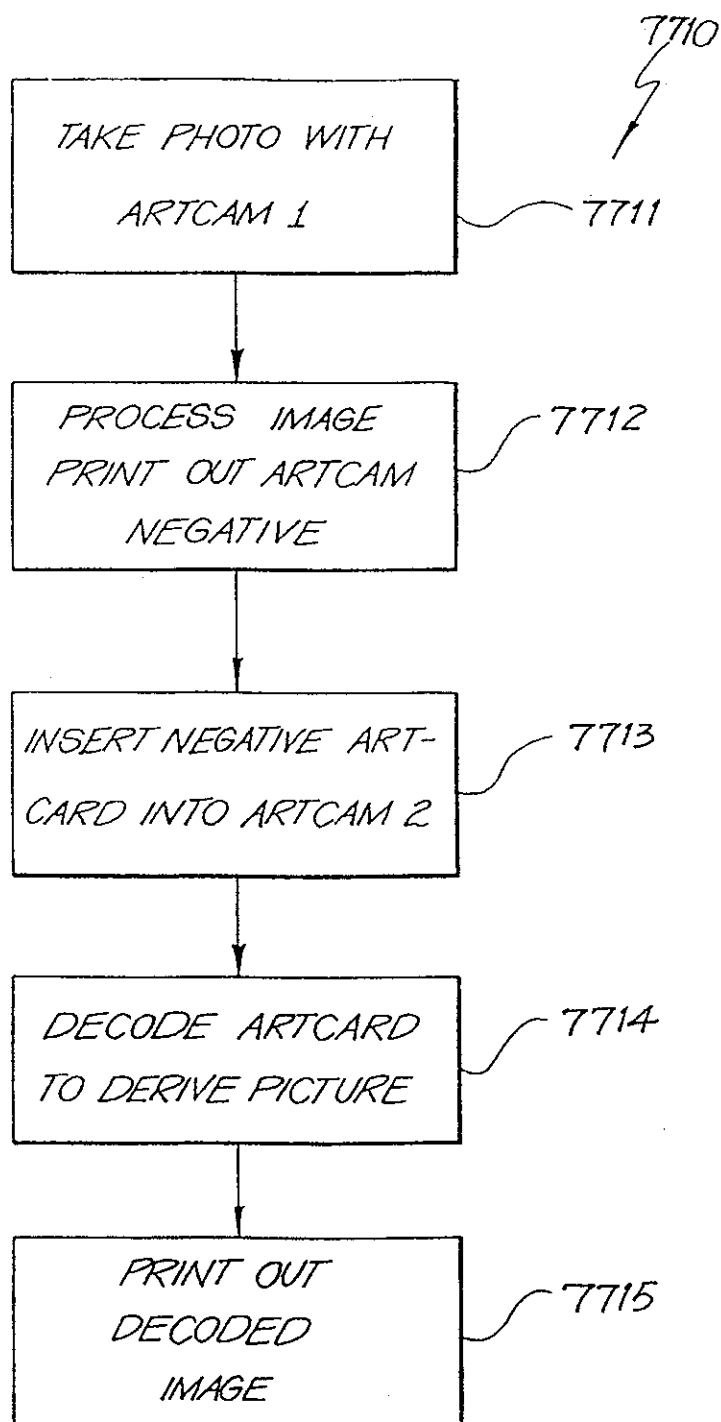


FIG. 341

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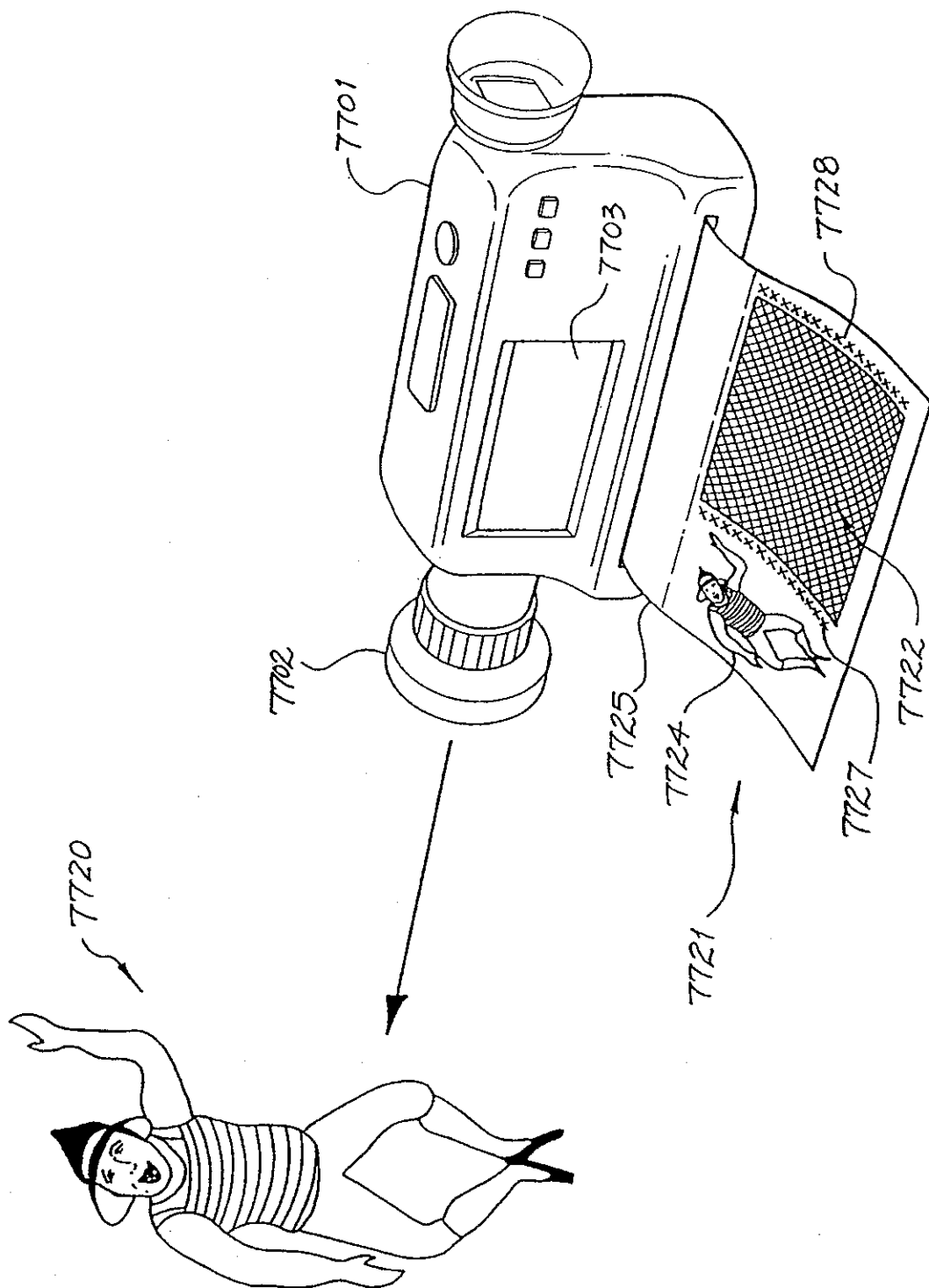


FIG. 342

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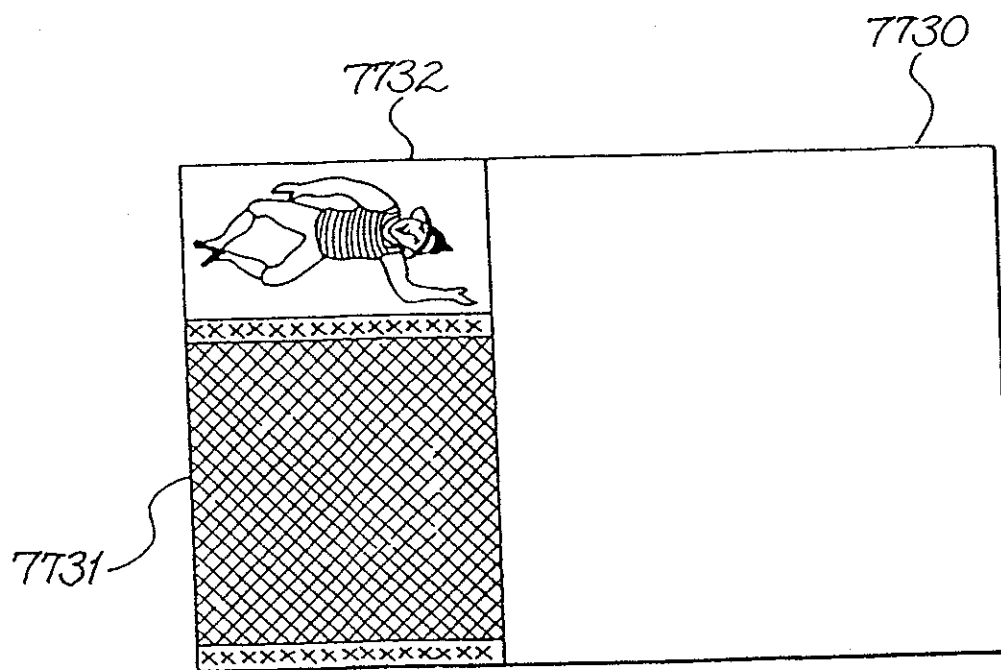


FIG. 343

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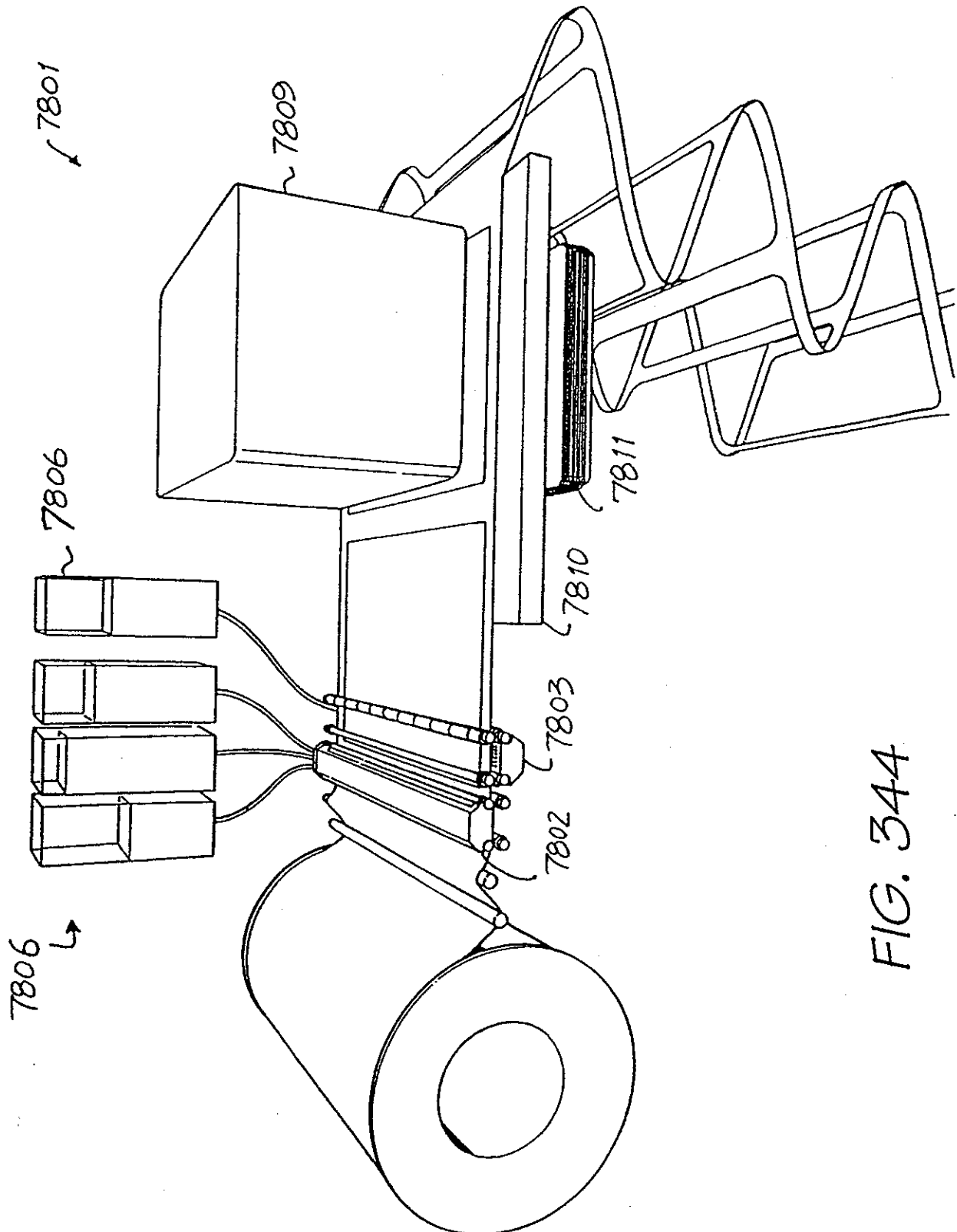


FIG. 344

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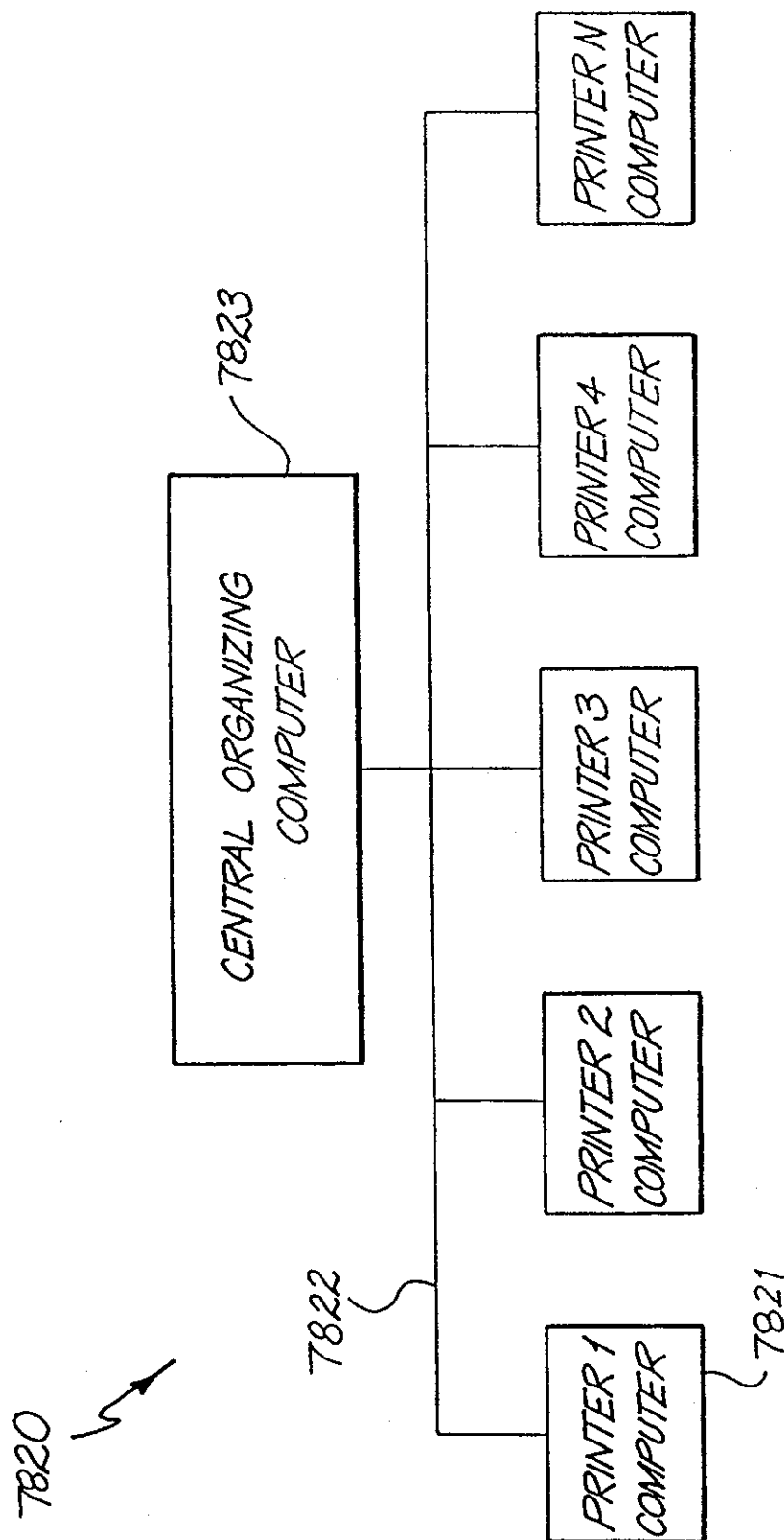


FIG. 345

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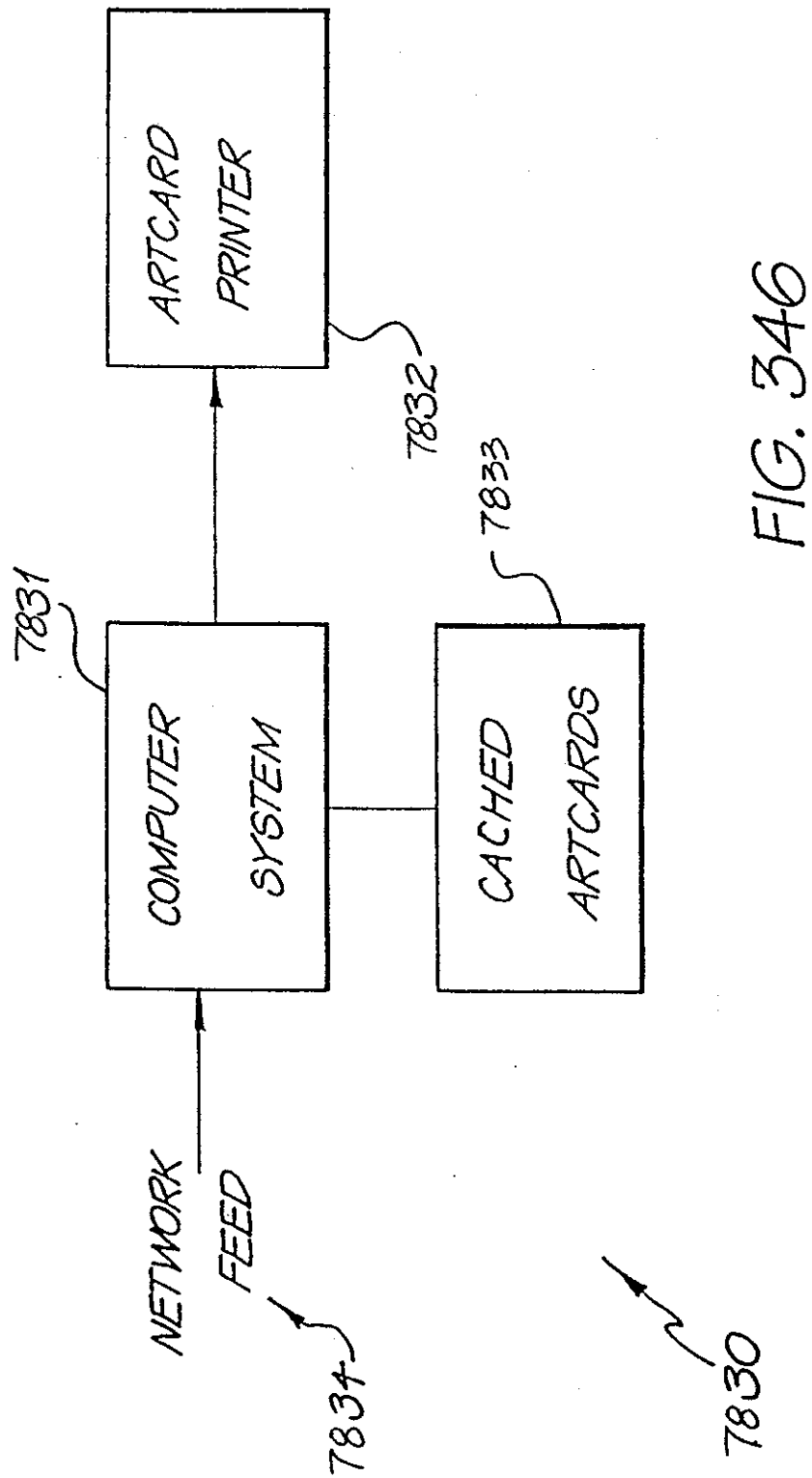


FIG. 346