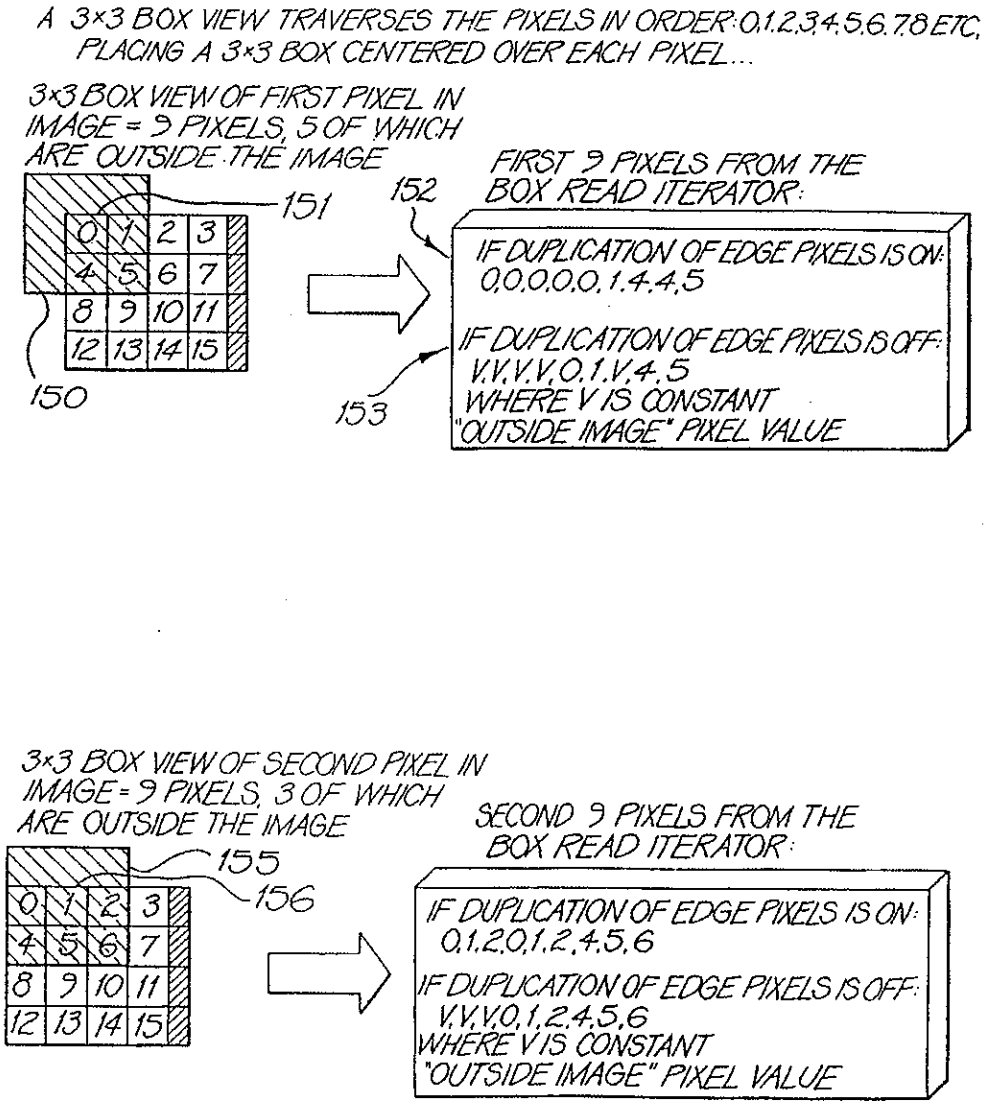

A 3×3 BOX VIEW TRAVERSES THE PIXELS IN ORDER: 0,1,2,3,4,5,6,7,8 ETC, PLACING A 3×3 BOX CENTERED OVER EACH PIXEL...
3×3 BOX VIEW OF FIRST PIXEL IN IMAGE = 9 PIXELS, 5 OF WHICH ARE OUTSIDE THE IMAGE
151
152
FIRST 9 PIXELS FROM THE BOX READ ITERATOR:
0 1 2 3
4 5 6 7
8 9 10 11
12 13 14 15
150
153
IF DUPLICATION 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
155
156
SECOND 9 PIXELS FROM THE BOX READ ITERATOR:
0 1 2 3
4 5 6 7
8 9 10 11
12 13 14 15
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

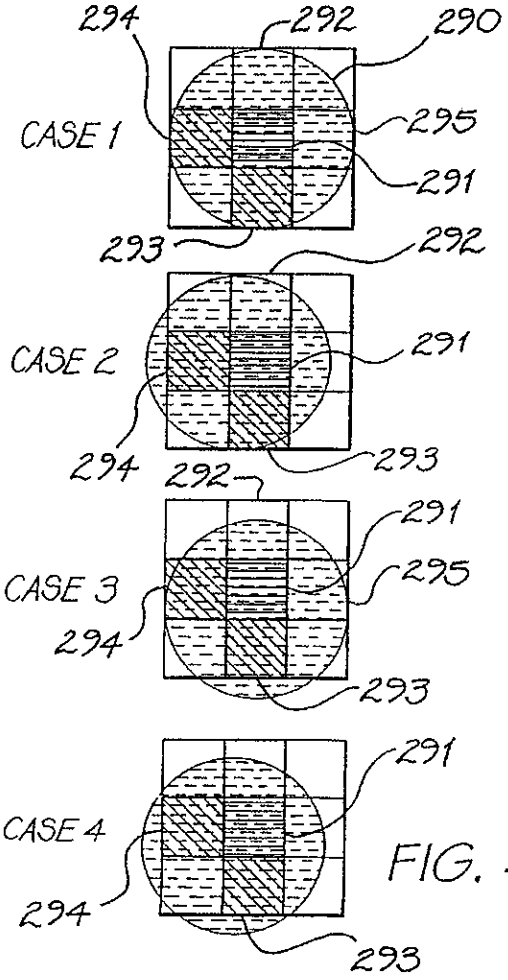

294
292
290
CASE 1
295
291
293
292
CASE 2
291
294
293
292
291
CASE 3
295
294
293
291
CASE 4
294
293

FIG. 42

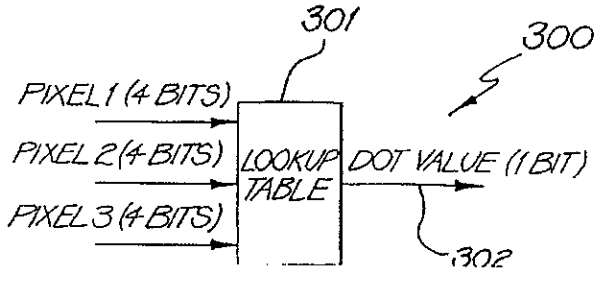

301
300
PIXEL 1 (4 BITS)
PIXEL 2 (4 BITS)
PIXEL 3 (4 BITS)
LOOKUP TABLE
DOT VALUE (1 BIT)
302

FIG. 43

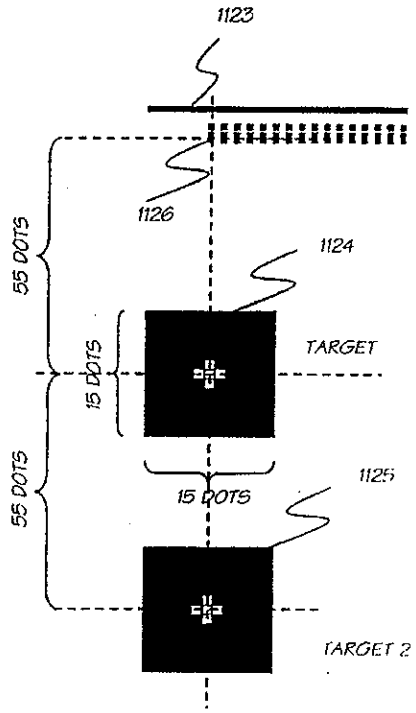

1123
1126
55 DOTS
1124
TARGET
15 DOTS
55 DOTS
15 DOTS
1125
TARGET 2

FIG. 55

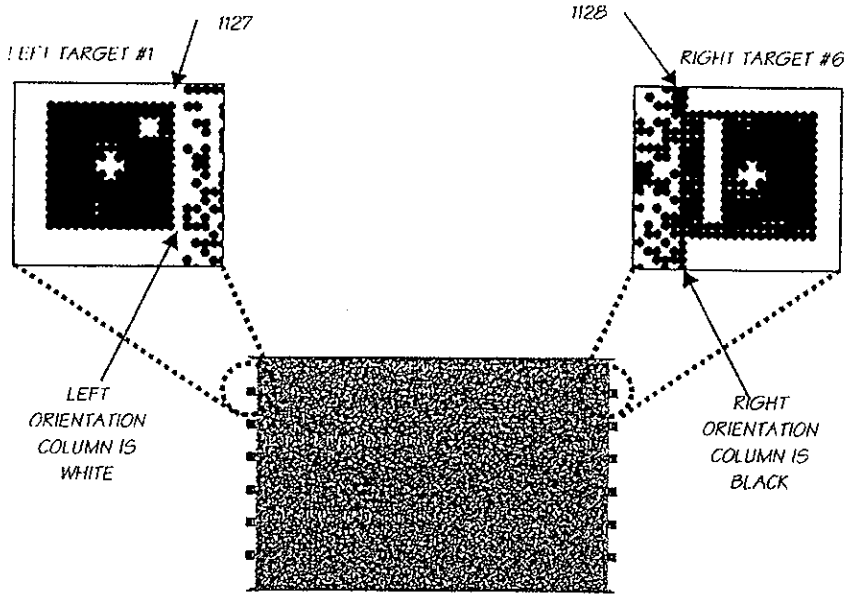

1127
LEFT TARGET #1
1128
RIGHT TARGET #6
LEFT ORIENTATION COLUMN IS WHITE
RIGHT ORIENTATION COLUMN IS BLACK

FIG. 56

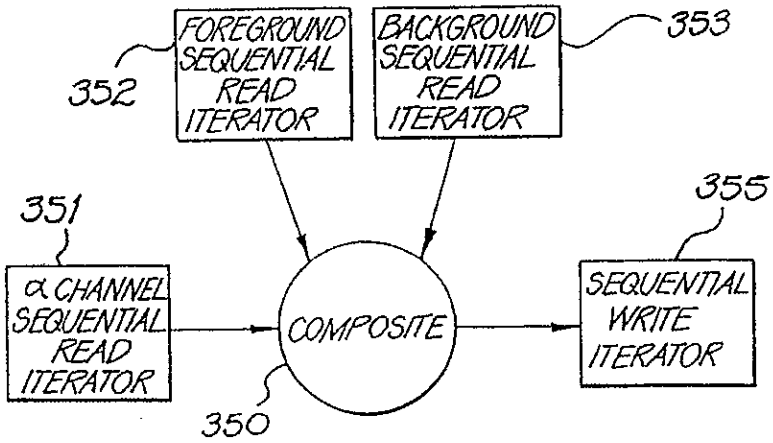

FOREGROUND SEQUENTIAL READ ITERATOR
352
BACKGROUND SEQUENTIAL READ ITERATOR
353
351
α CHANNEL SEQUENTIAL READ ITERATOR
COMPOSITE
350
355
SEQUENTIAL WRITE ITERATOR

FIG. 83

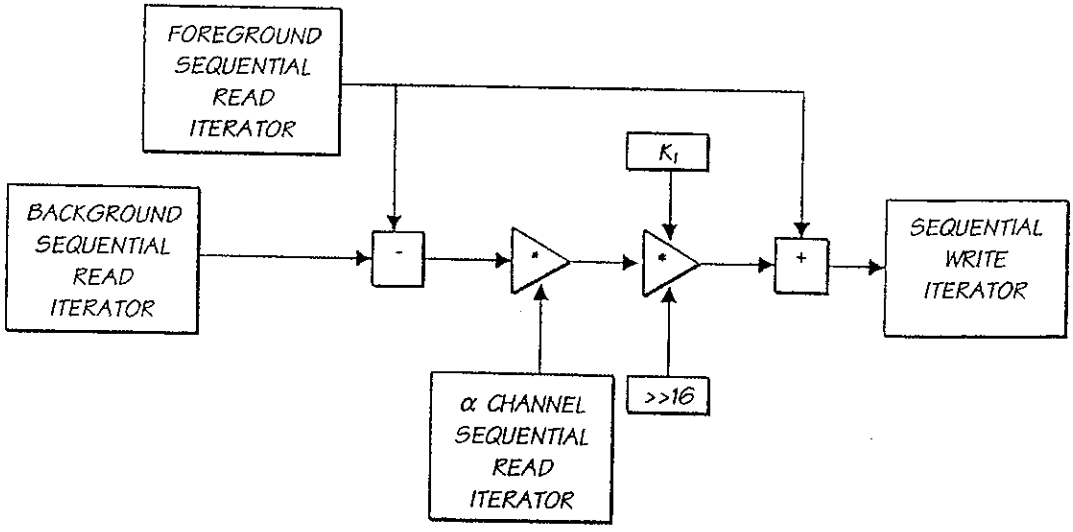
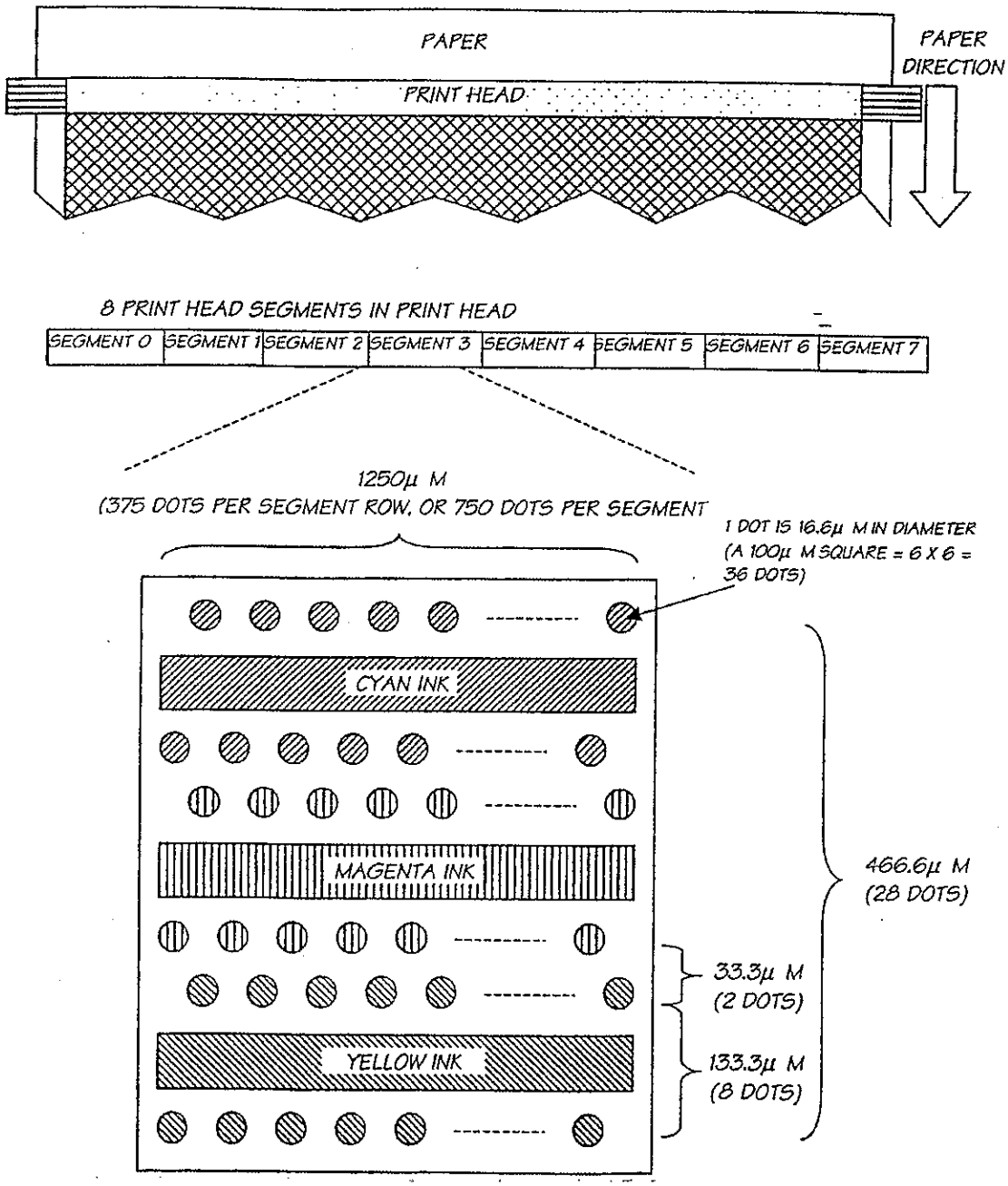

FOREGROUND SEQUENTIAL READ ITERATOR
BACKGROUND SEQUENTIAL READ ITERATOR
K1
-
*
*
+
SEQUENTIAL WRITE ITERATOR
α CHANNEL SEQUENTIAL READ ITERATOR
>>16

FIG. 84



EACH SEGMENT CONTAINS 6 ROWS OF DOTS. ODD AND EVEN

FIG. 153

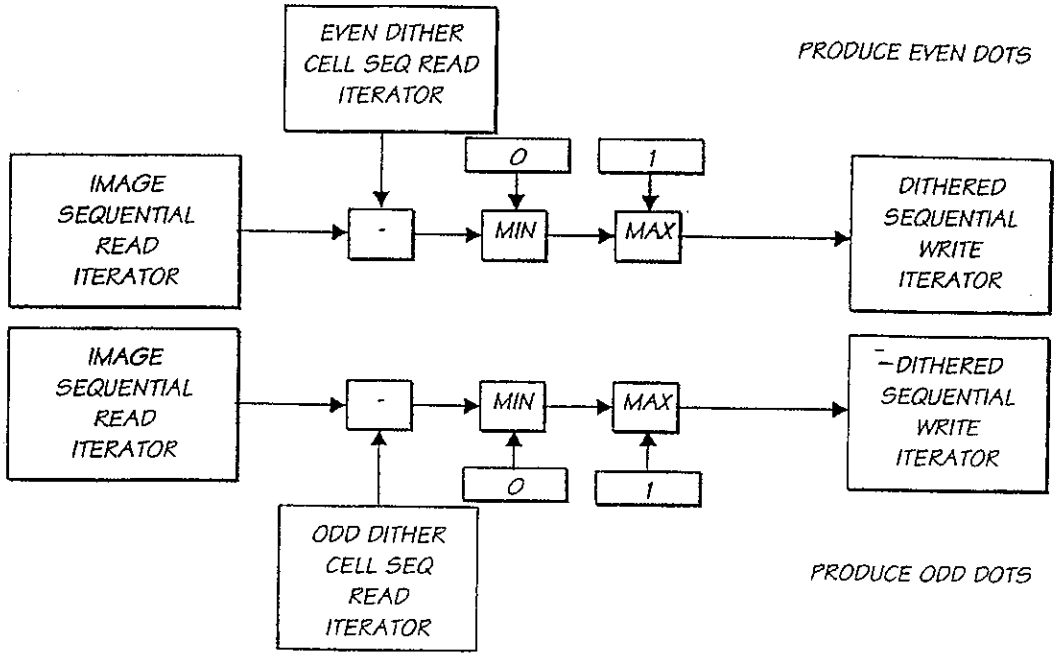


FIG. 157

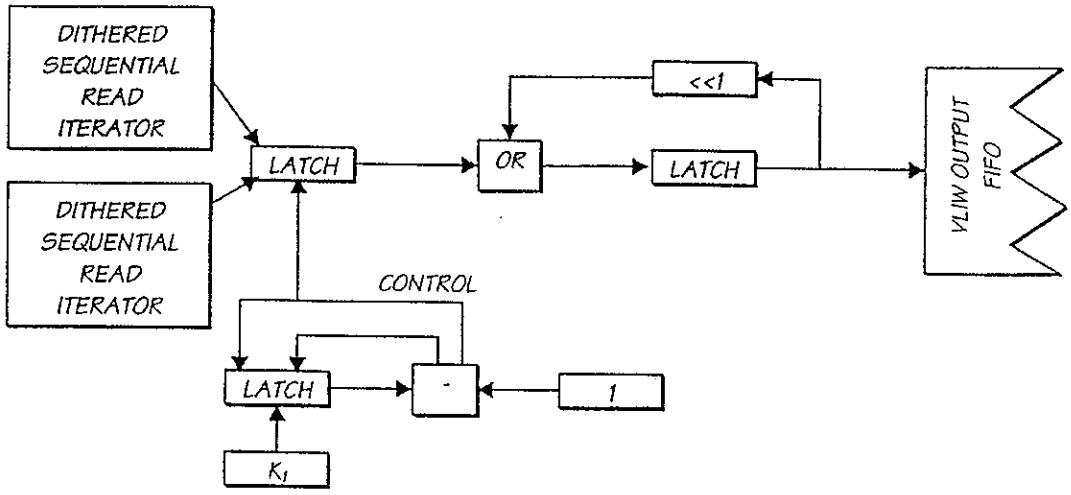


FIG. 158

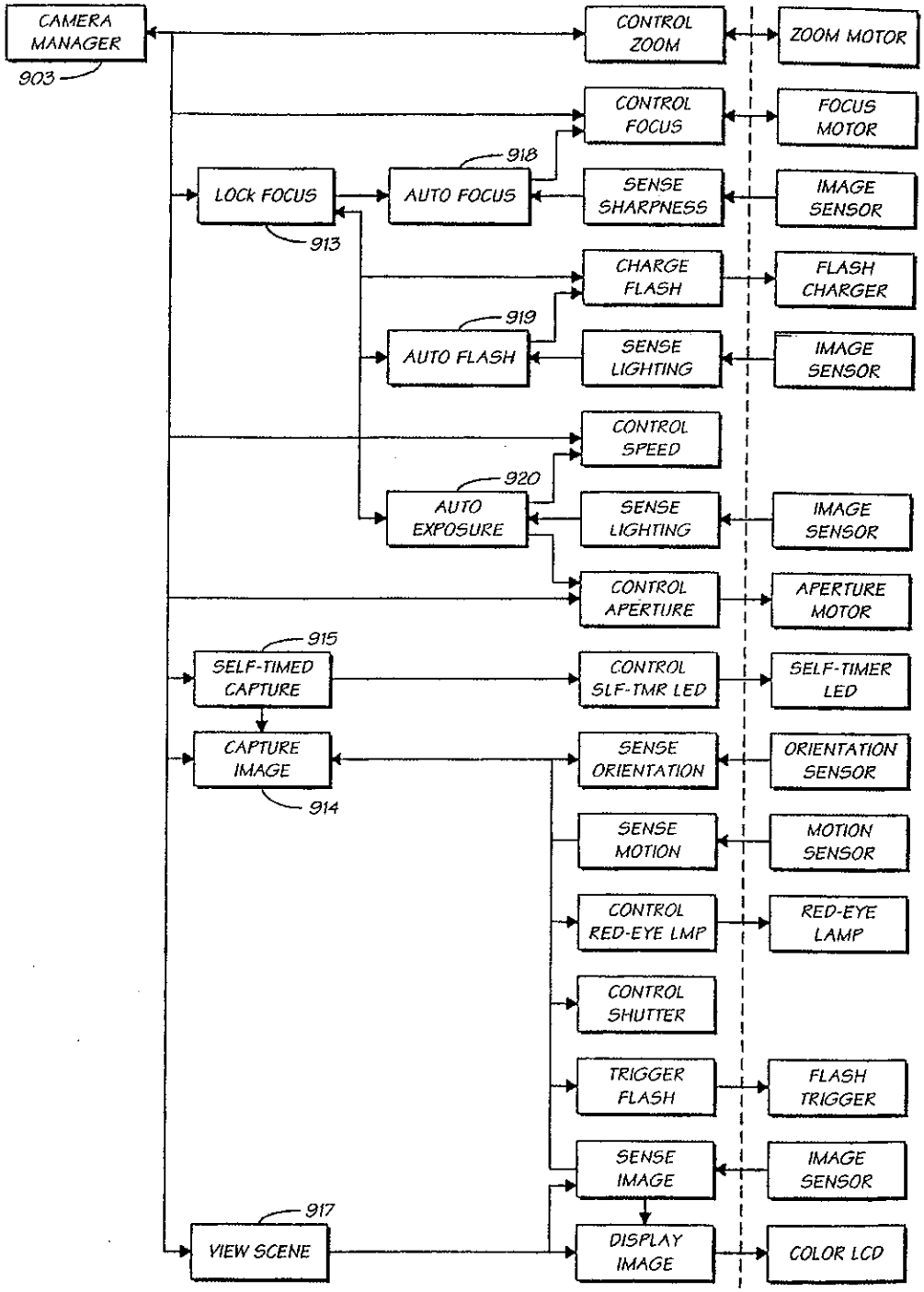

CAMERA MANAGER
903
CONTROL ZOOM
ZOOM MOTOR
CONTROL FOCUS
FOCUS MOTOR
LOCK FOCUS
913
AUTO FOCUS
918
SENSE SHARPNESS
IMAGE SENSOR
CHARGE FLASH
FLASH CHARGER
AUTO FLASH
919
SENSE LIGHTING
IMAGE SENSOR
CONTROL SPEED
AUTO EXPOSURE
920
SENSE LIGHTING
IMAGE SENSOR
CONTROL APERTURE
APERTURE MOTOR
SELF-TIMED CAPTURE
915
CONTROL SLF-TMR LED
SELF-TIMER LED
CAPTURE IMAGE
914
SENSE ORIENTATION
ORIENTATION SENSOR
SENSE MOTION
MOTION SENSOR
CONTROL RED-EYE LMP
RED-EYE LAMP
CONTROL SHUTTER
TRIGGER FLASH
FLASH TRIGGER
SENSE IMAGE
IMAGE SENSOR
VIEW SCENE
917
DISPLAY IMAGE
COLOR LCD

FIG. 222

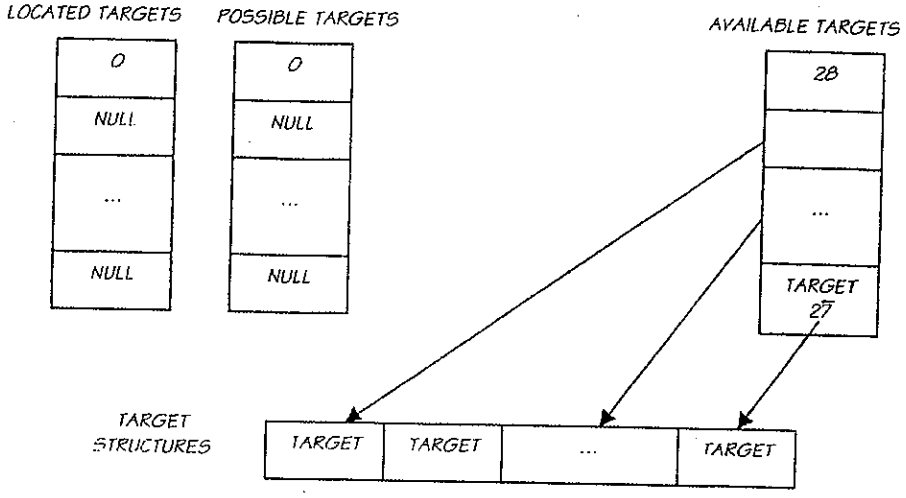
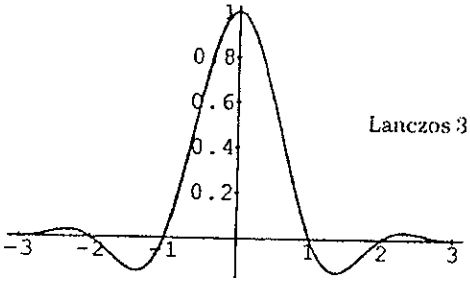


FIG. 75



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

FIG. 76

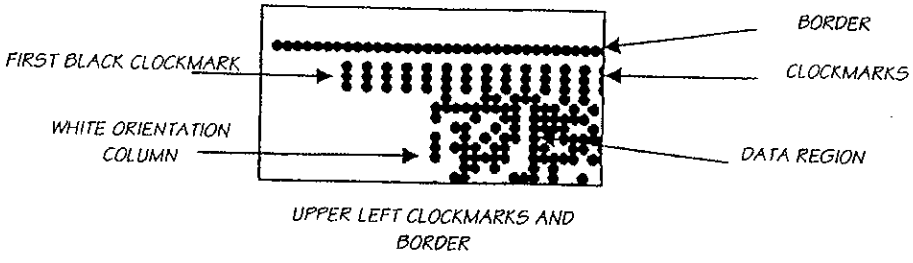


FIG. 77

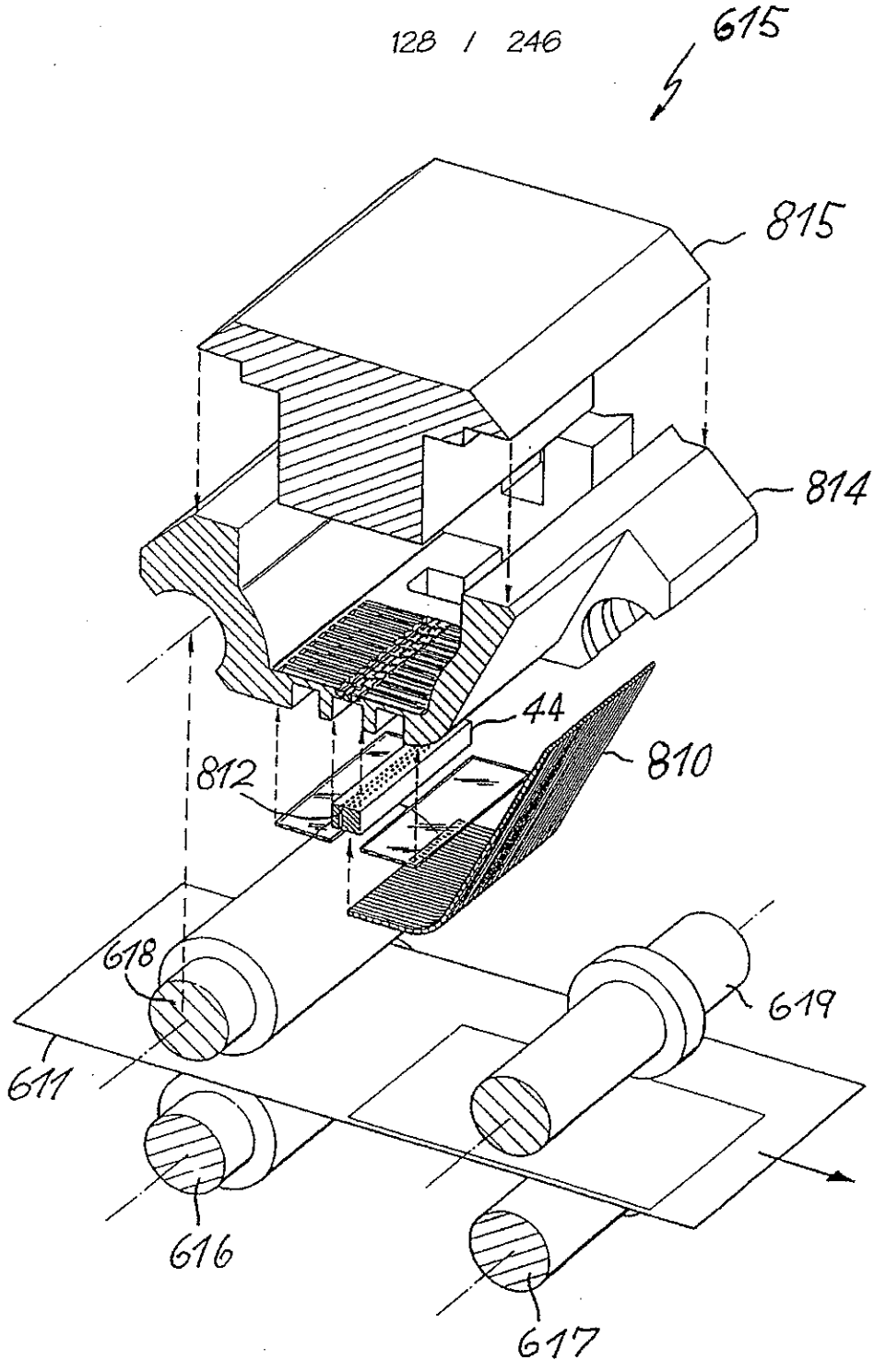


FIG. 206

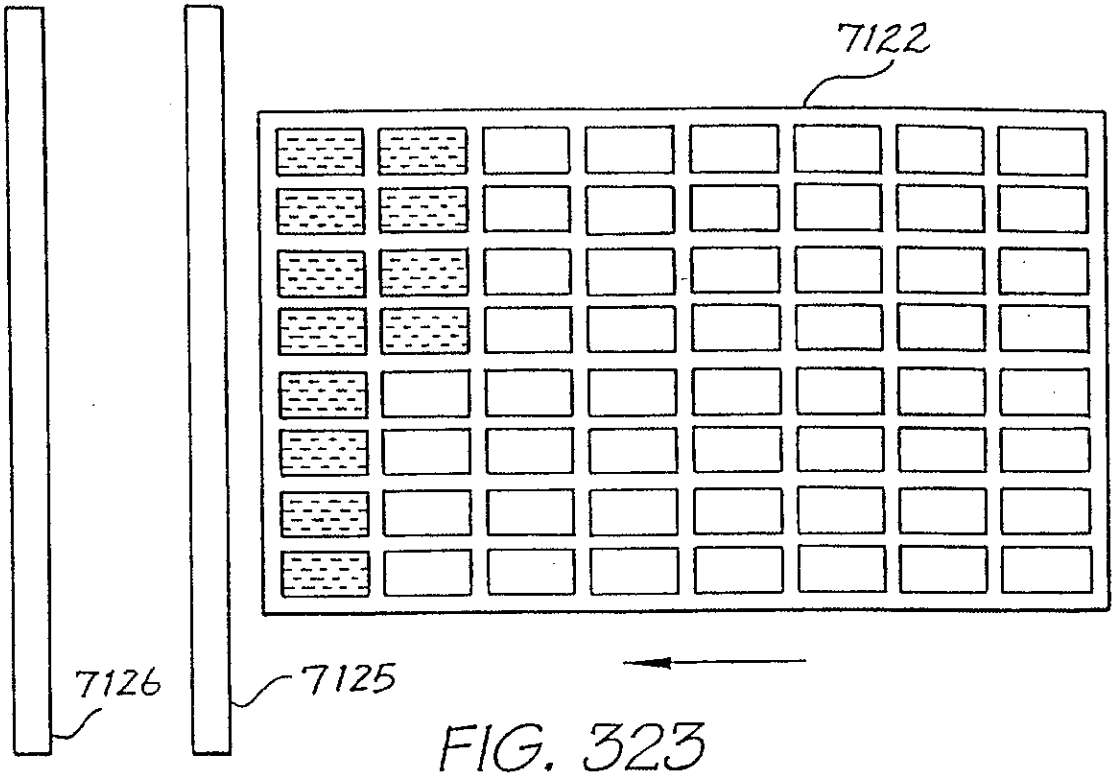


FIG. 323

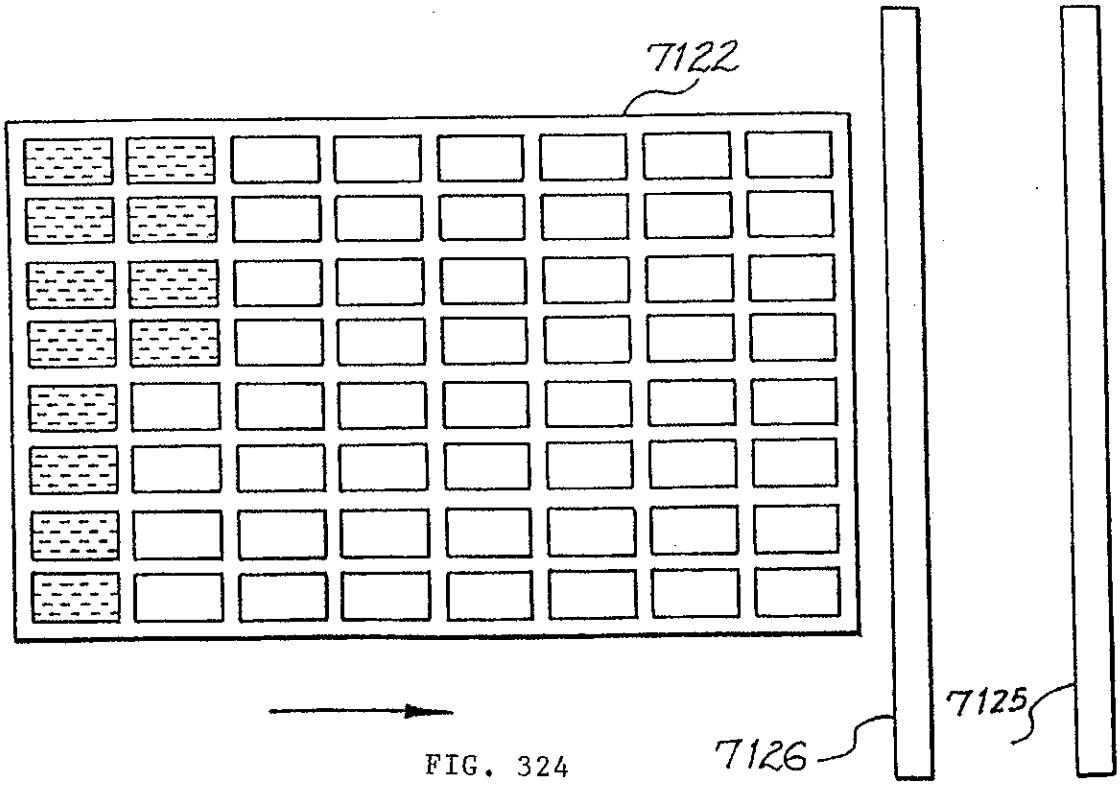


FIG. 324