

FIG. 1

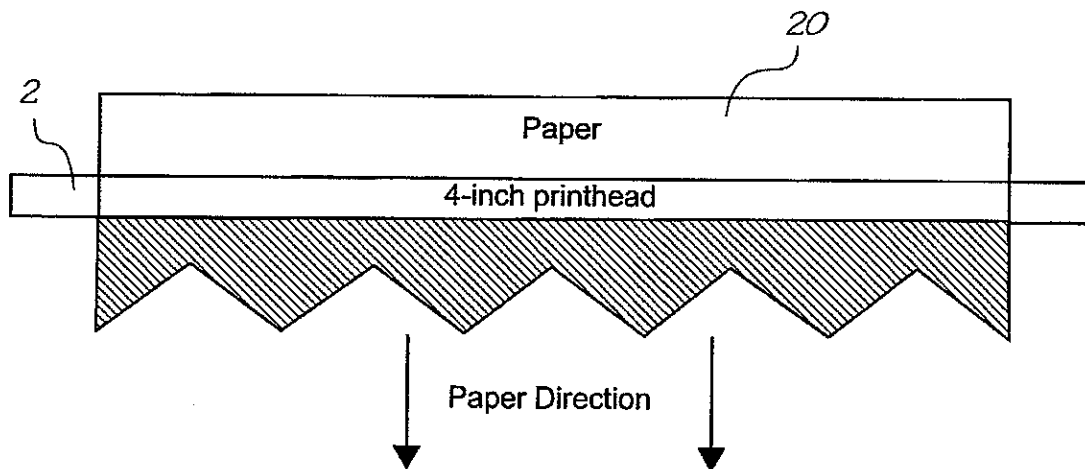


FIG. 4

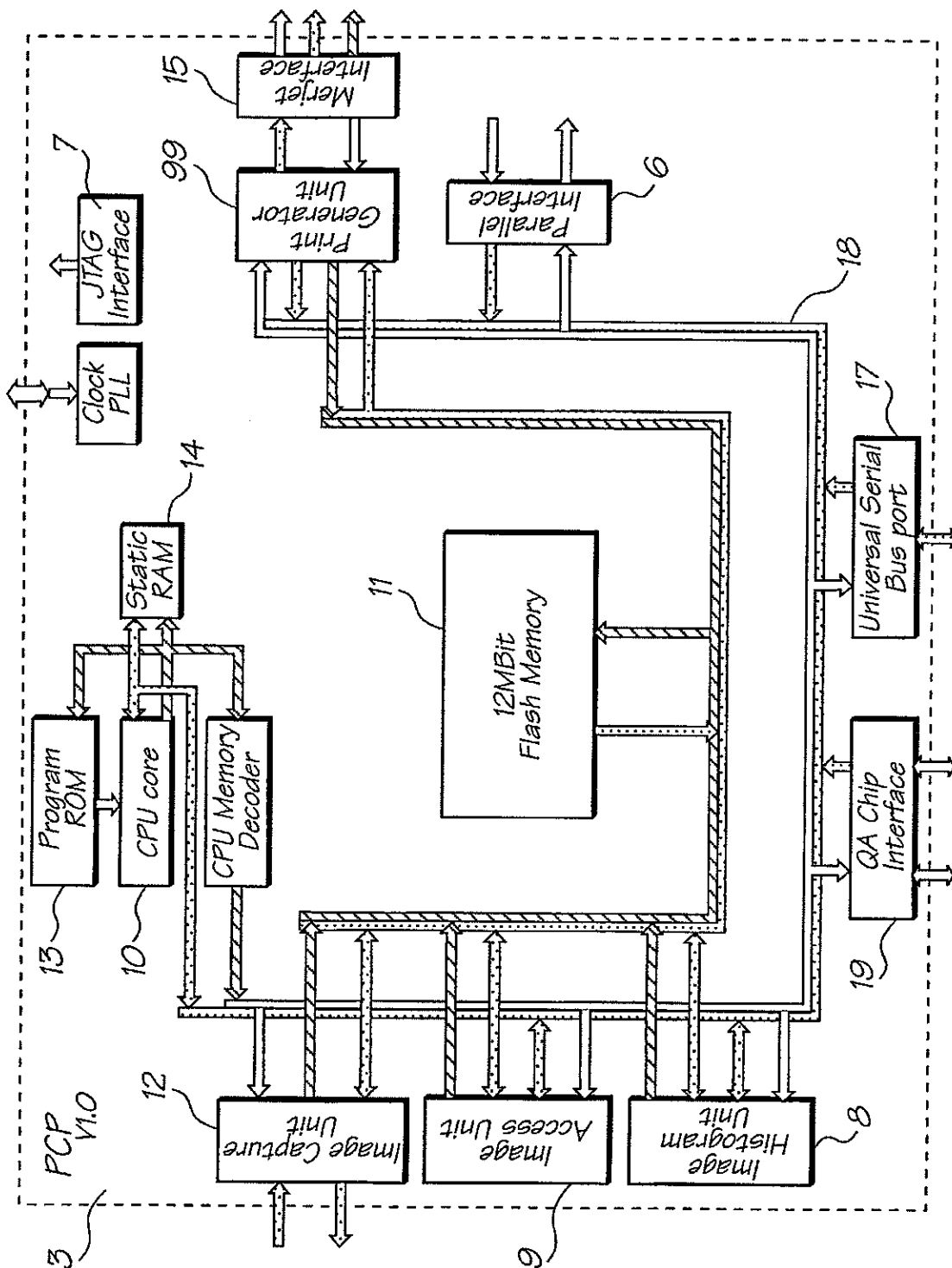


FIG. 2

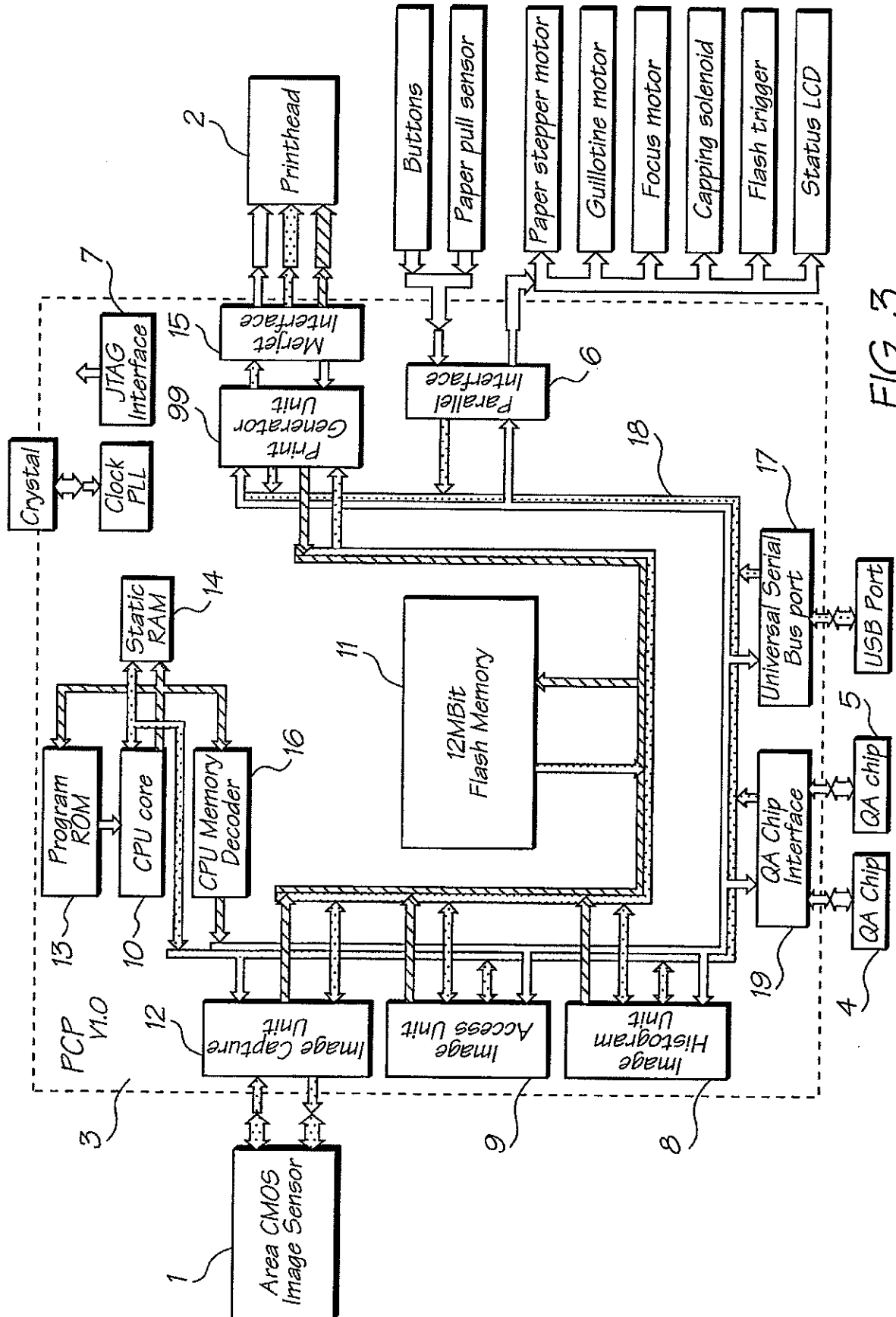
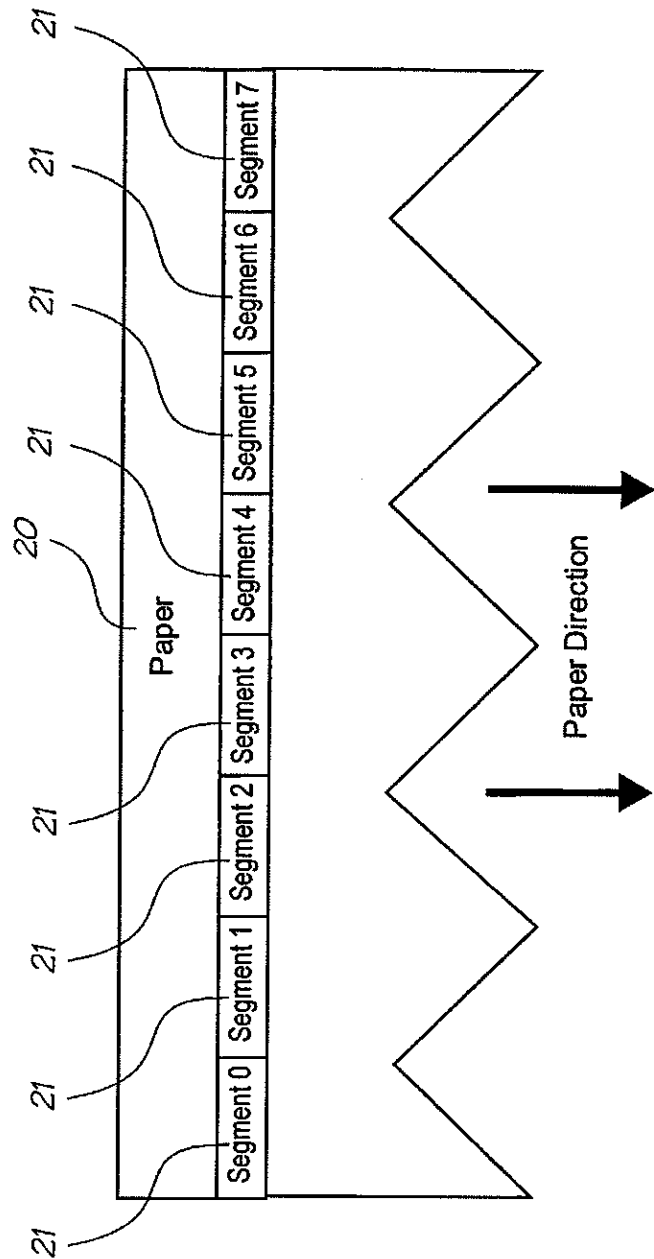


FIG. 3



1 segment  
= 0.5 inch  
= 12700  $\mu\text{m}$

FIG. 5

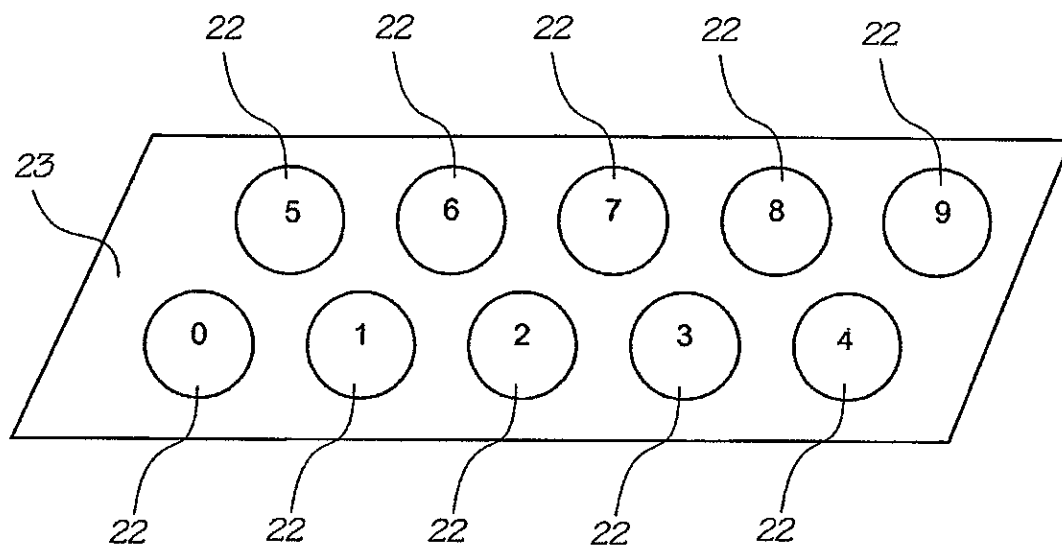


FIG. 6

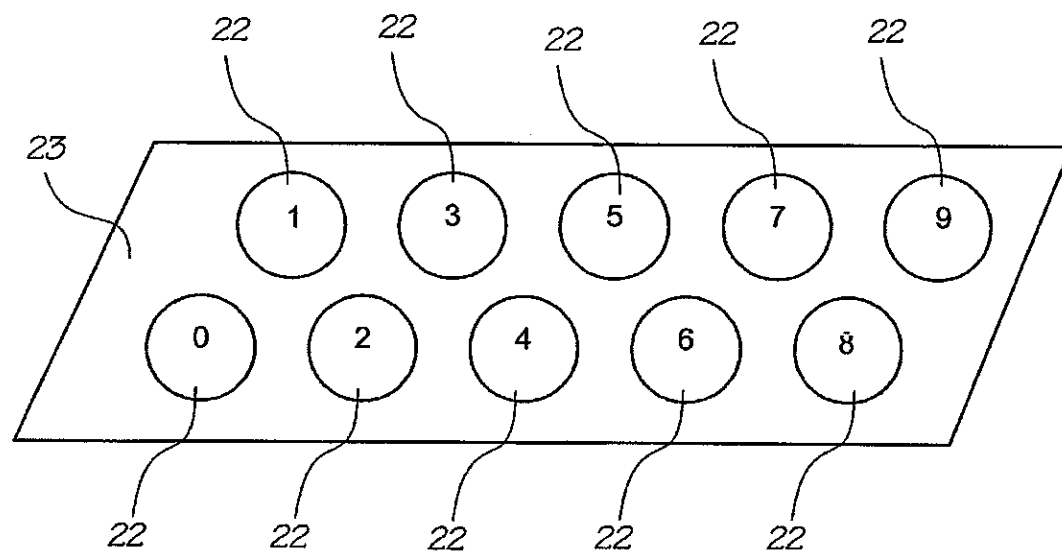


FIG. 7

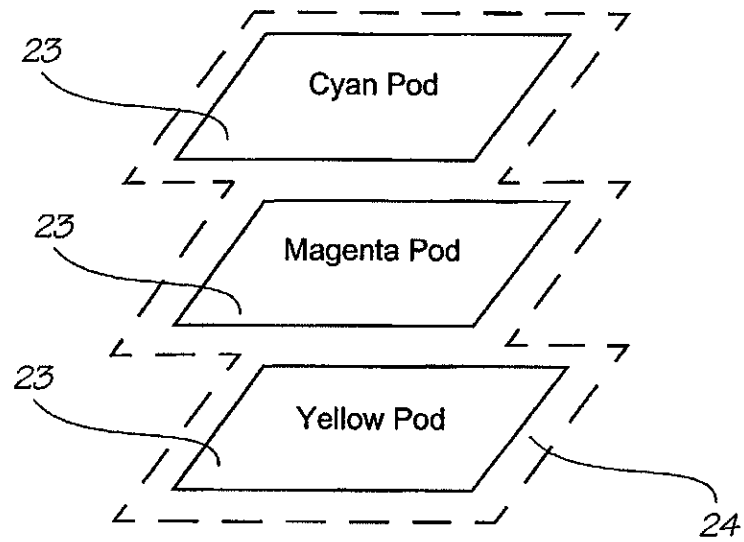


FIG. 8

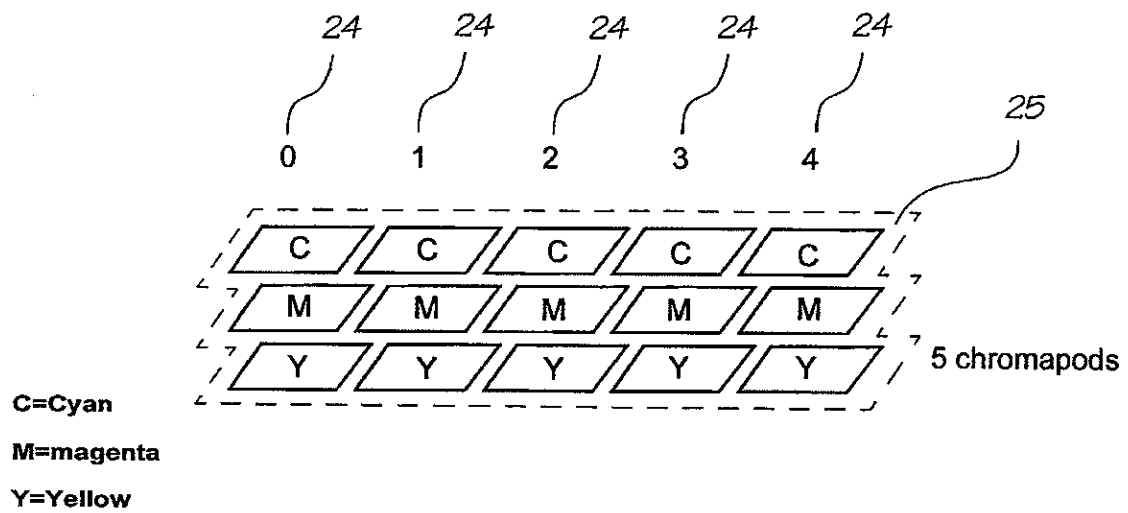


FIG. 9

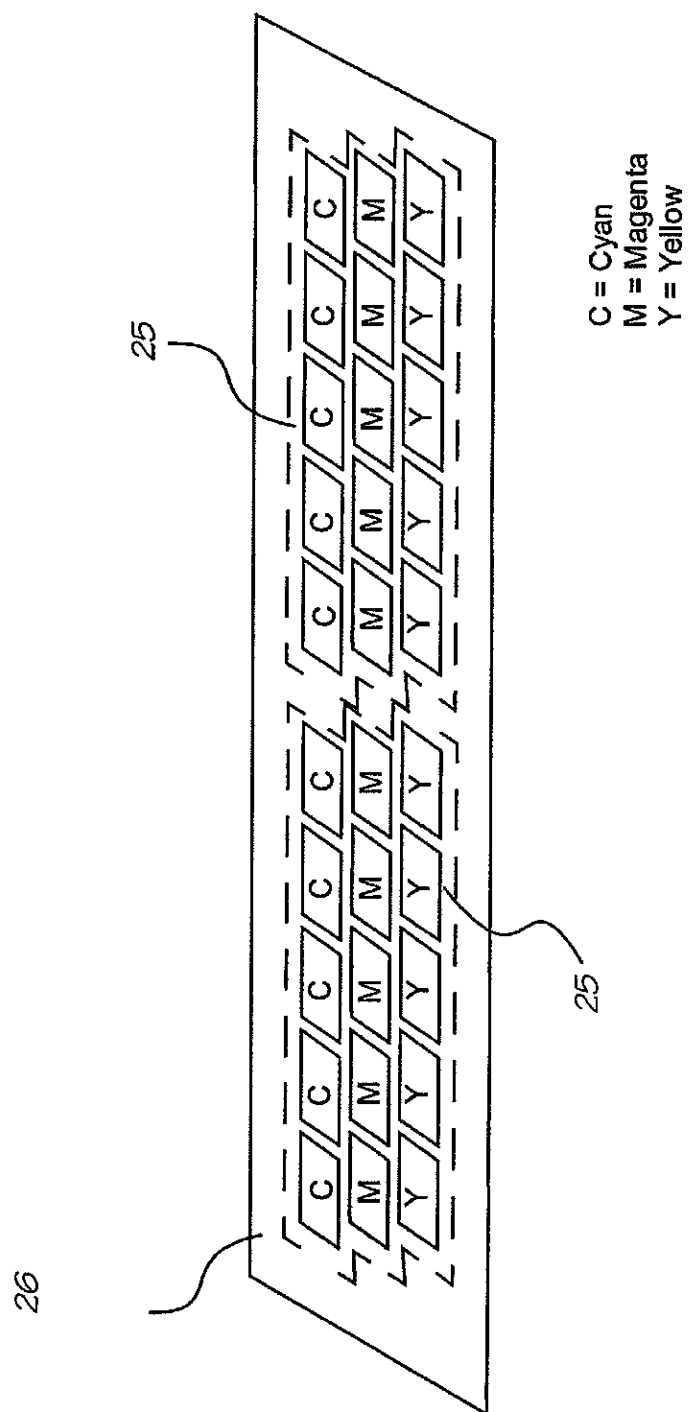
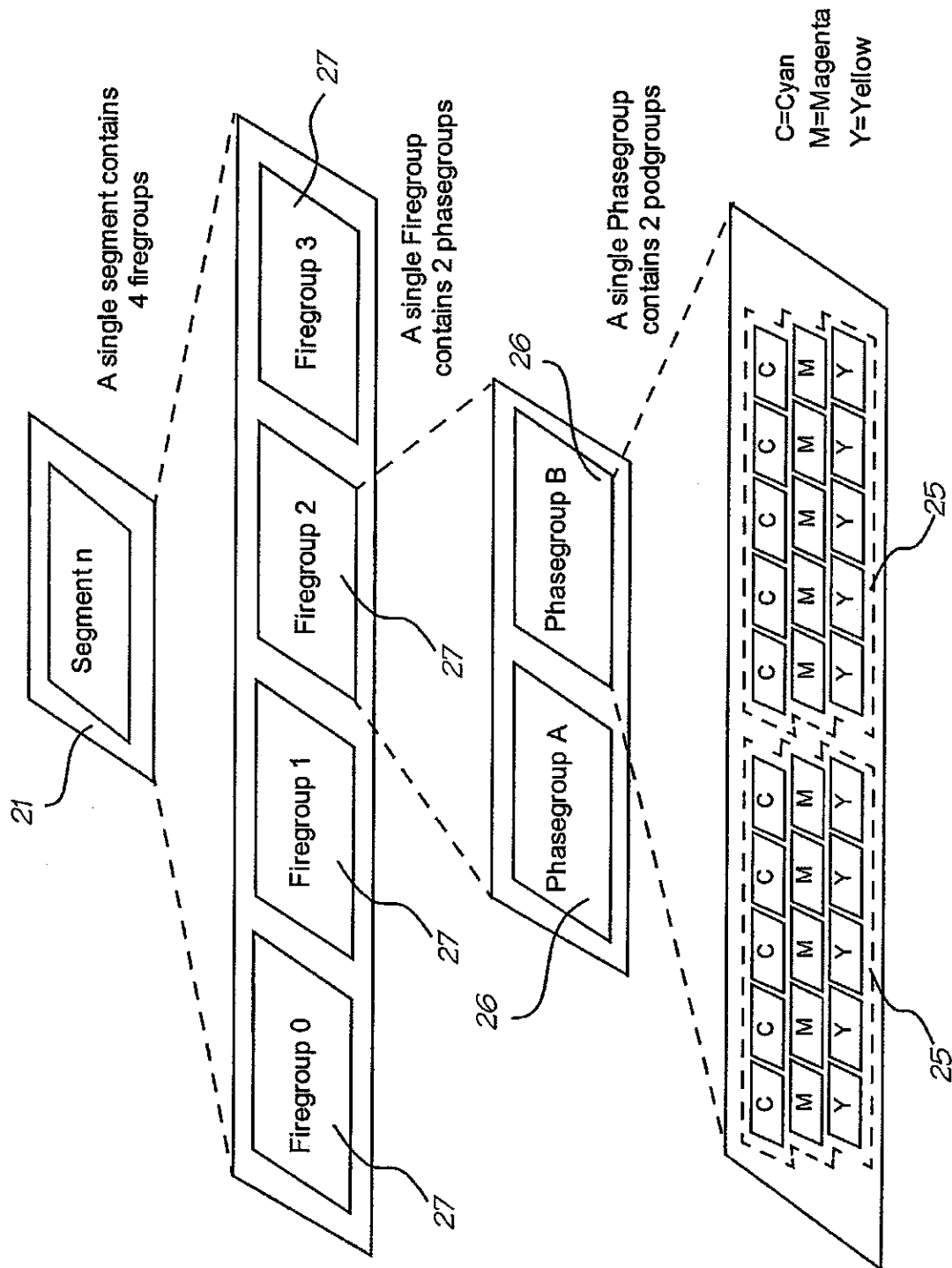


FIG. 10



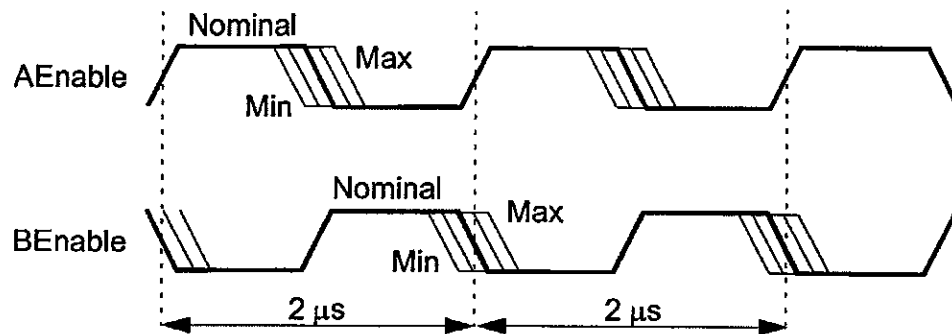


FIG. 12

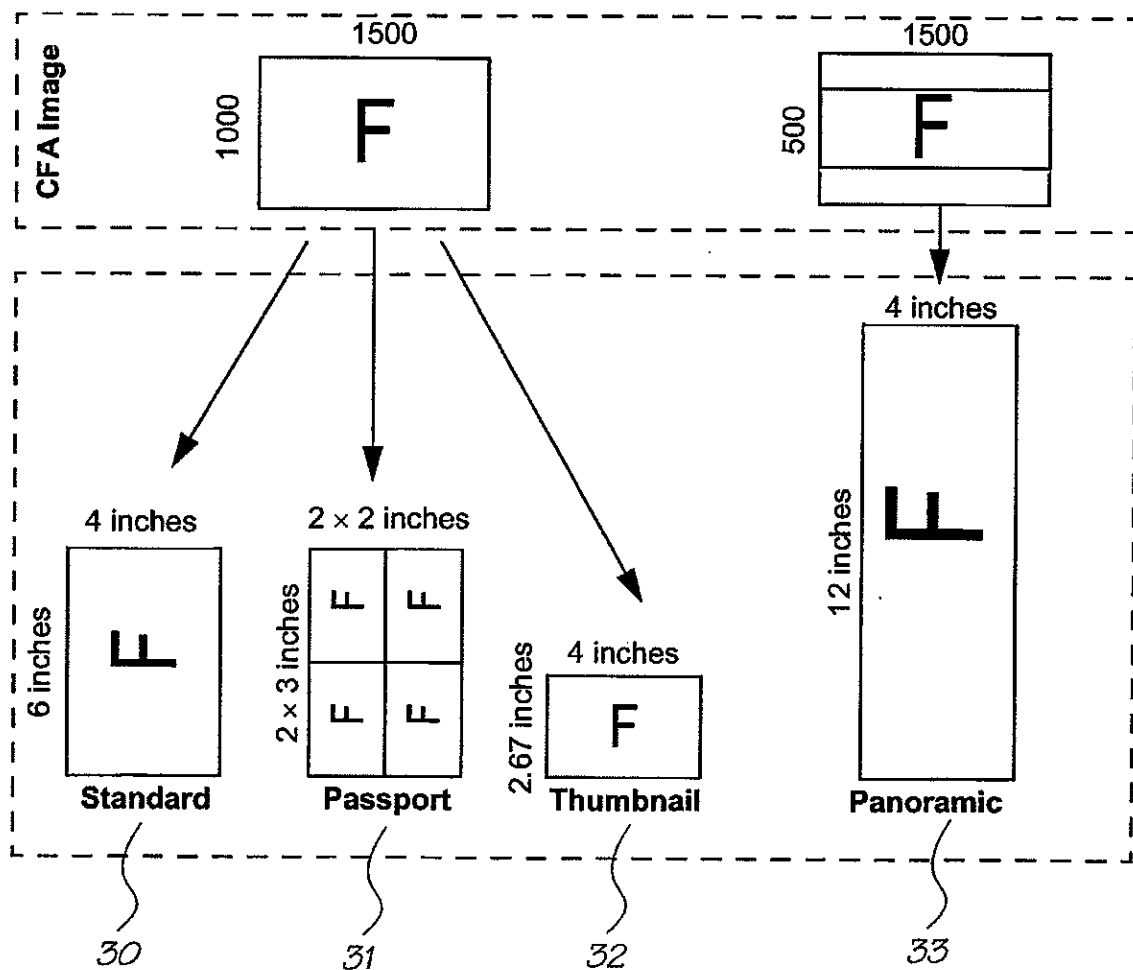


FIG. 13

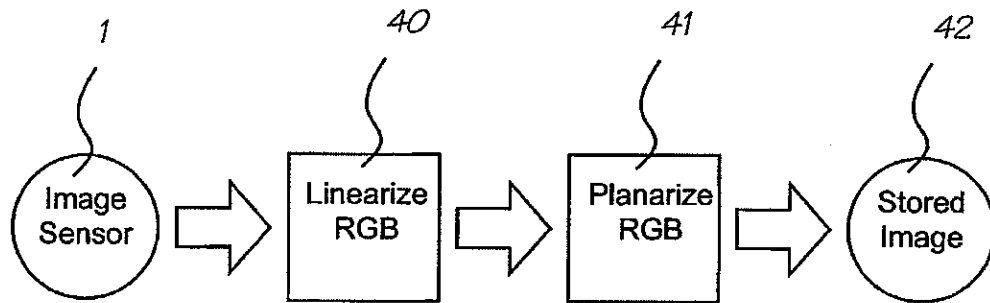


FIG. 14

|   |   |
|---|---|
| R | G |
| G | B |

2×2 pixel block  
in sensor

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| R | G | R | G | R | G |
| G | B | G | B | G | B |
| R | G | R | G | R | G |
| G | B | G | B | G | B |

Bayer mosaic of several  
2×2 pixel blocks

FIG. 15

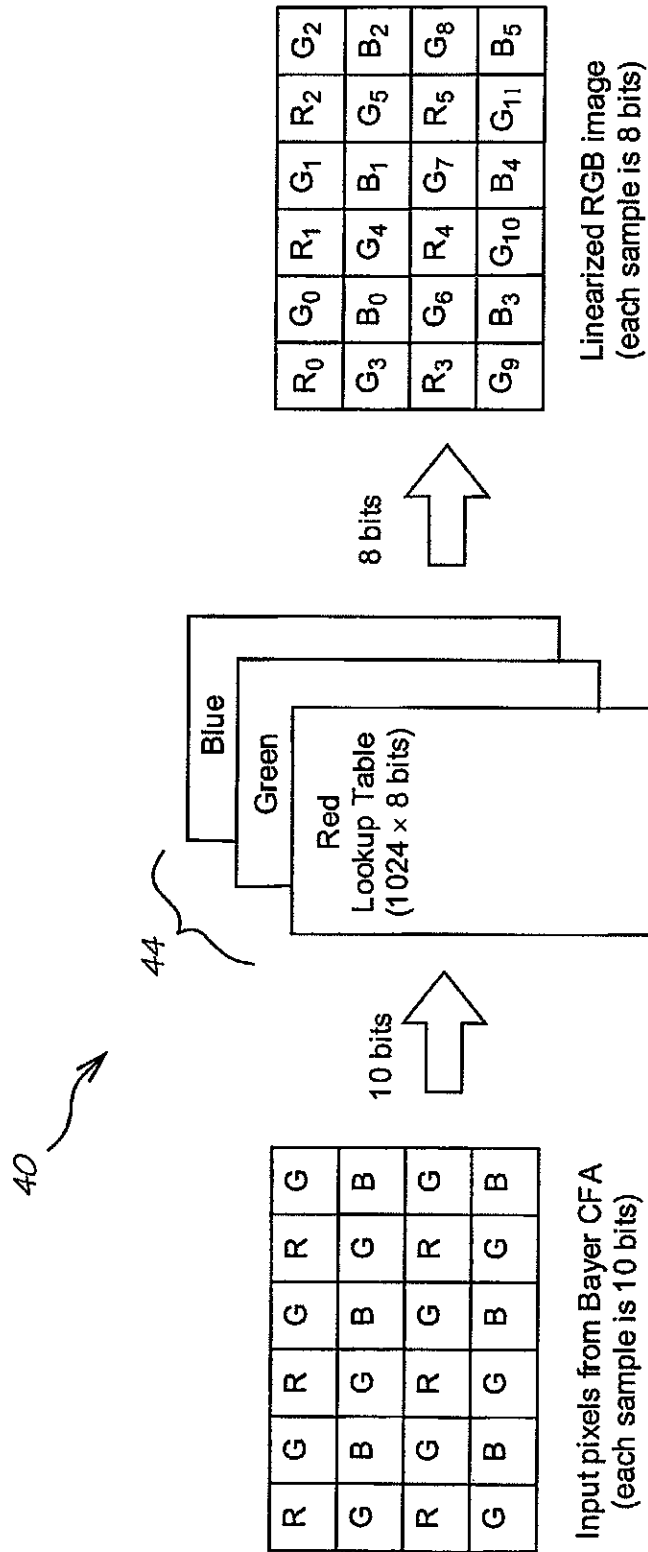


FIG. 16

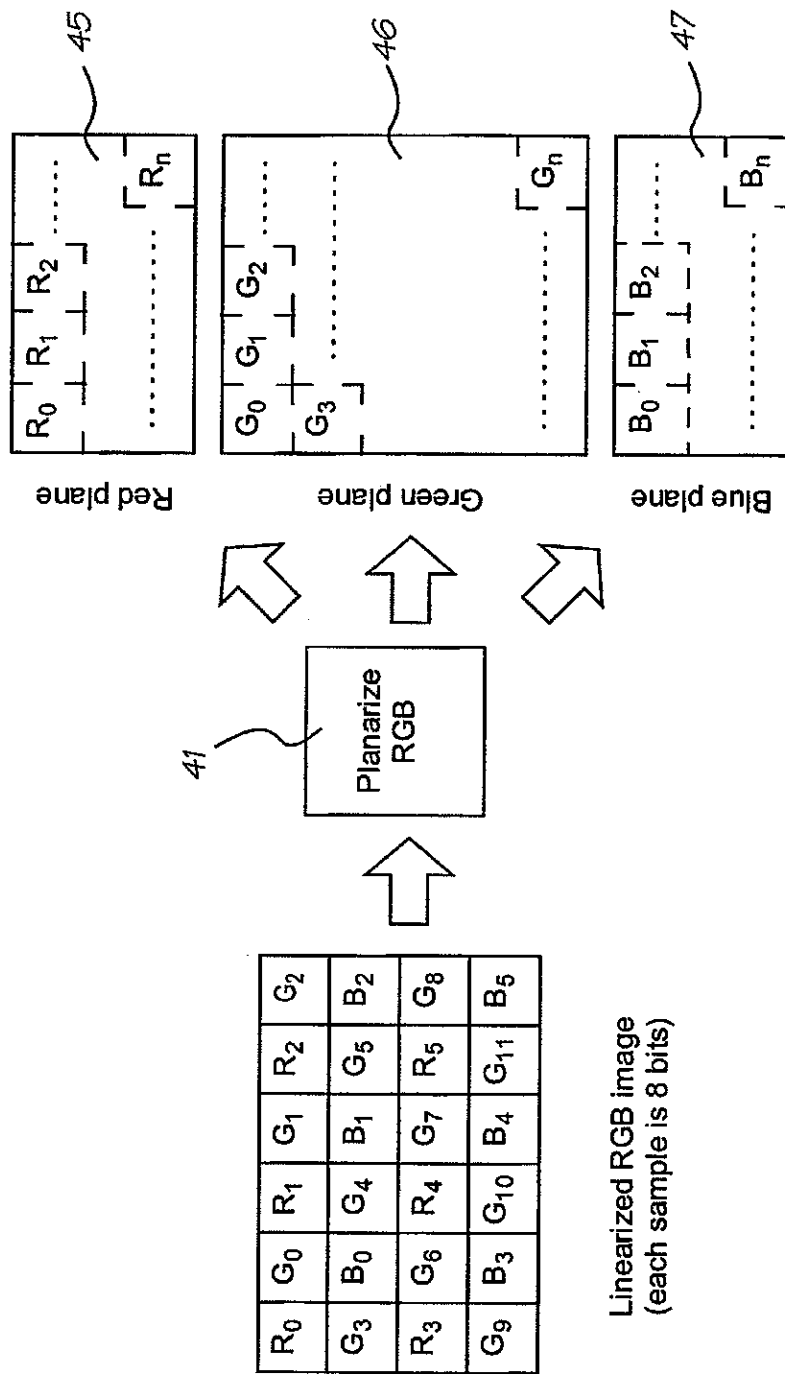


FIG. 17

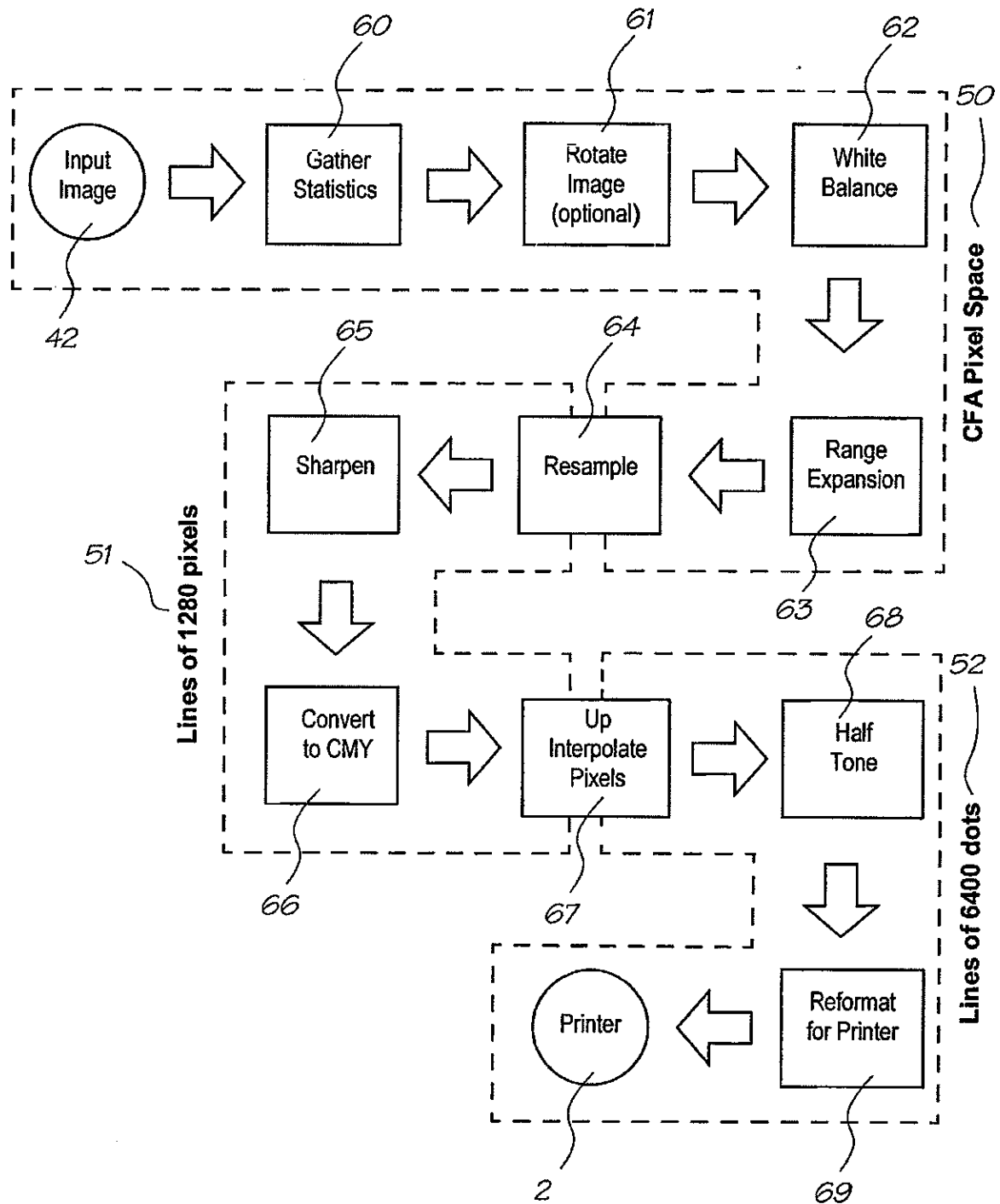


FIG. 18

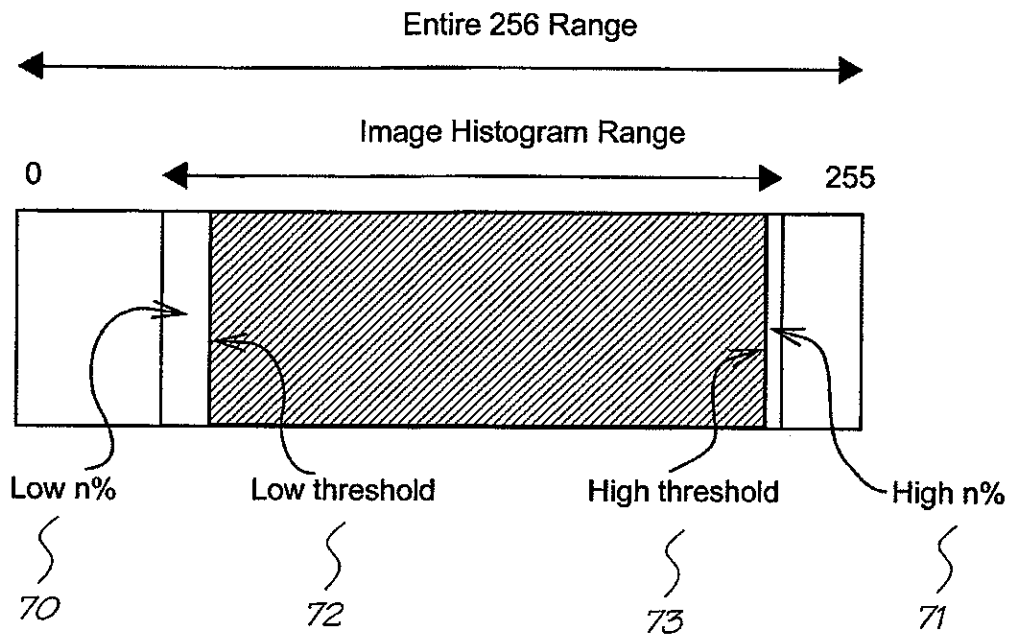


FIG. 19

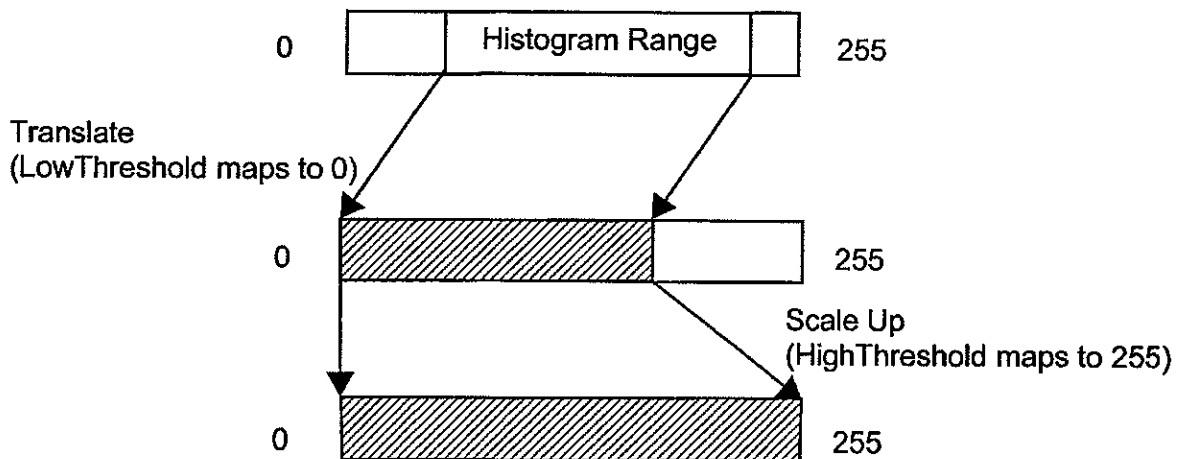


FIG. 20

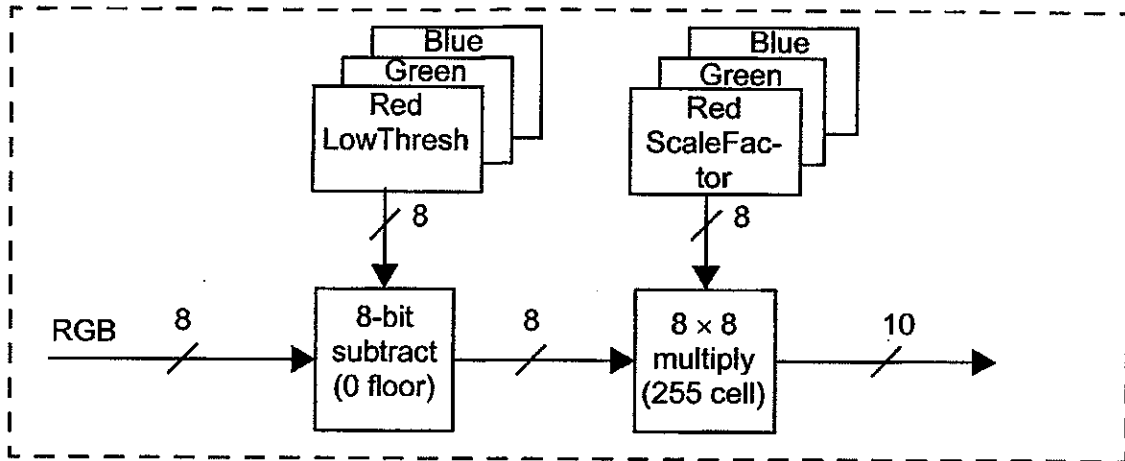


FIG. 21

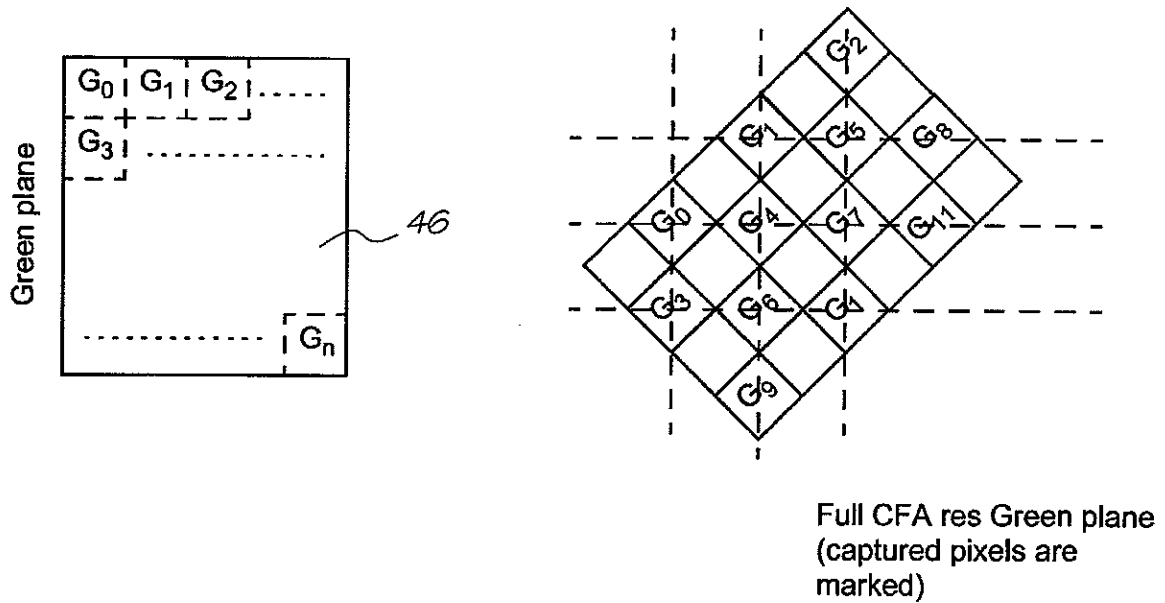


FIG. 23

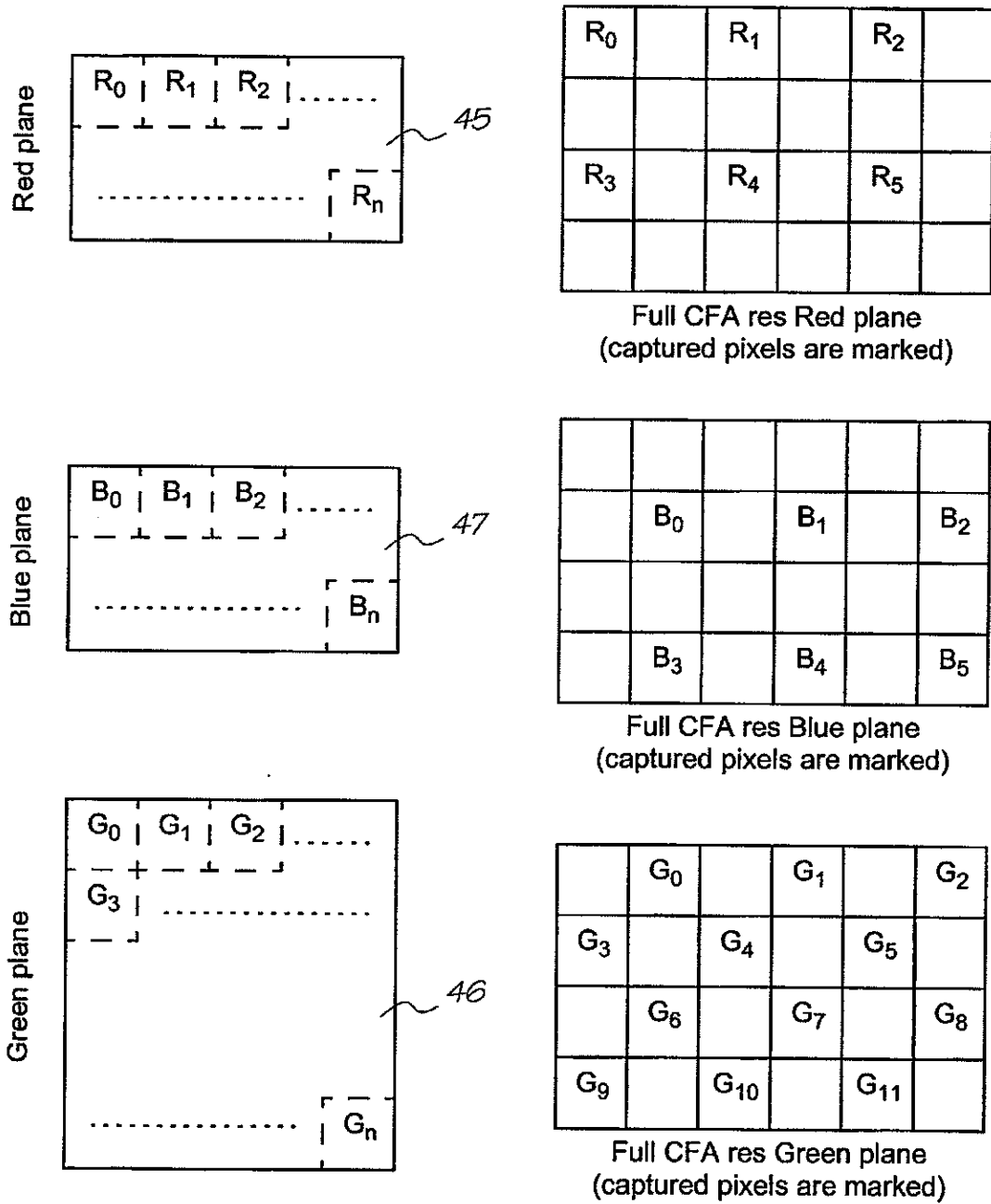


FIG. 22

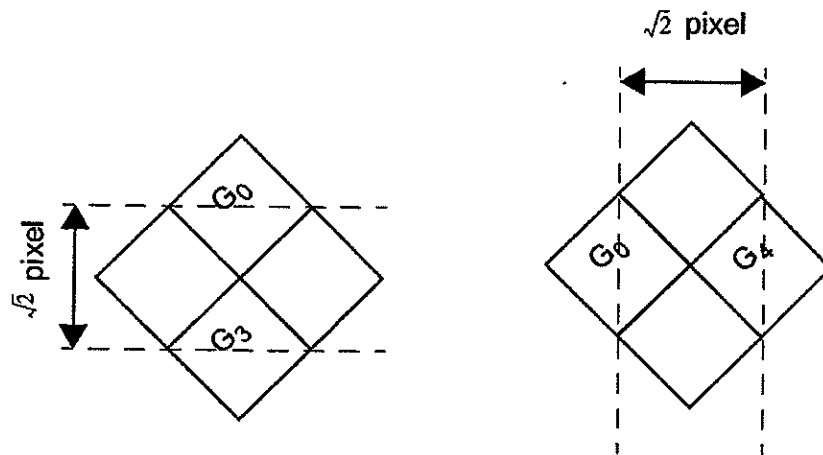


FIG. 24

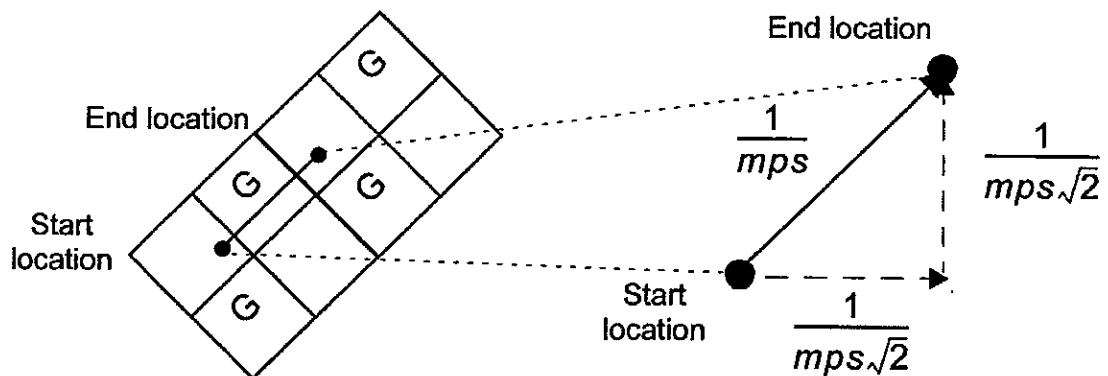


FIG. 25

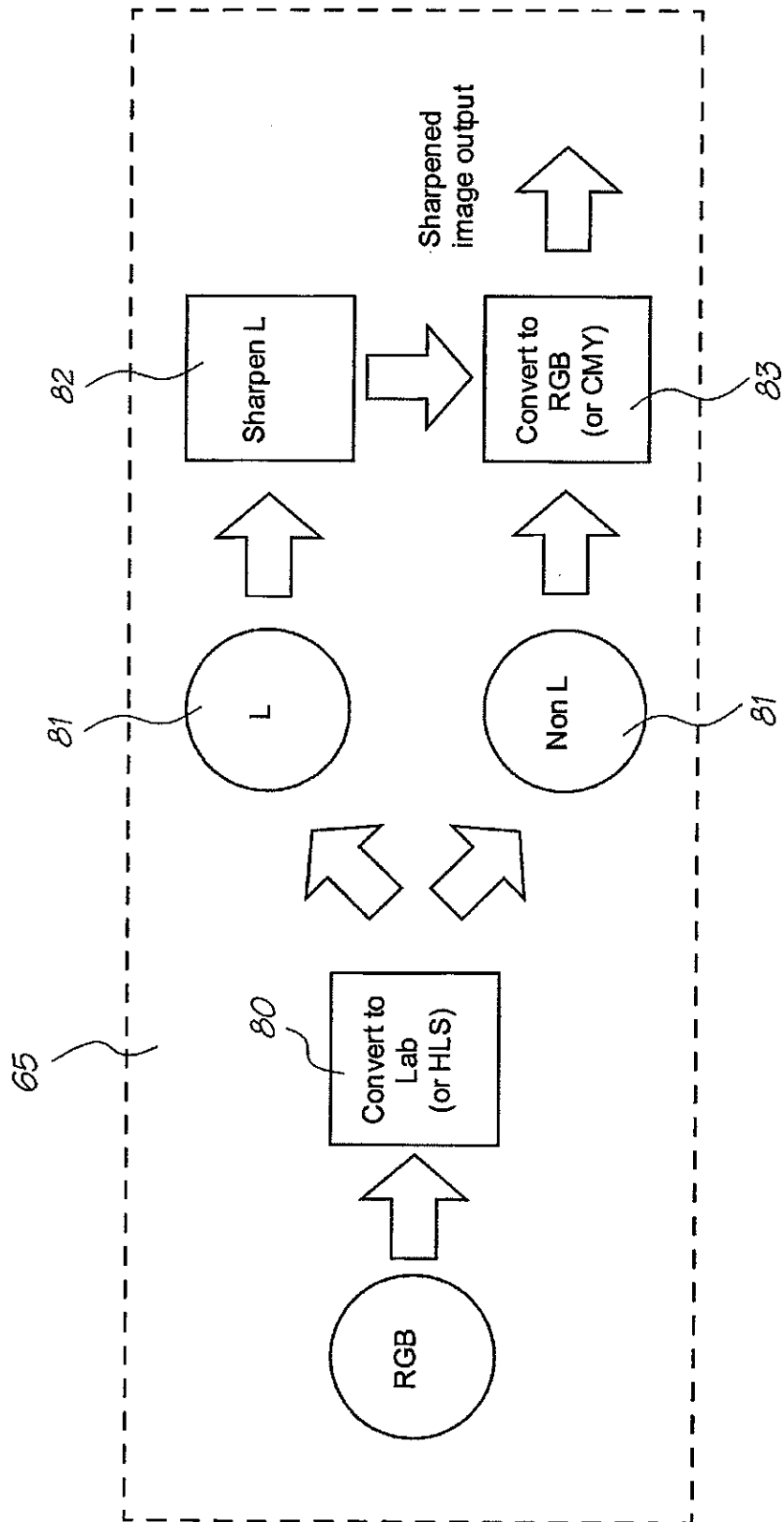


FIG. 26

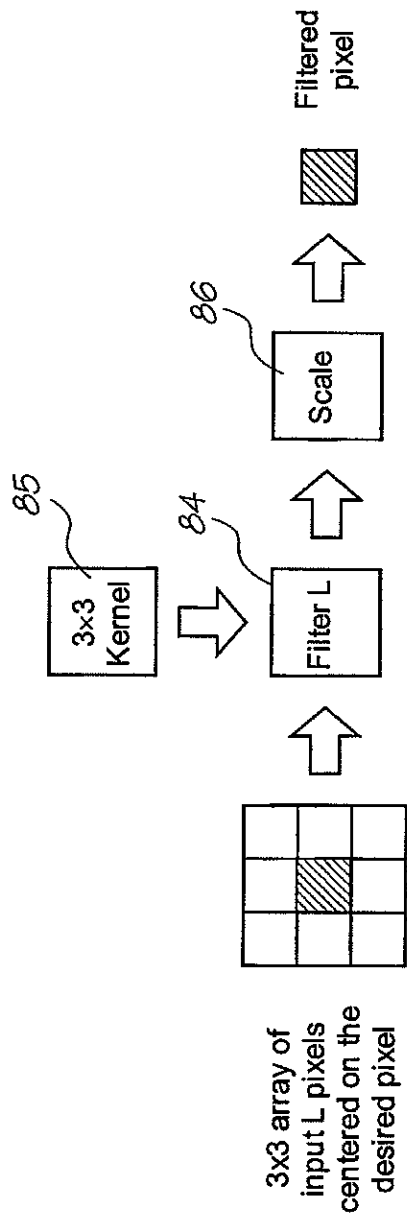


FIG. 27

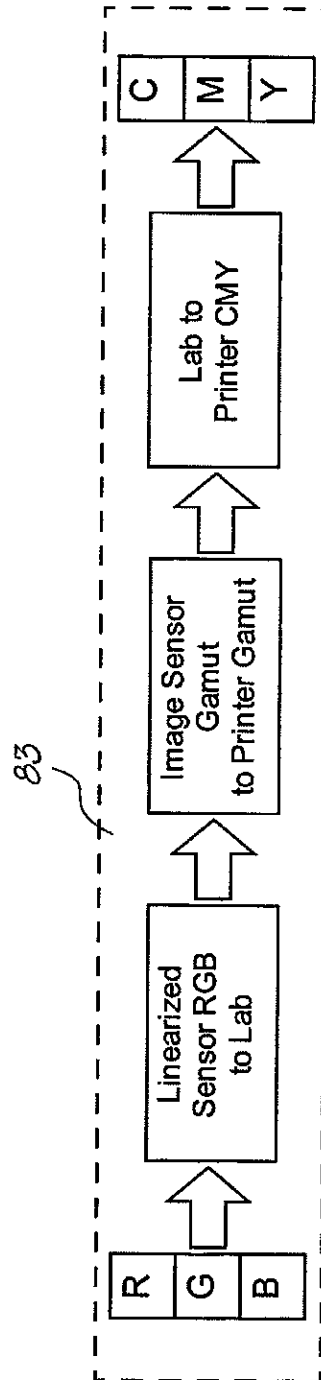


FIG. 28

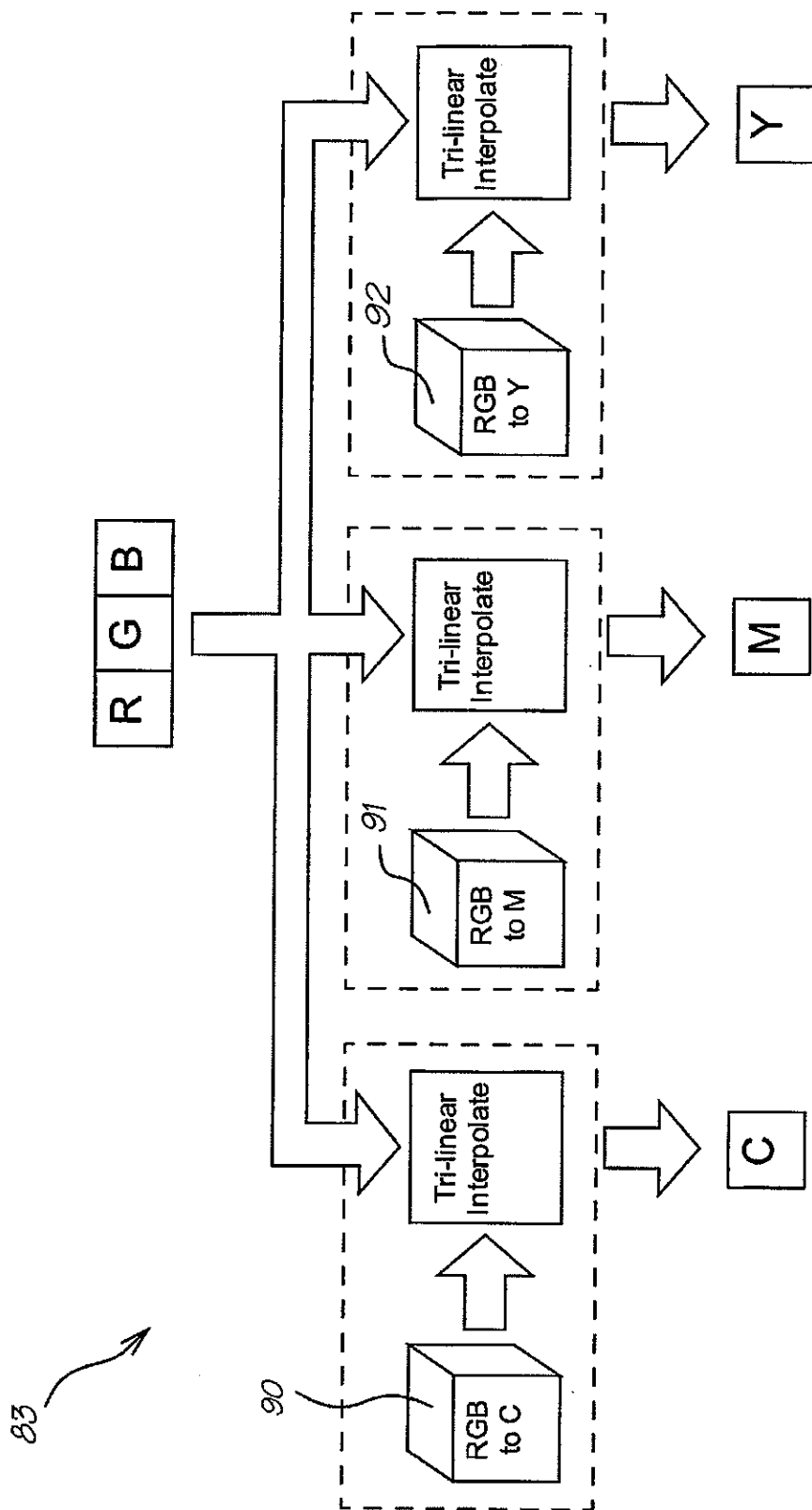


FIG. 29

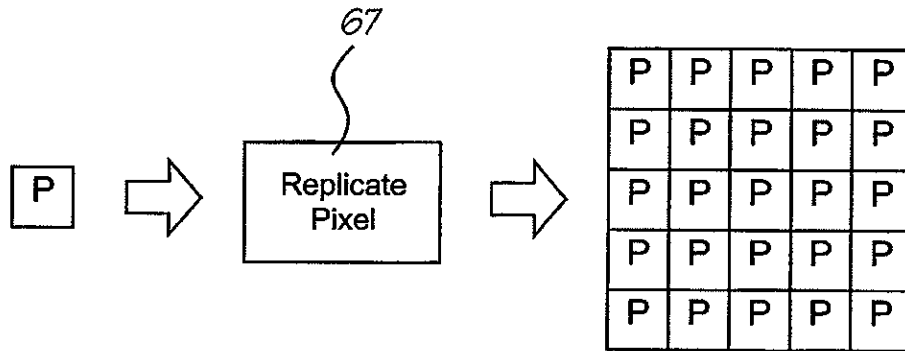


FIG. 30

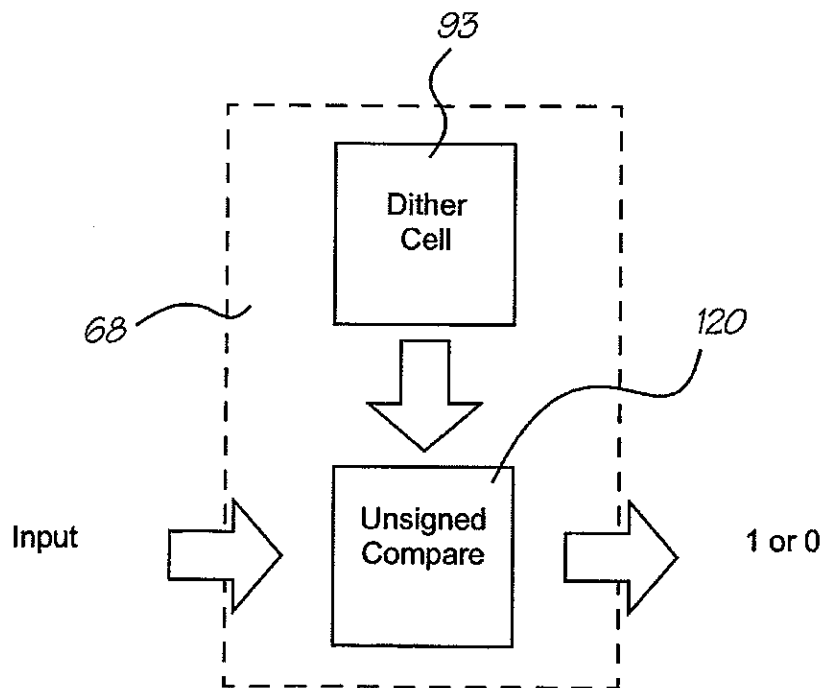


FIG. 31

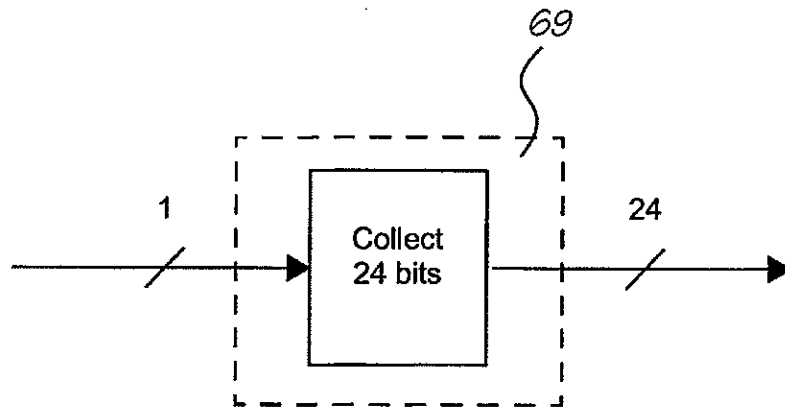


FIG. 32

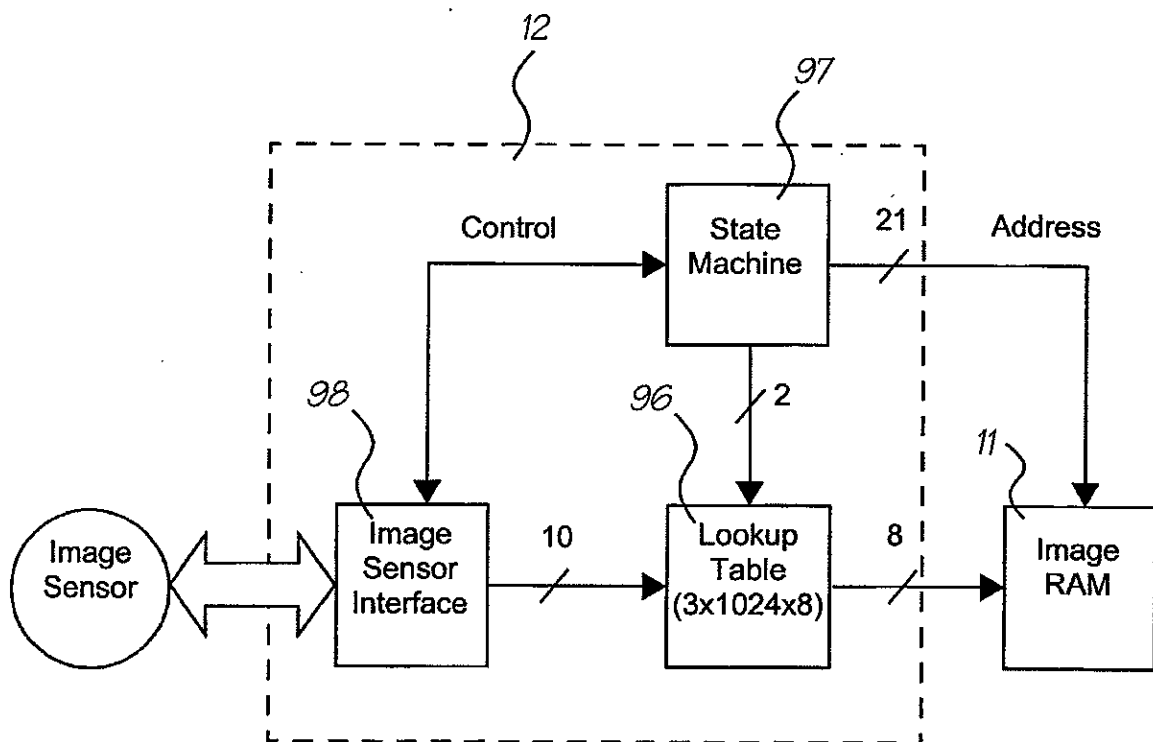


FIG. 33

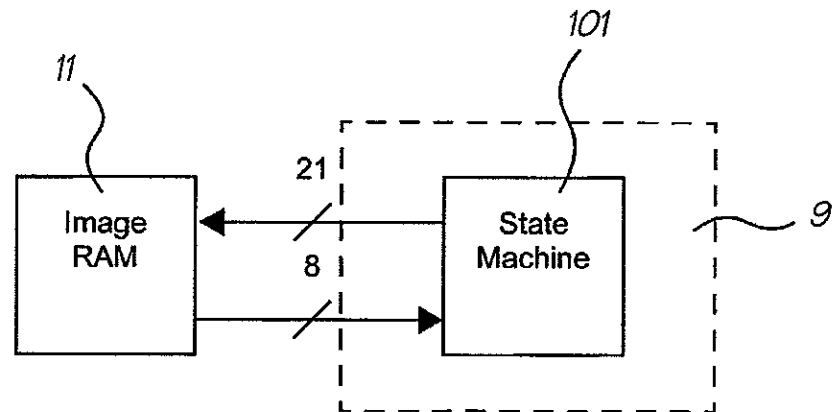


FIG. 35

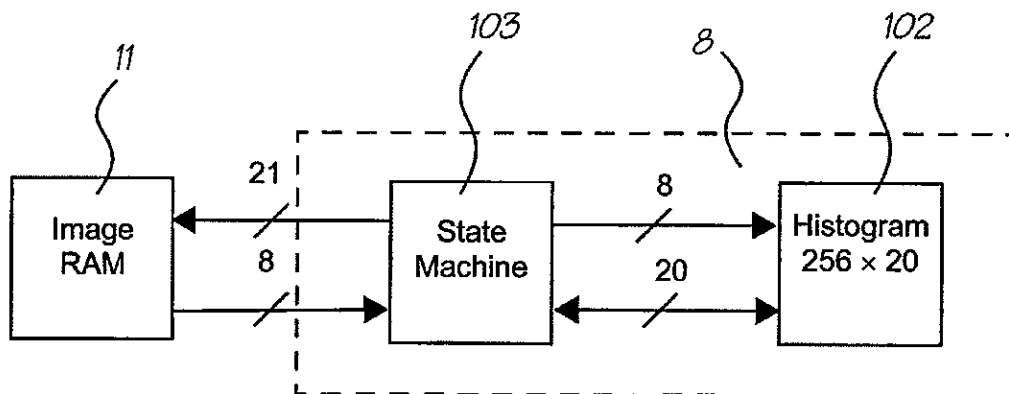


FIG. 36

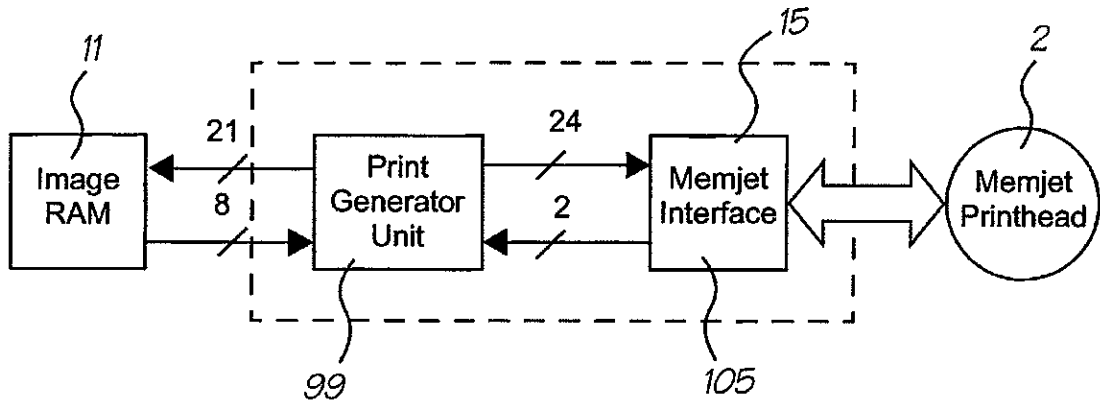


FIG. 37

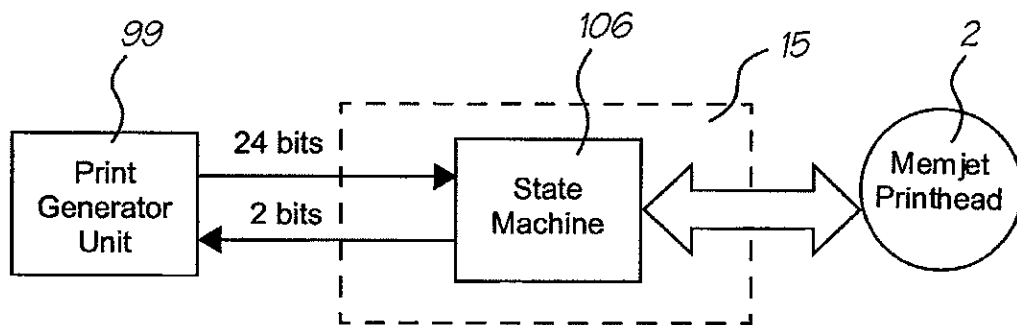


FIG. 38

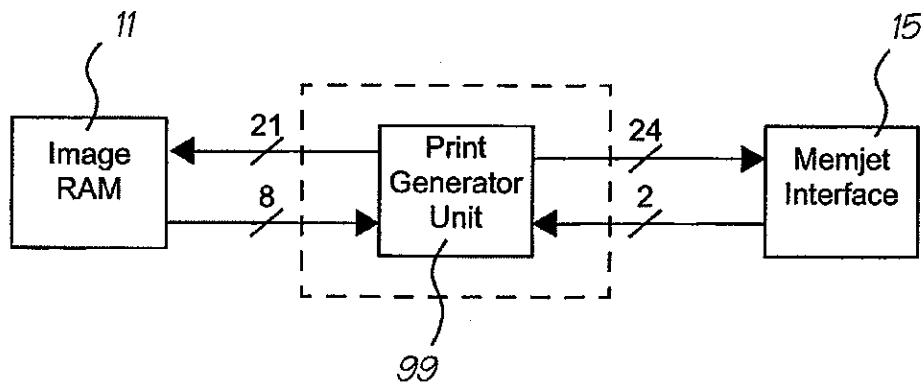


FIG. 41

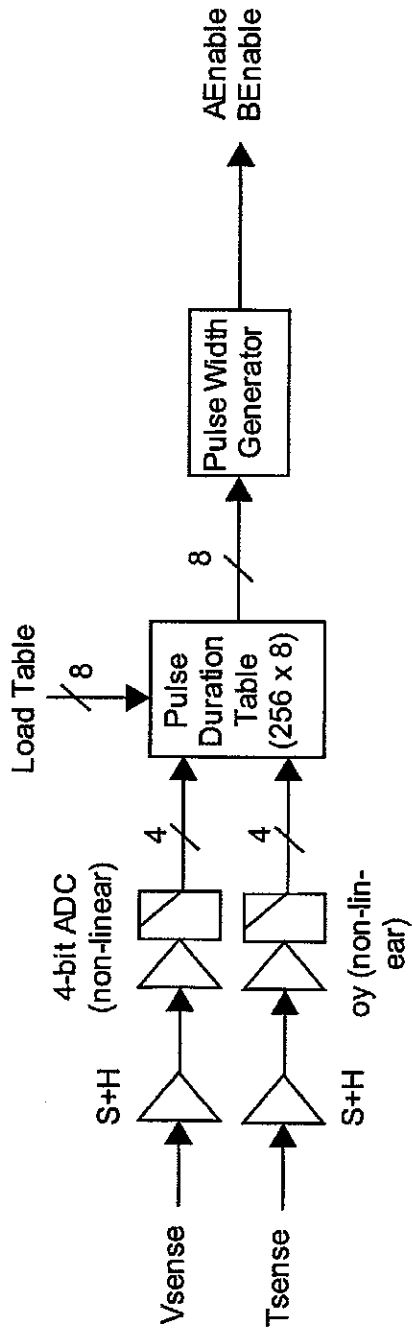


FIG. 39

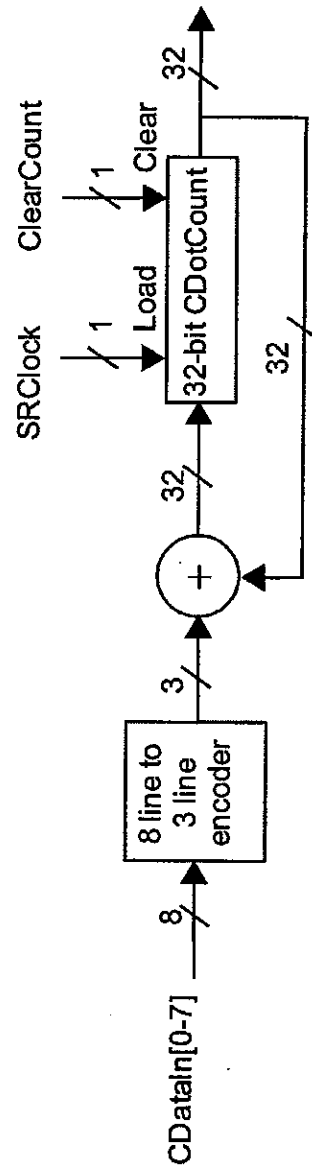


FIG. 40

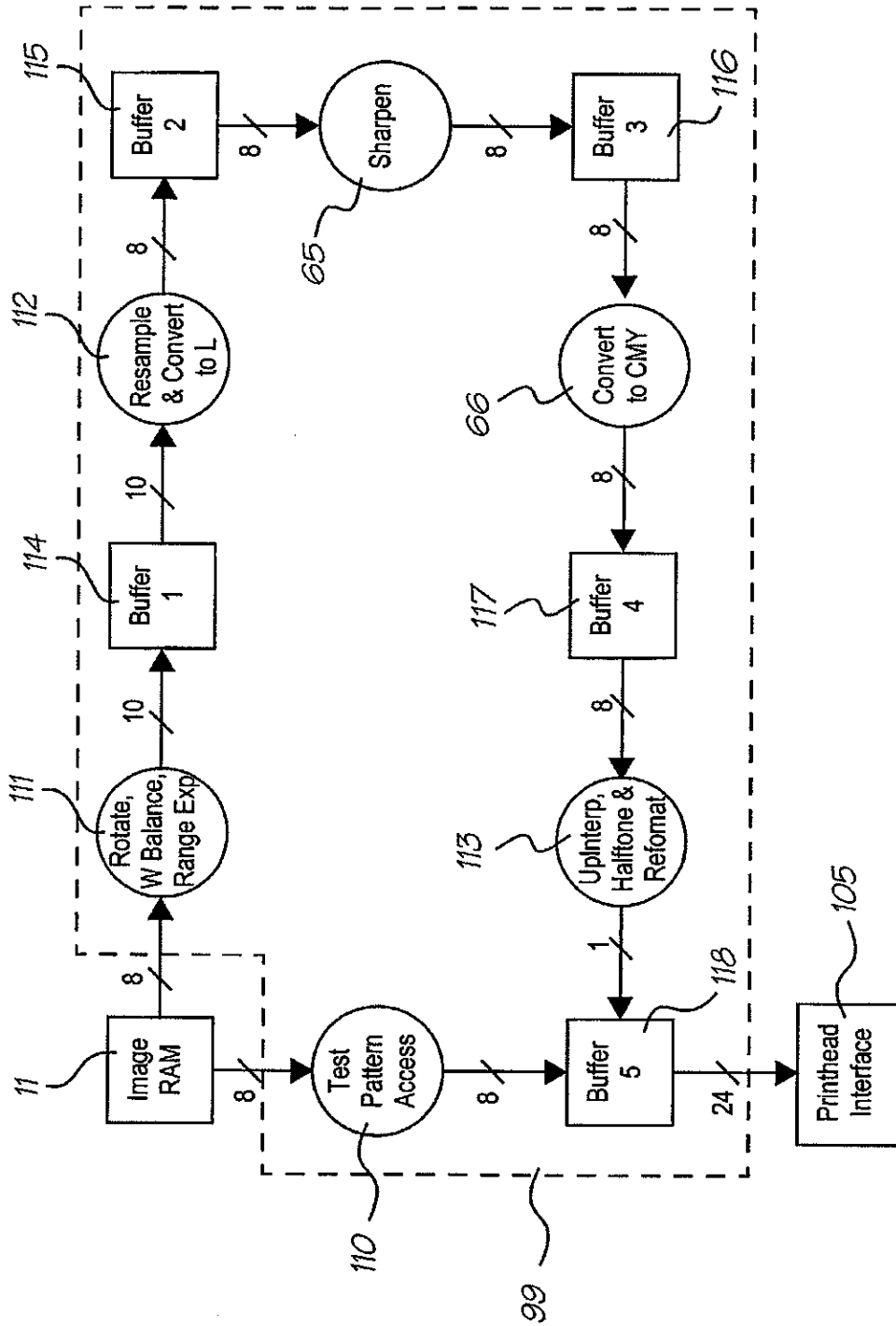


FIG. 42

27/43

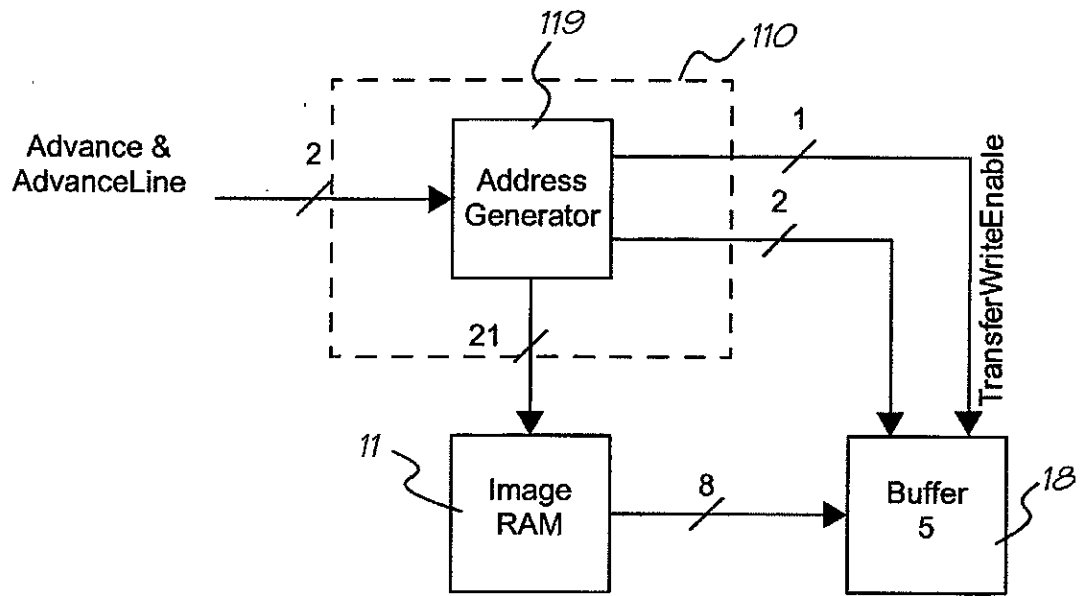


FIG. 43

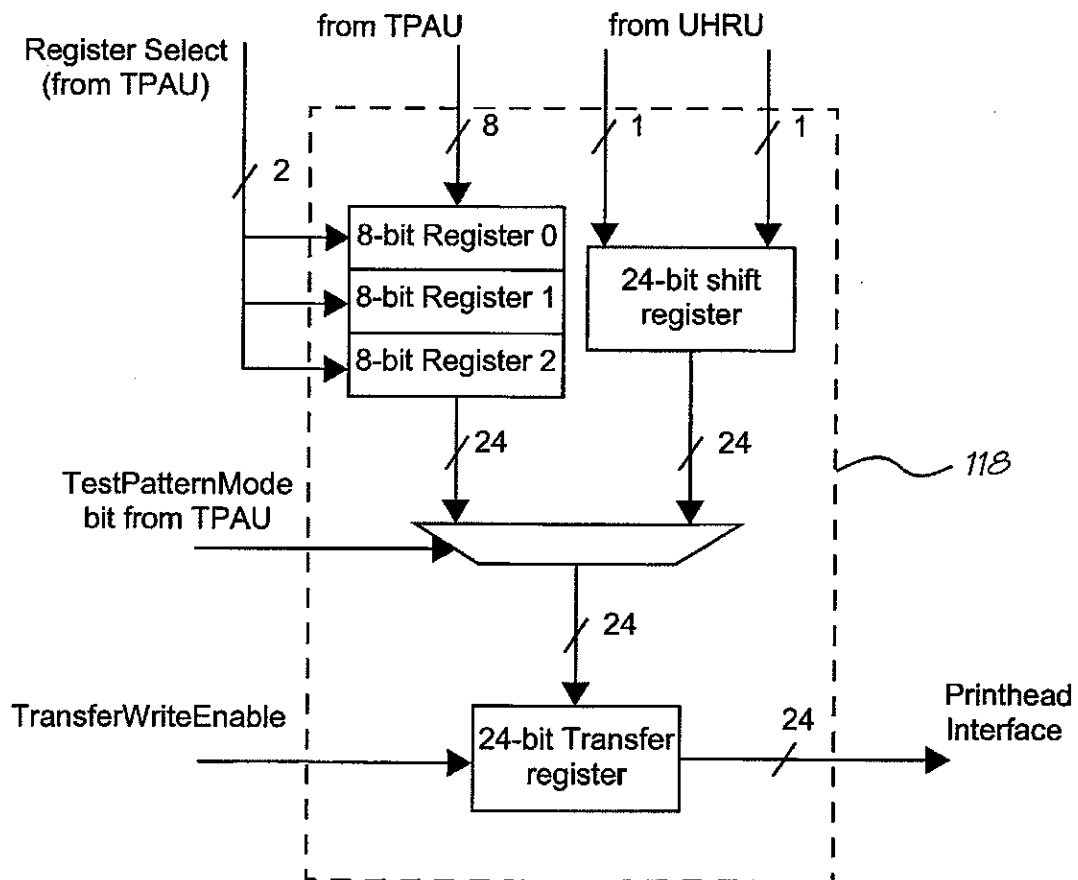


FIG. 44

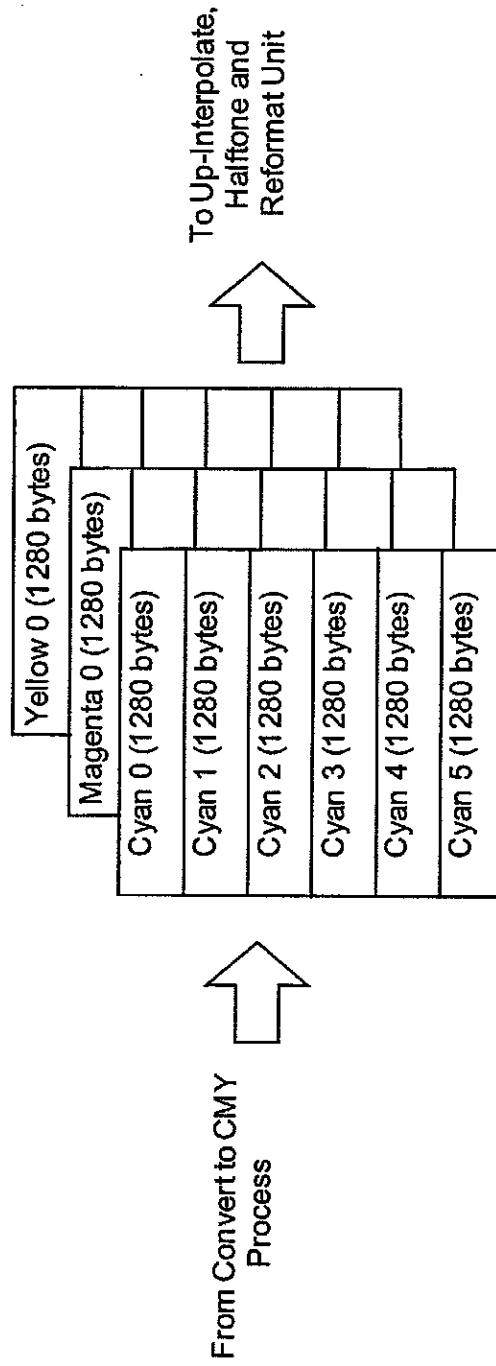


FIG. 45

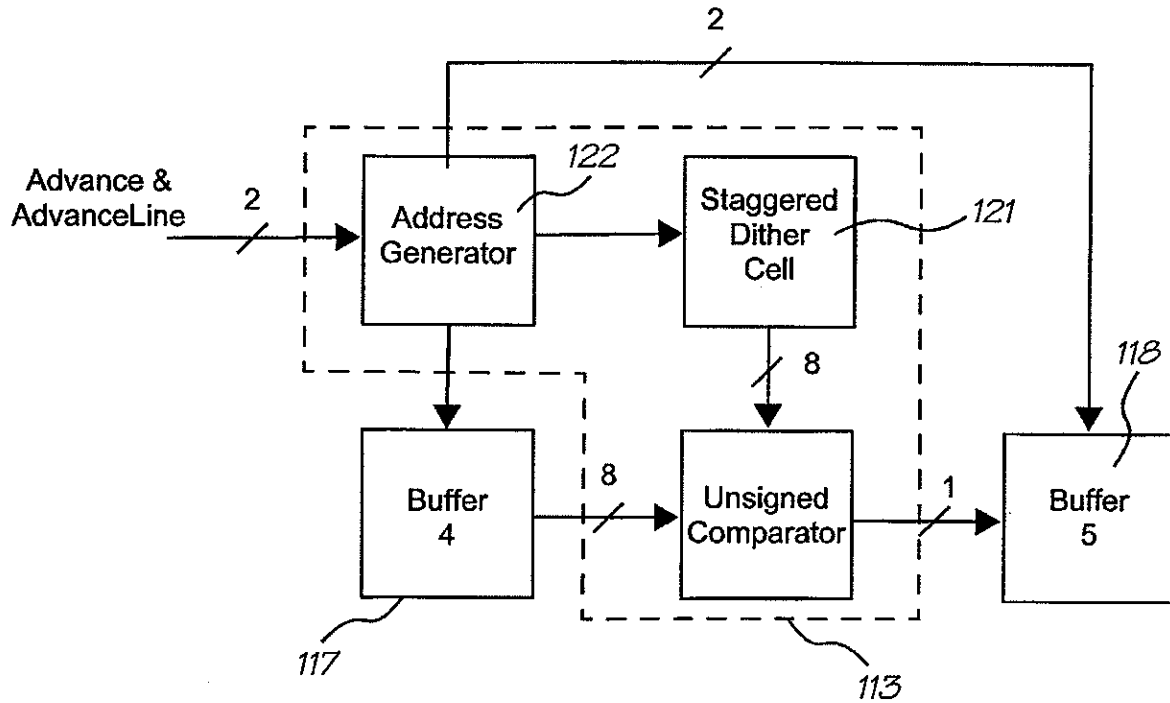


FIG. 46

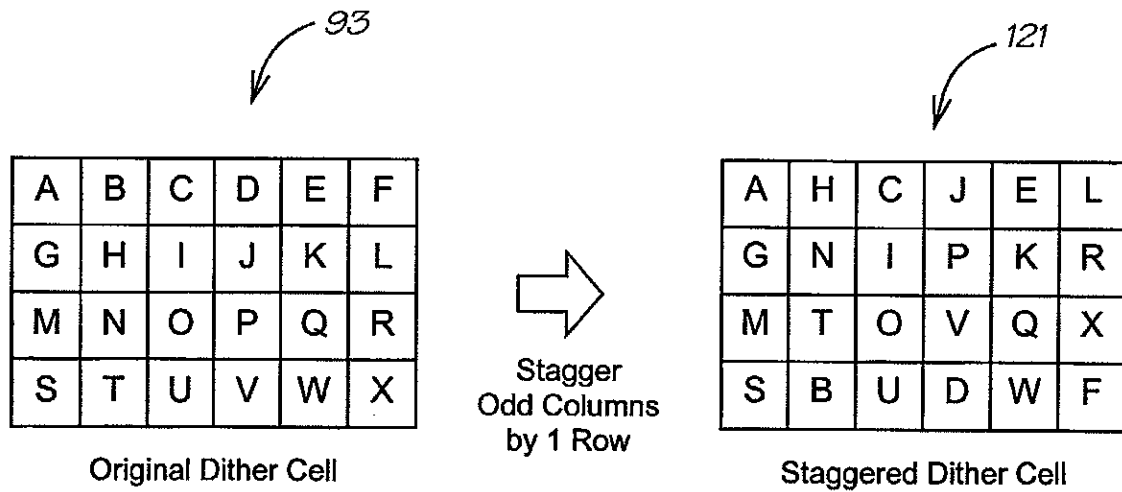


FIG. 47

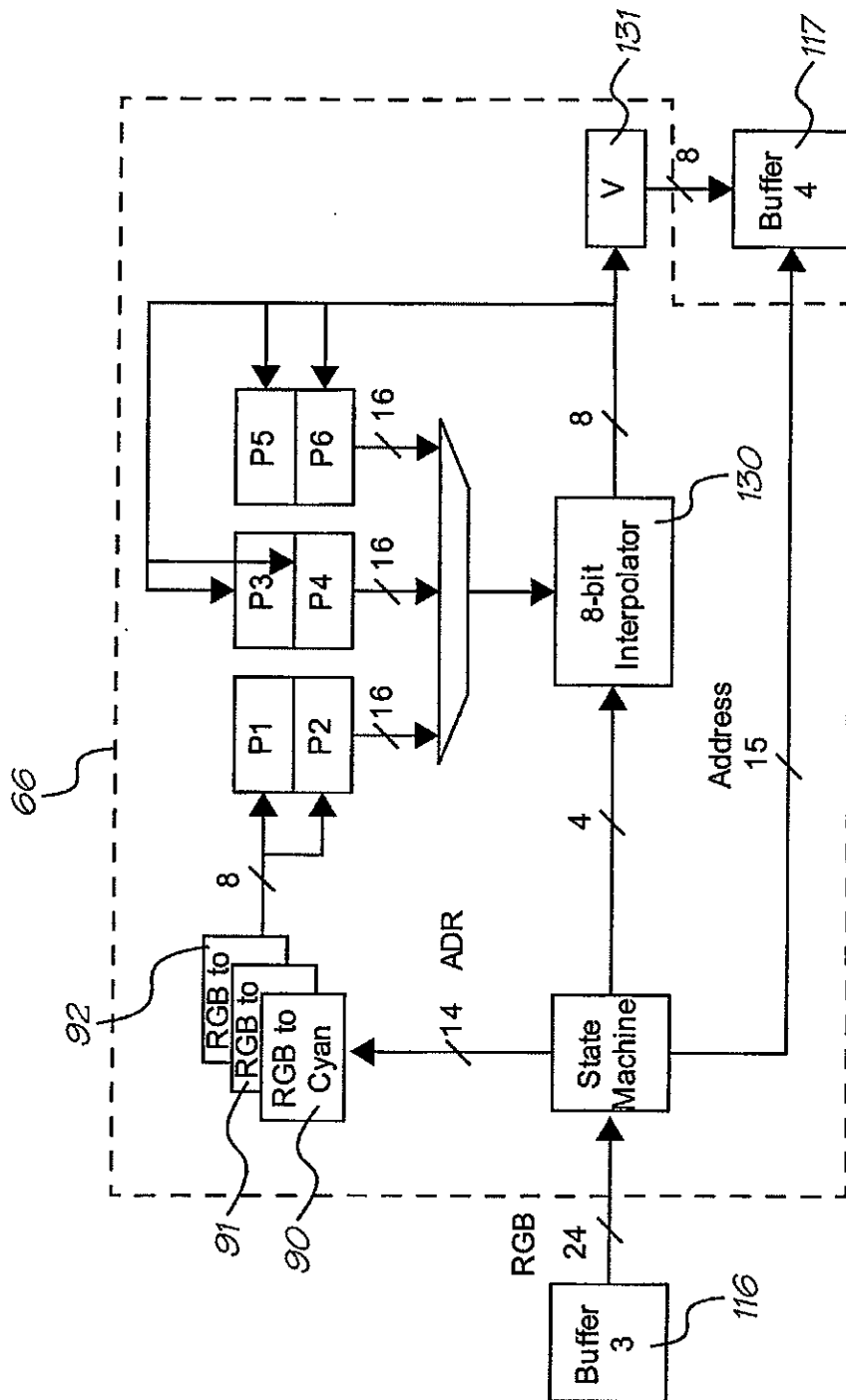


FIG. 48

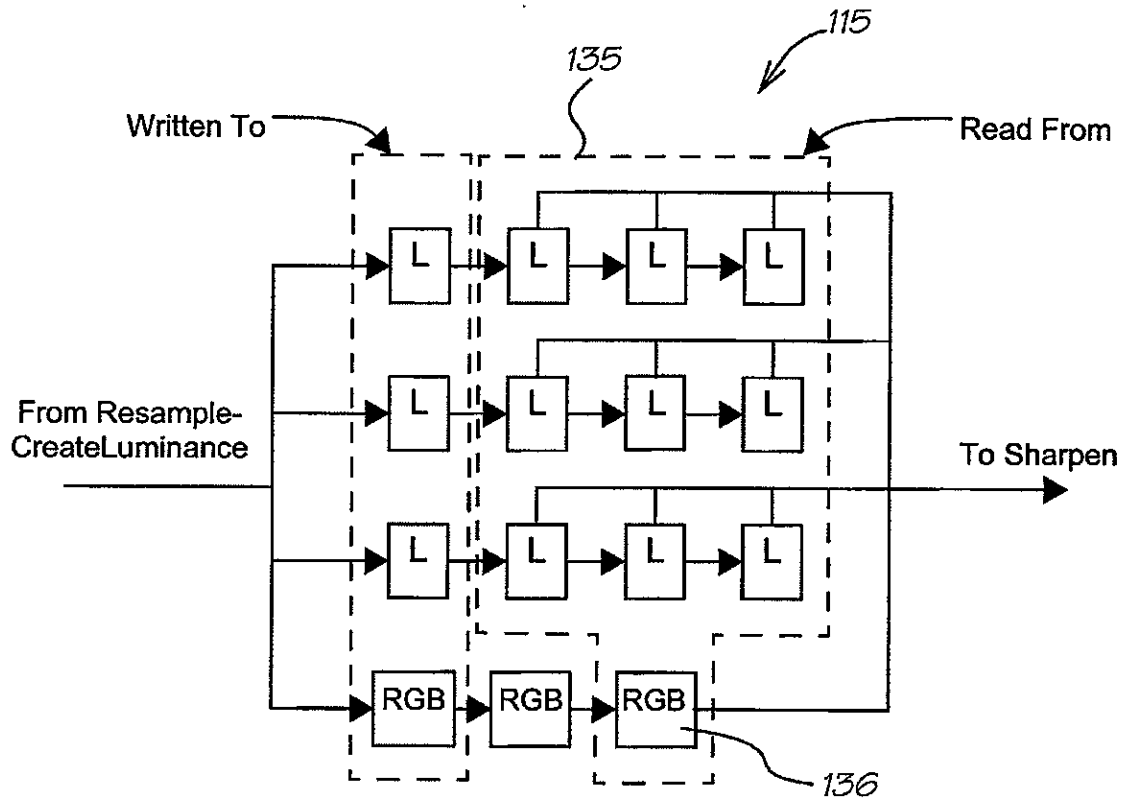


FIG. 49

$$\frac{1}{9} \times$$

|    |    |    |
|----|----|----|
| -1 | -1 | -1 |
| -1 | 8  | -1 |
| -1 | -1 | -1 |

FIG. 50

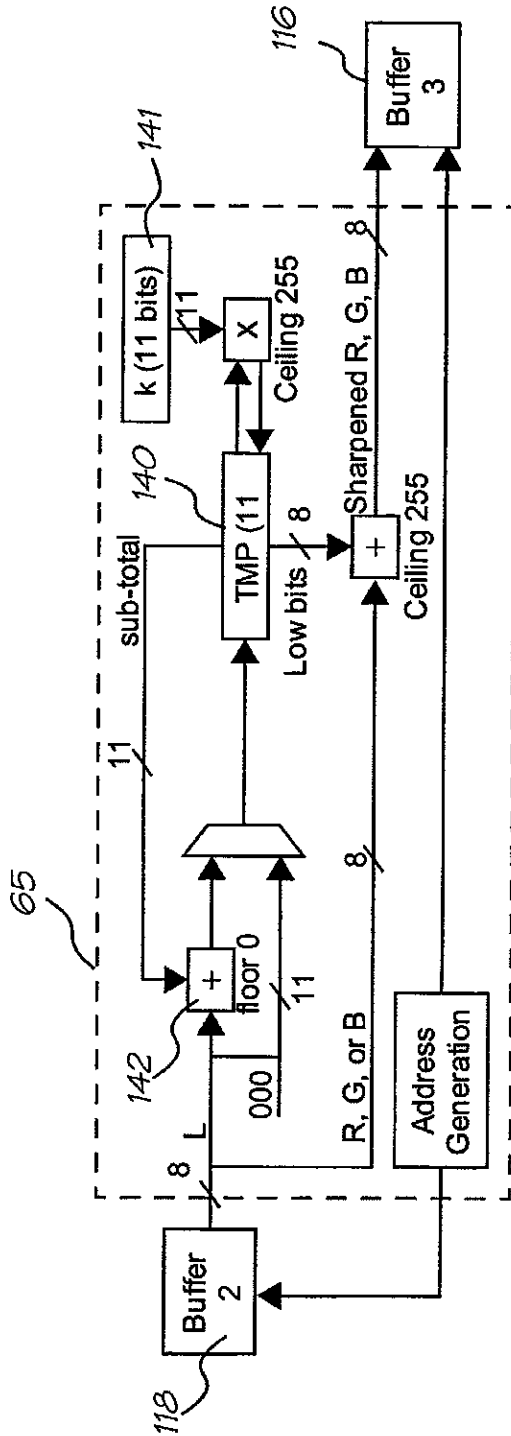


FIG. 51

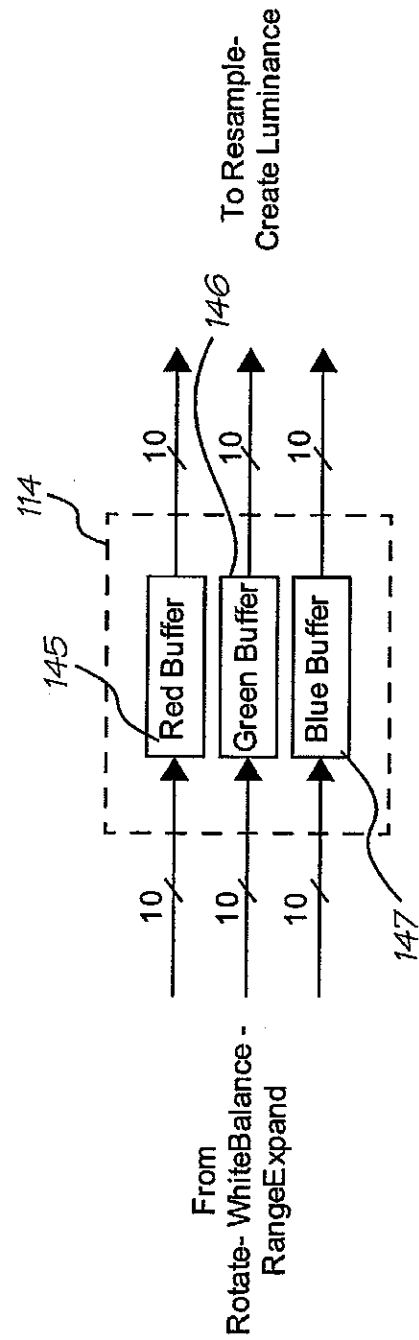


FIG. 52

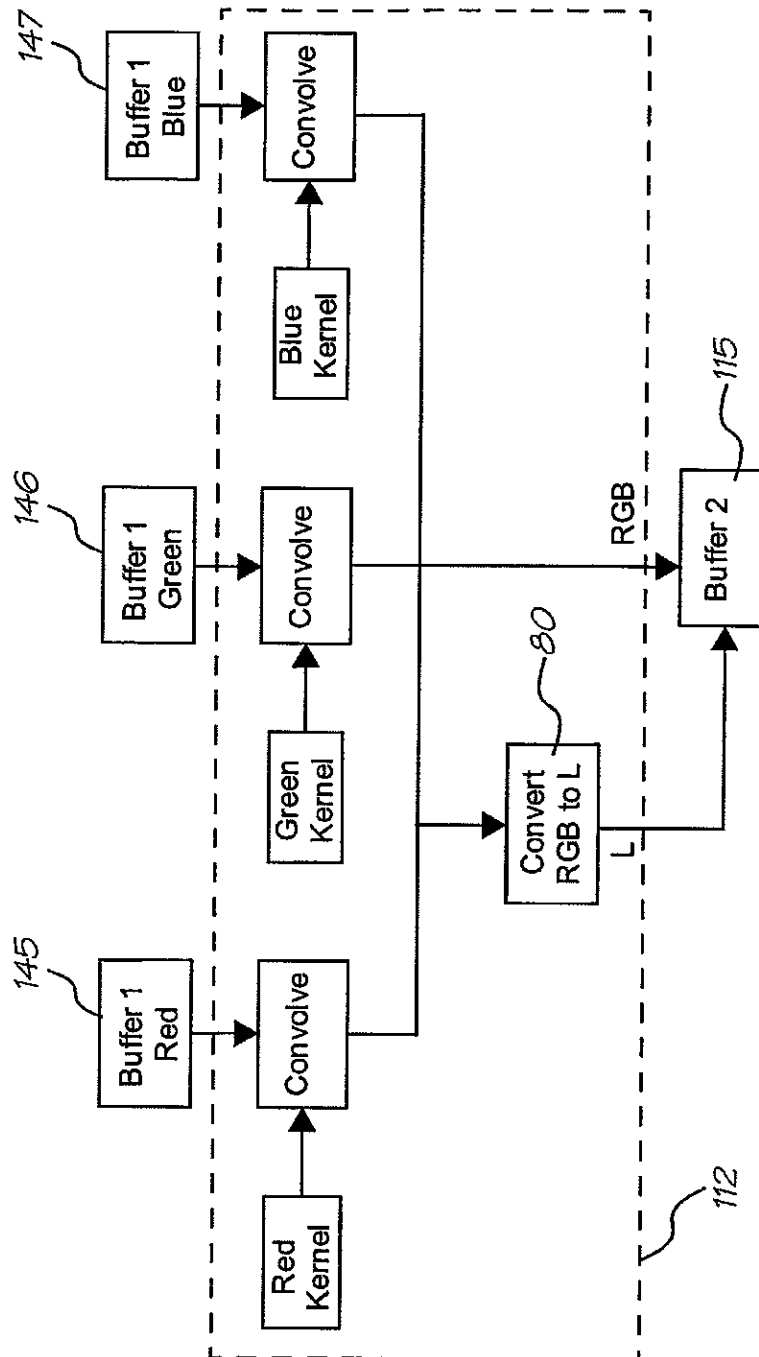
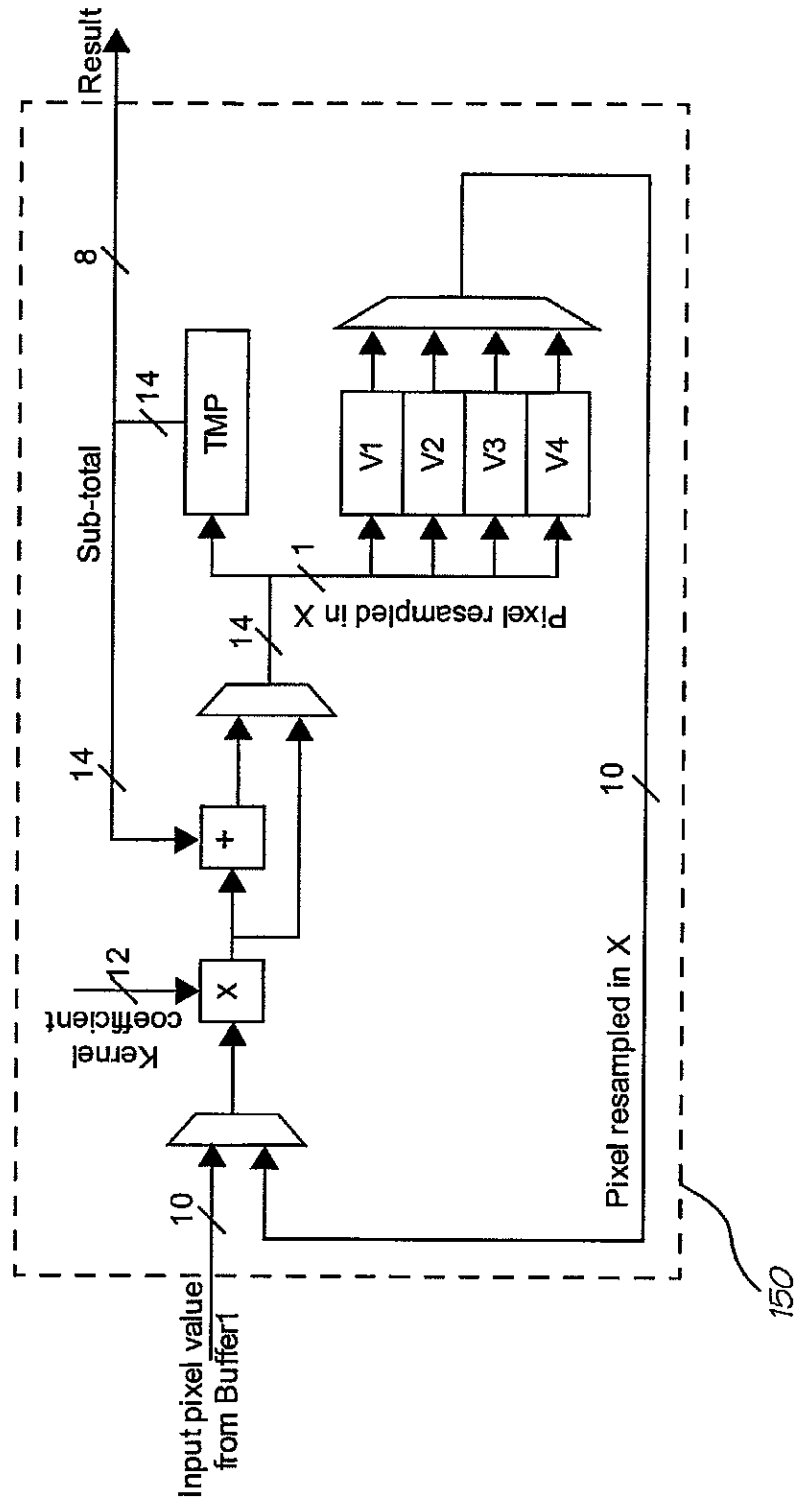


FIG. 53



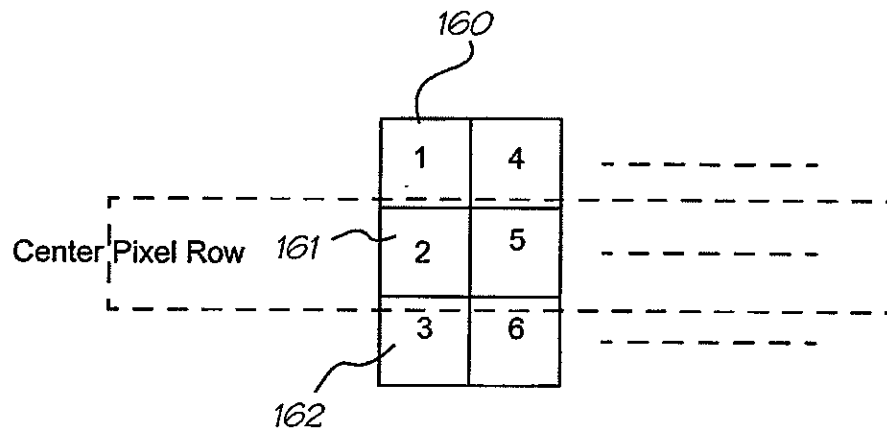


FIG. 55

|    |    |    |    |    |    |
|----|----|----|----|----|----|
| 0  | 13 | 26 | 39 | 52 | 65 |
| 1  | 14 | 27 | 40 | 53 | 66 |
|    |    |    |    |    |    |
| 10 | 23 | 36 | 49 | 62 | 75 |
| 11 | 24 | 37 | 50 | 63 | 76 |
| 12 | 25 | 38 | 51 | 64 | 77 |

FIG. 57

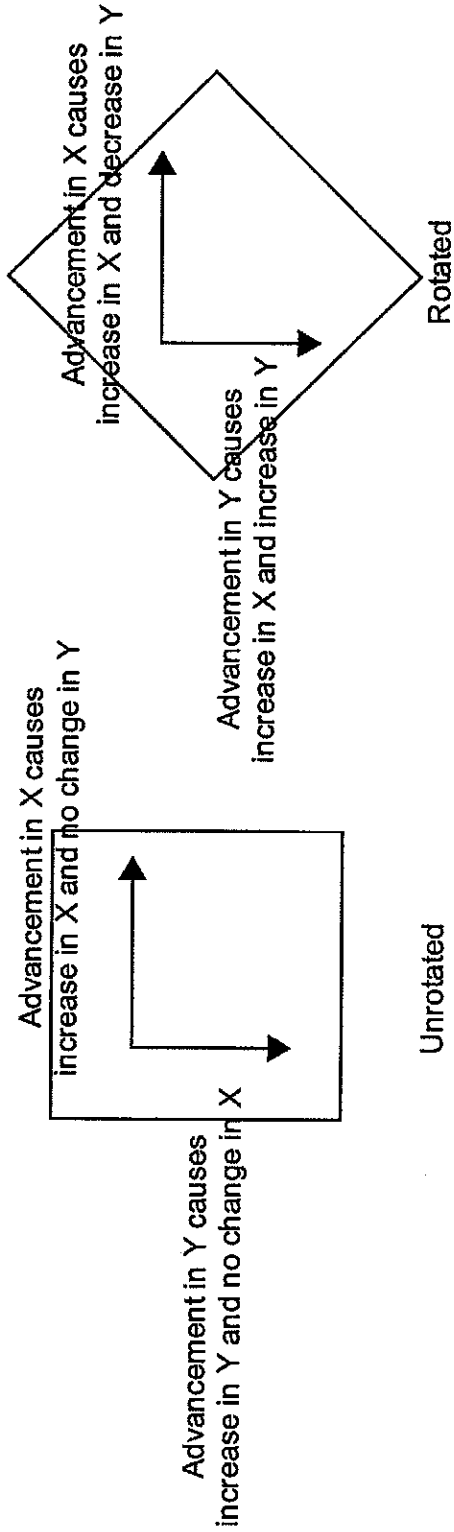


FIG. 56

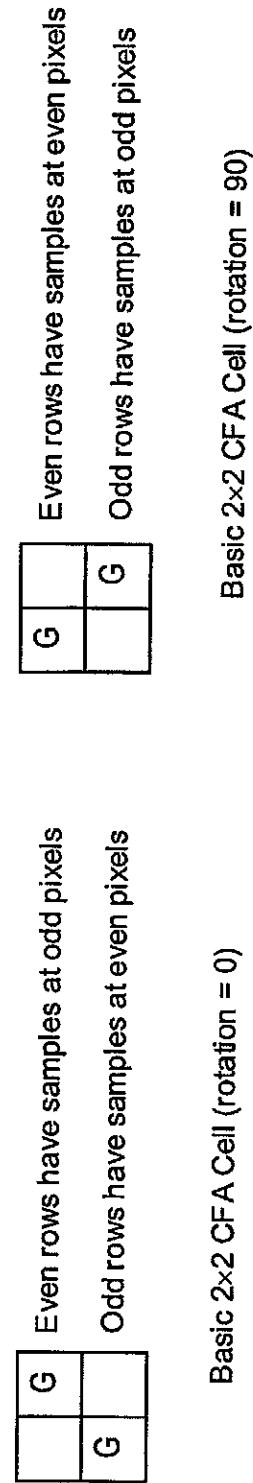


FIG. 58

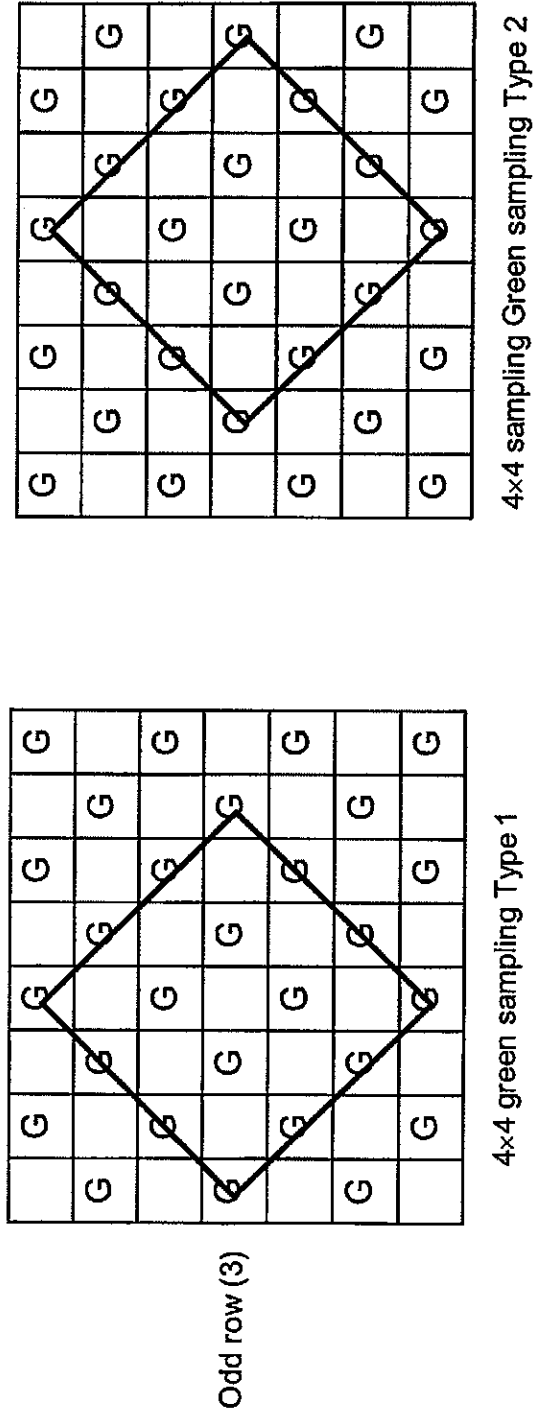
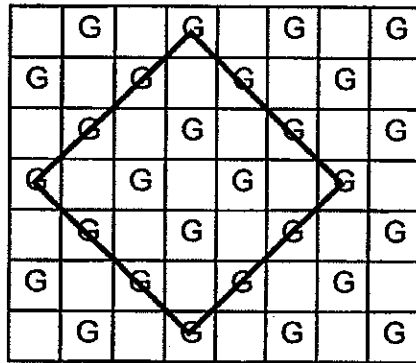
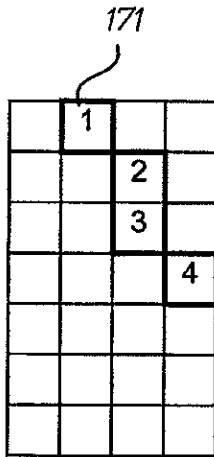
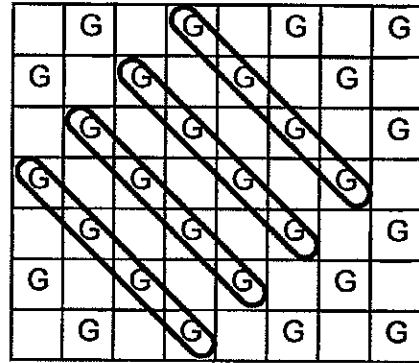


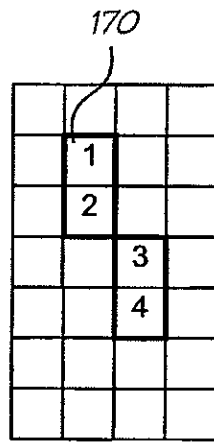
FIG. 59



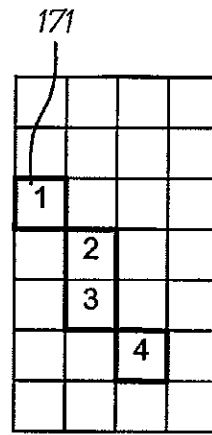
4x4 green sampling Type 1



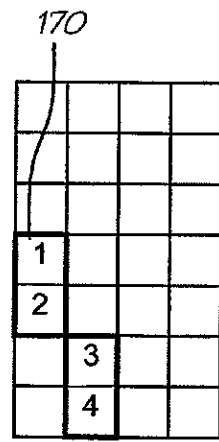
Row 1



Row 2

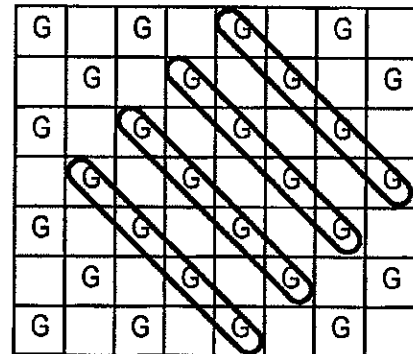
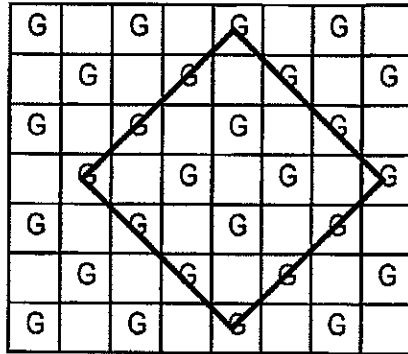


Row 3

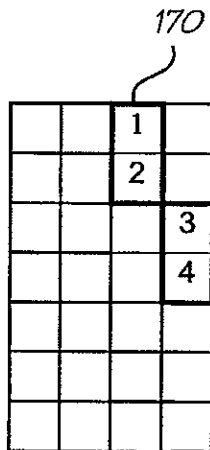


Row 4

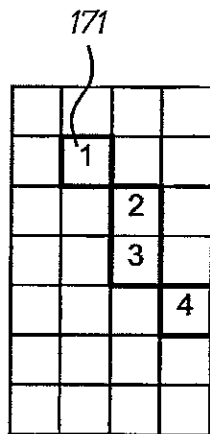
FIG. 60



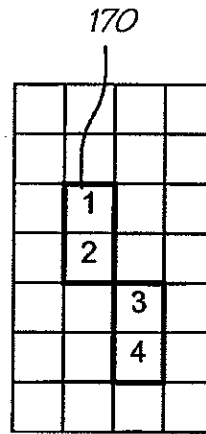
4x4 green sampling Type 2



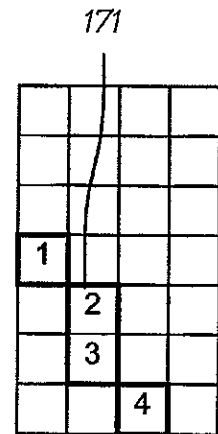
Row 1



Row 2



Row 3



Row 4

FIG. 61

40/43

|   |   |
|---|---|
| 1 |   |
| 2 |   |
|   | 3 |
|   | 4 |

Type A ~ 170

|   |   |   |
|---|---|---|
| 1 |   |   |
|   | 2 |   |
|   | 3 |   |
|   |   | 4 |

Type B ~ 171

FIG. 62

|   |    |    |    |    |    |
|---|----|----|----|----|----|
| 0 | 6  | 12 | 18 | 24 | 30 |
| 1 | 7  | 13 | 19 | 25 | 31 |
| 2 | 8  | 14 | 20 | 26 | 32 |
| 3 | 9  | 15 | 21 | 27 | 33 |
| 4 | 10 | 16 | 22 | 28 | 34 |
| 5 | 11 | 17 | 23 | 29 | 35 |

FIG. 63

|    |    |    |    |  |  |
|----|----|----|----|--|--|
| 1  | 2  | 3  | 4  |  |  |
| 5  | 6  | 7  | 8  |  |  |
| 9  | 10 | 11 | 12 |  |  |
| 13 | 14 | 15 | 16 |  |  |
|    |    |    |    |  |  |
|    |    |    |    |  |  |

FIG. 64

|    |    |    |    |  |  |
|----|----|----|----|--|--|
|    |    |    |    |  |  |
|    |    |    |    |  |  |
| 1  | 2  | 3  | 4  |  |  |
| 5  | 6  | 7  | 8  |  |  |
| 9  | 10 | 11 | 12 |  |  |
| 13 | 14 | 15 | 16 |  |  |

16 samples read for 3rd Pixel

|    |    |    |    |  |  |
|----|----|----|----|--|--|
|    |    |    |    |  |  |
| 1  | 2  | 3  | 4  |  |  |
| 5  | 6  | 7  | 8  |  |  |
| 9  | 10 | 11 | 12 |  |  |
| 13 | 14 | 15 | 16 |  |  |
|    |    |    |    |  |  |

16 samples read for 2nd Pixel

|    |    |    |    |  |  |
|----|----|----|----|--|--|
| 1  | 2  | 3  | 4  |  |  |
| 5  | 6  | 7  | 8  |  |  |
| 9  | 10 | 11 | 12 |  |  |
| 13 | 14 | 15 | 16 |  |  |
|    |    |    |    |  |  |
|    |    |    |    |  |  |

16 samples read for 1st Pixel)

FIG. 65

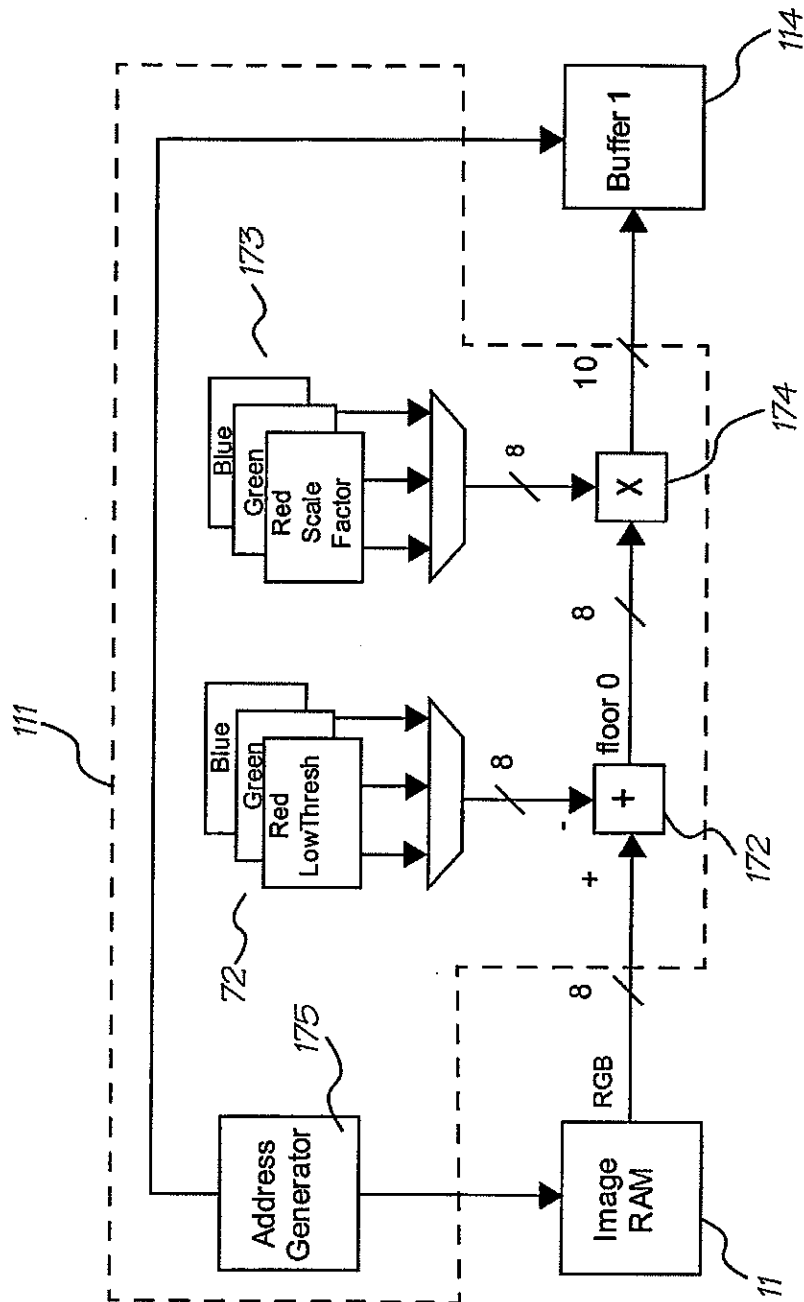


FIG. 66

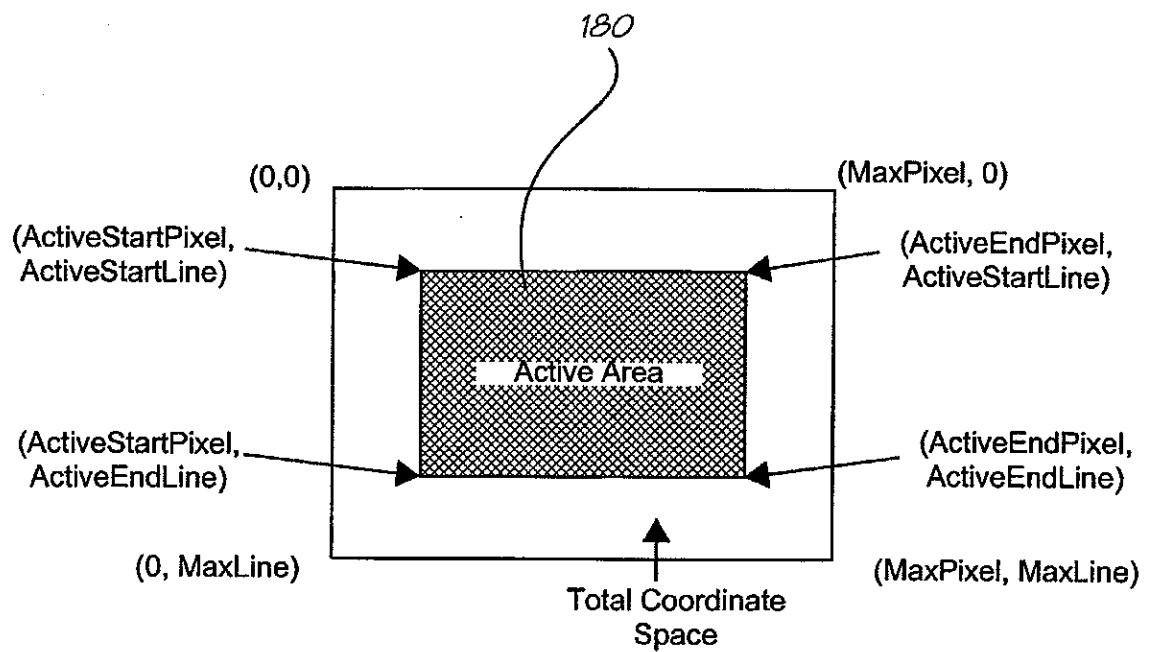


FIG. 67