

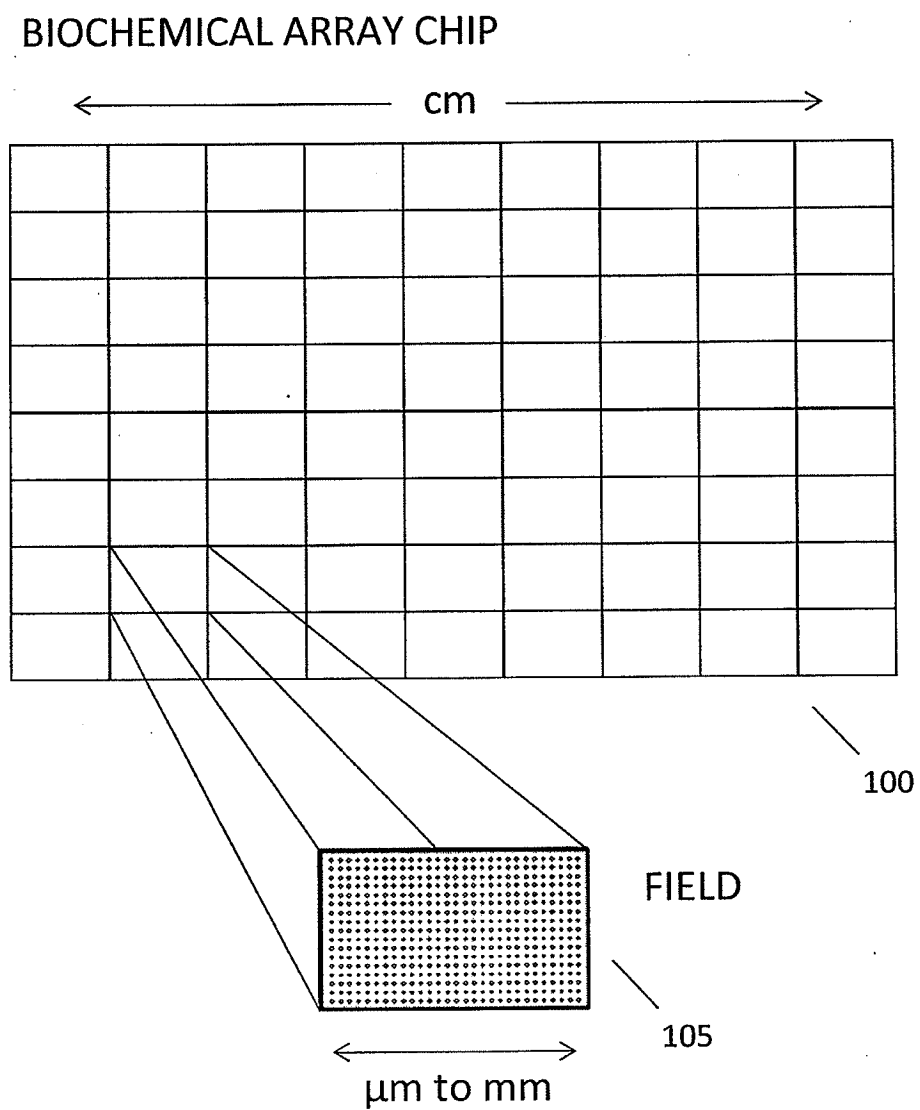


Fig. 1 (Prior Art)

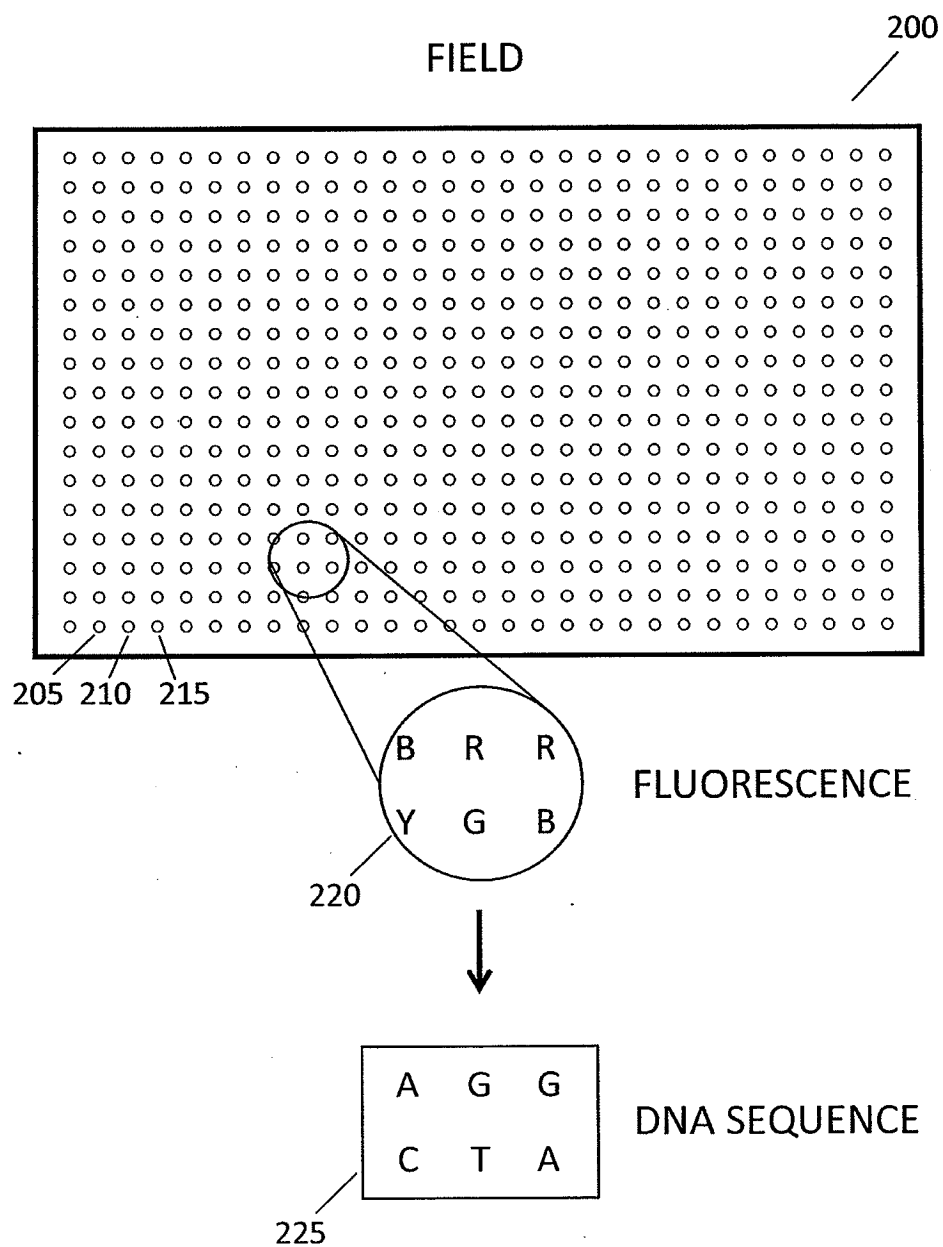


Fig. 2 (Prior Art)

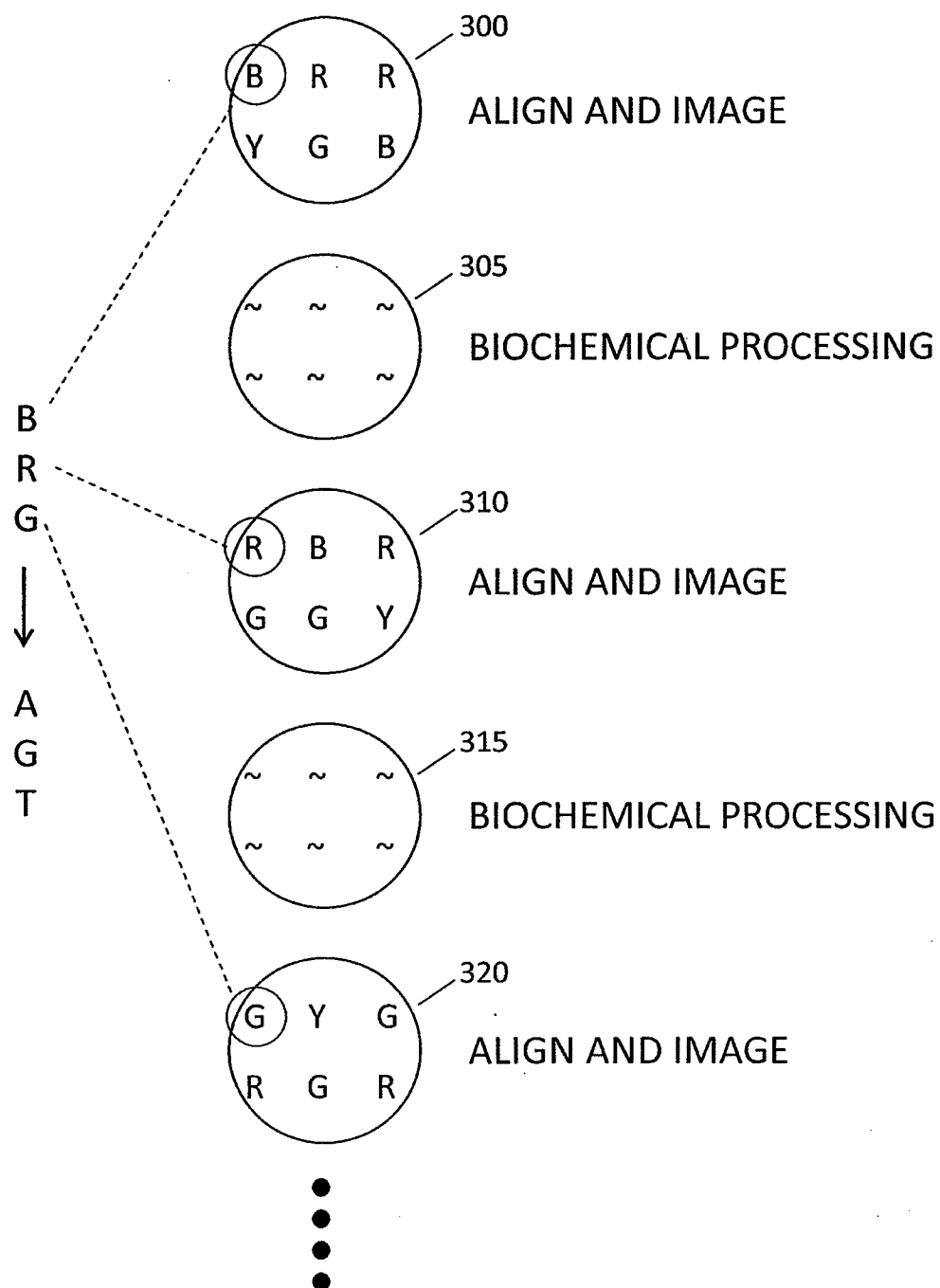


Fig. 3

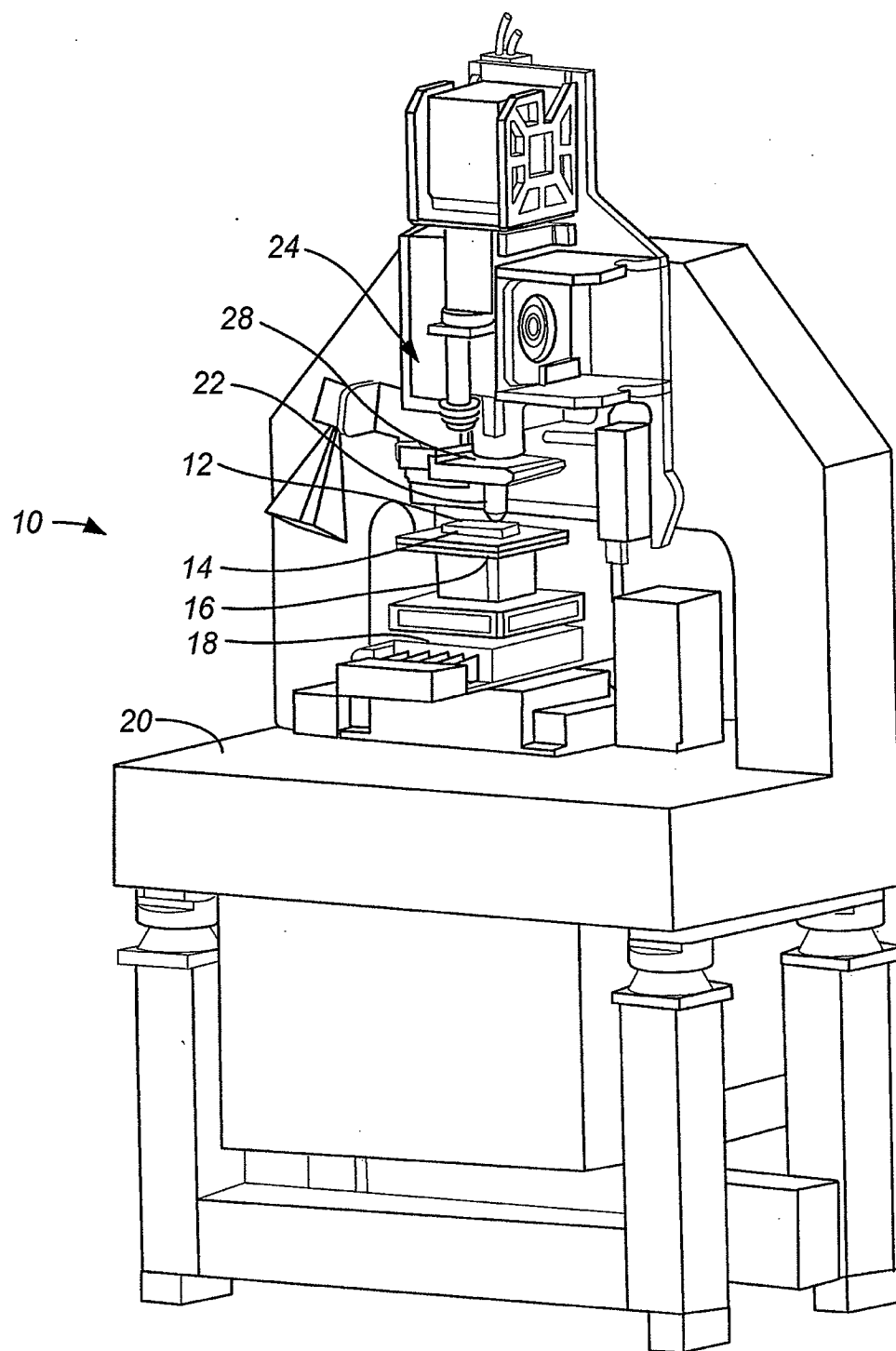


FIG. 4

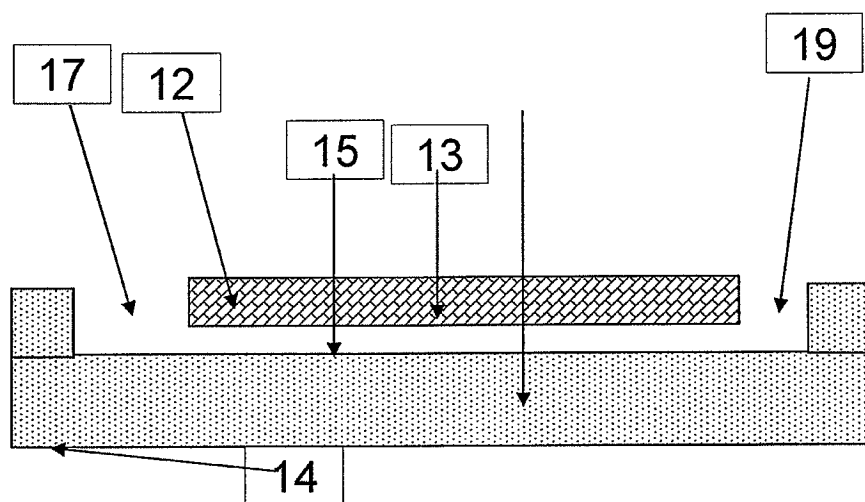


Fig. 5A

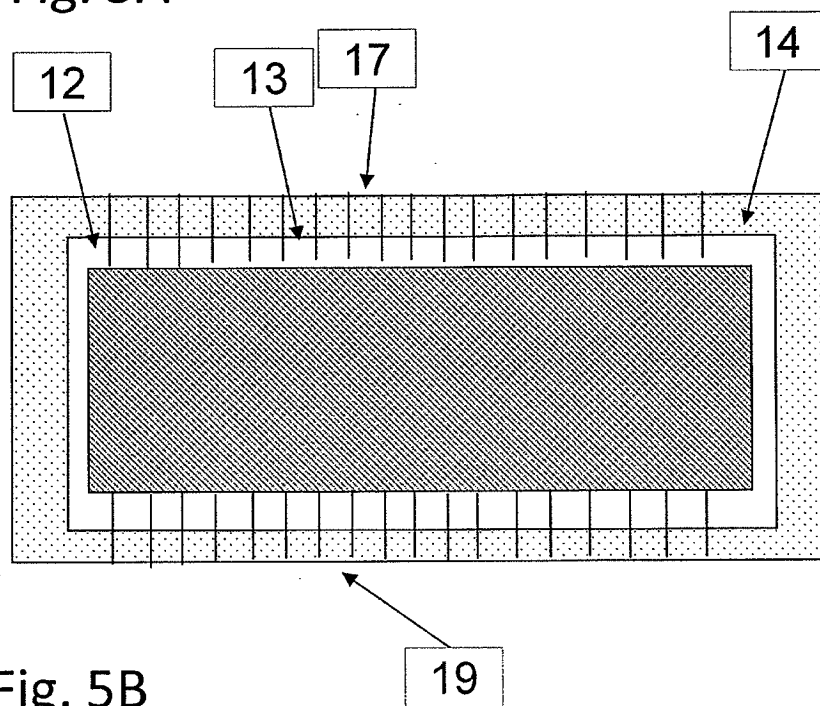


Fig. 5B

6/20

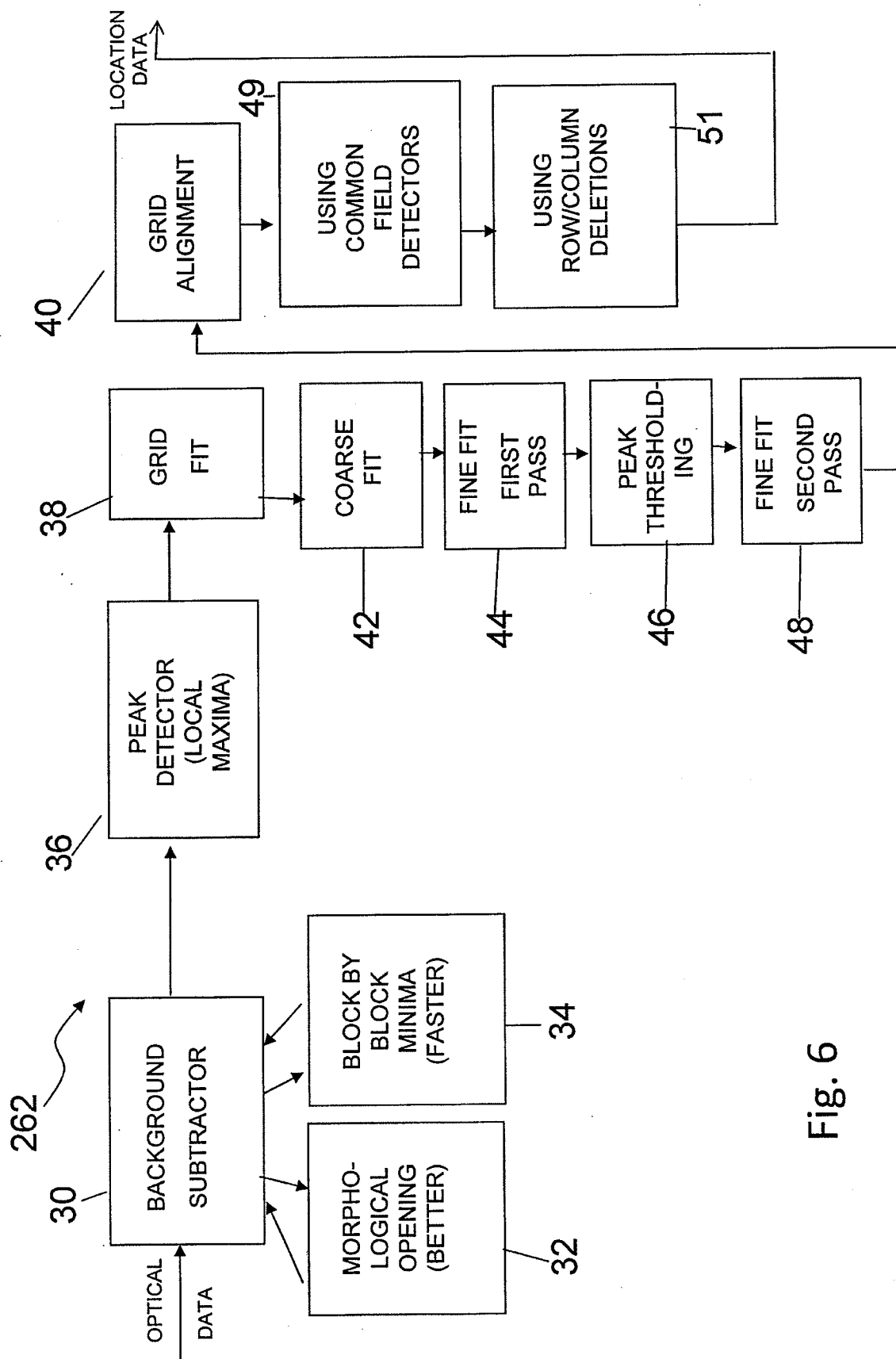
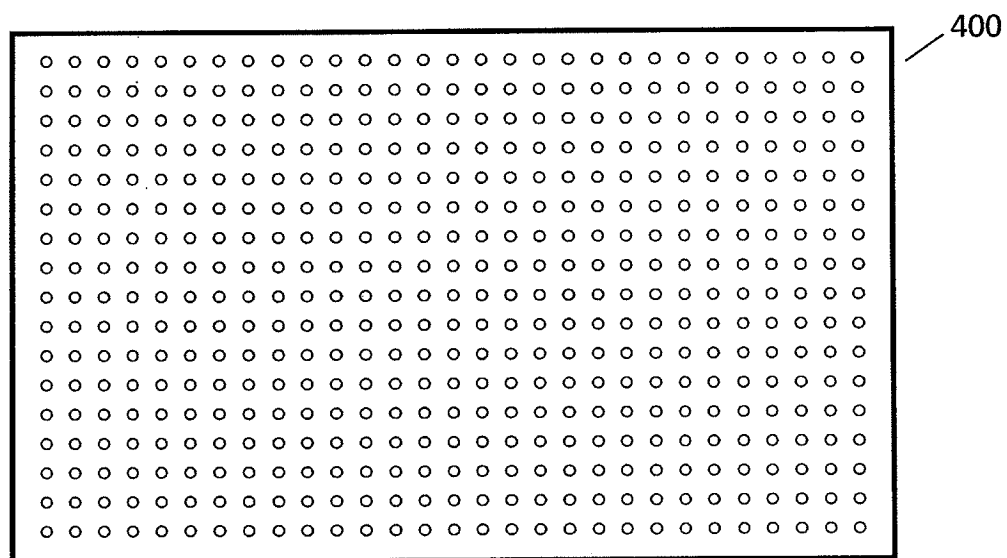
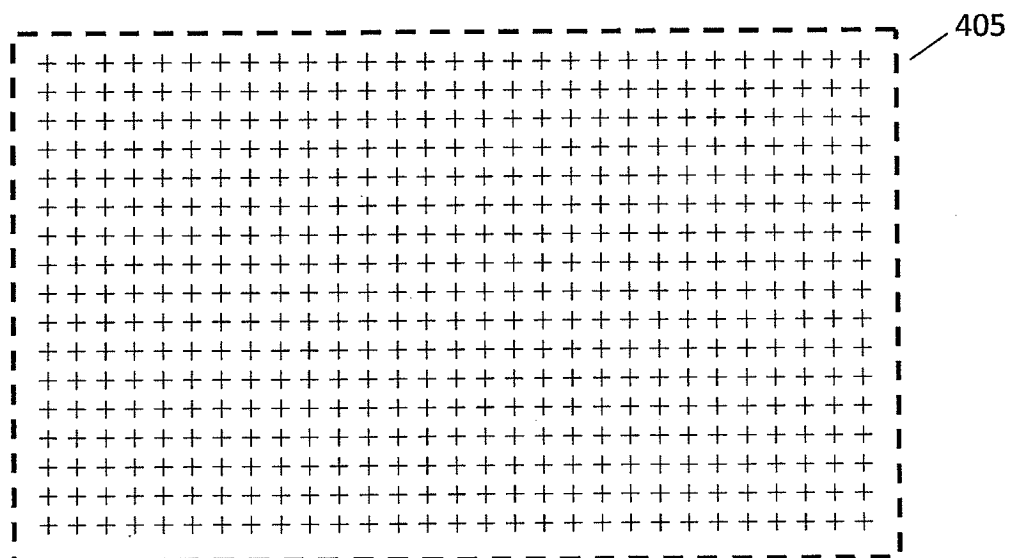


Fig. 6



FIELD



GRID

Fig. 7

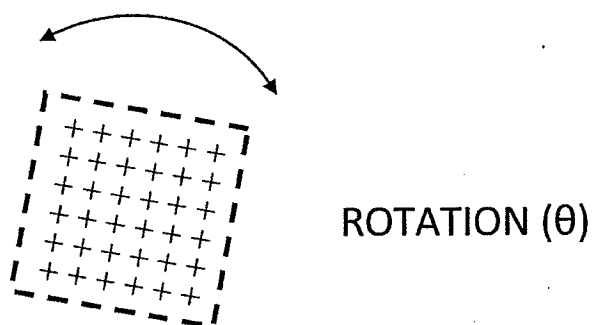


Fig. 8A

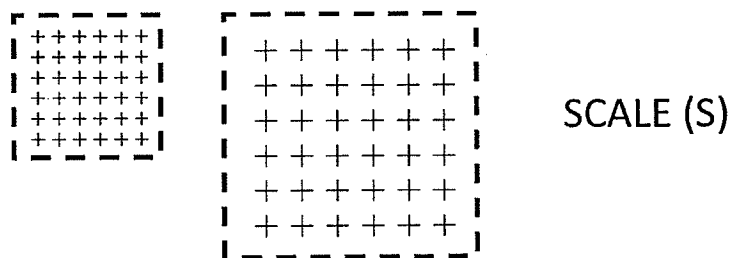


Fig. 8B

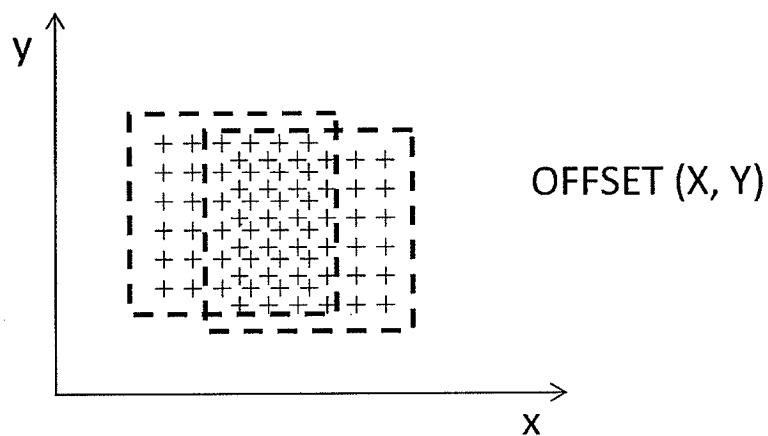


Fig. 8C

9/20

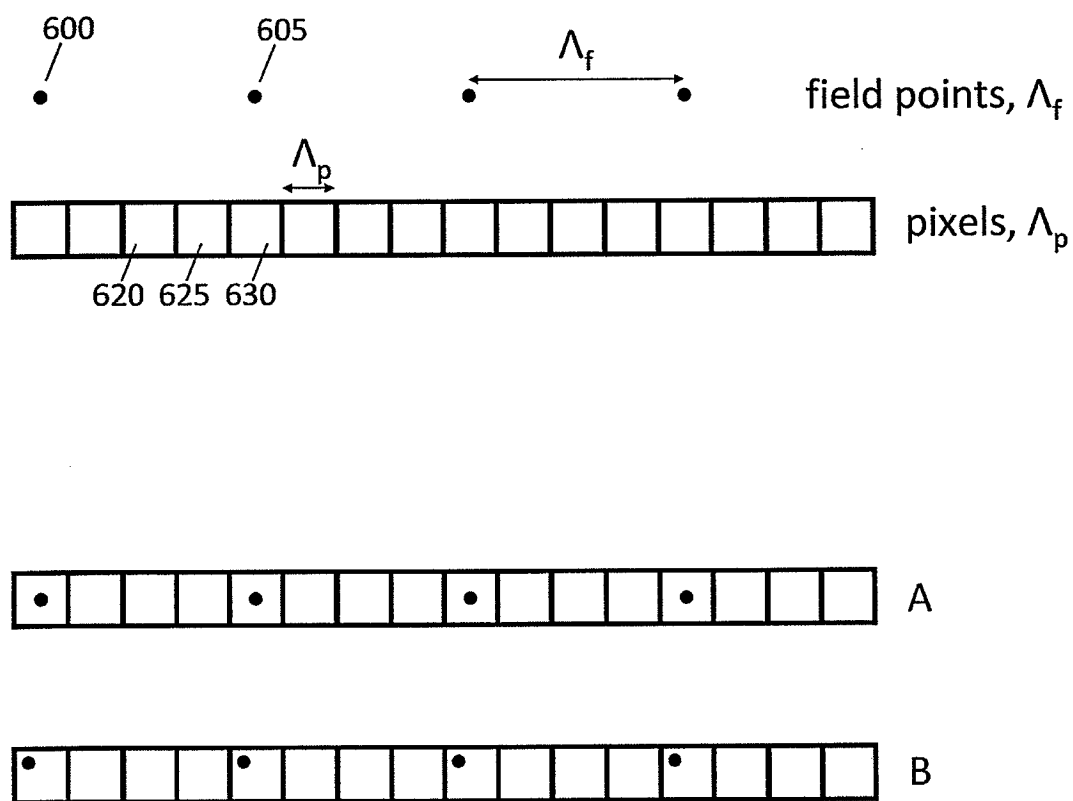


Fig. 9

10/20

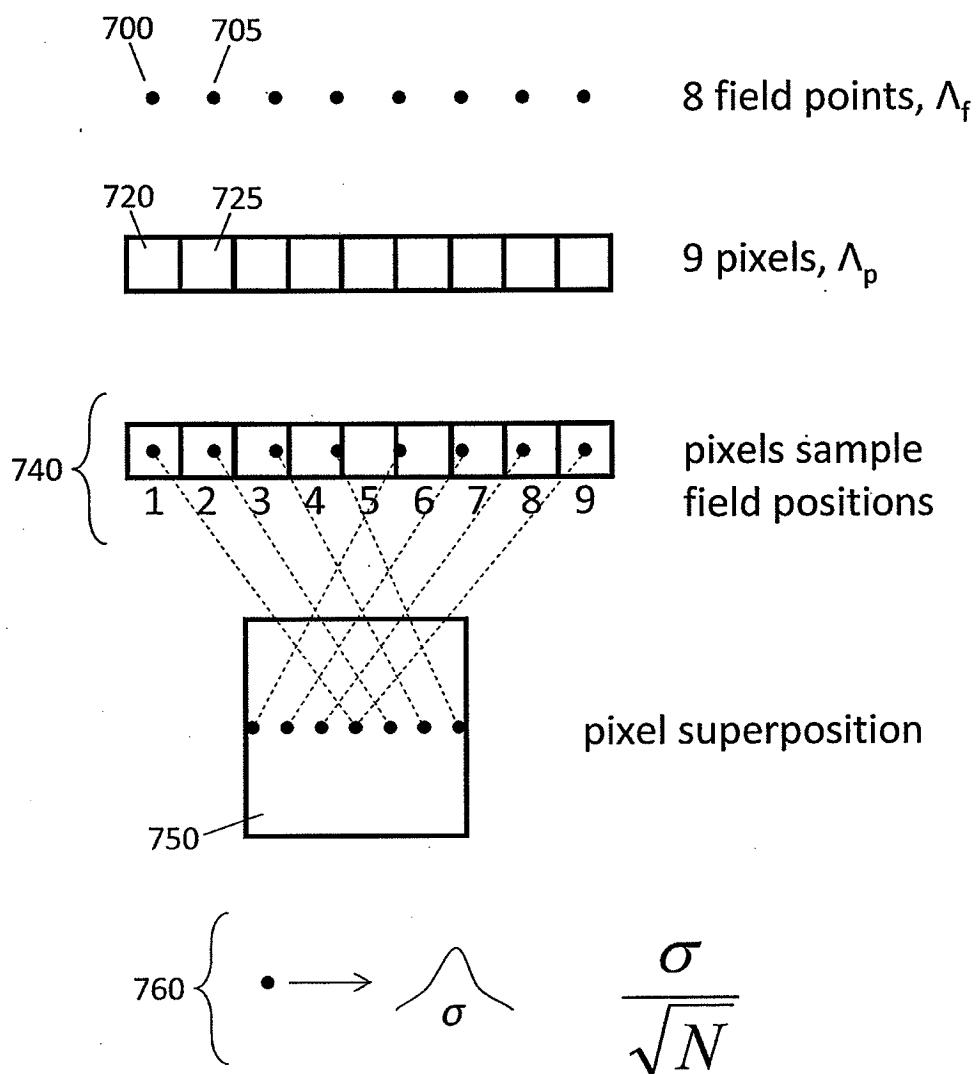


Fig. 10

11/20

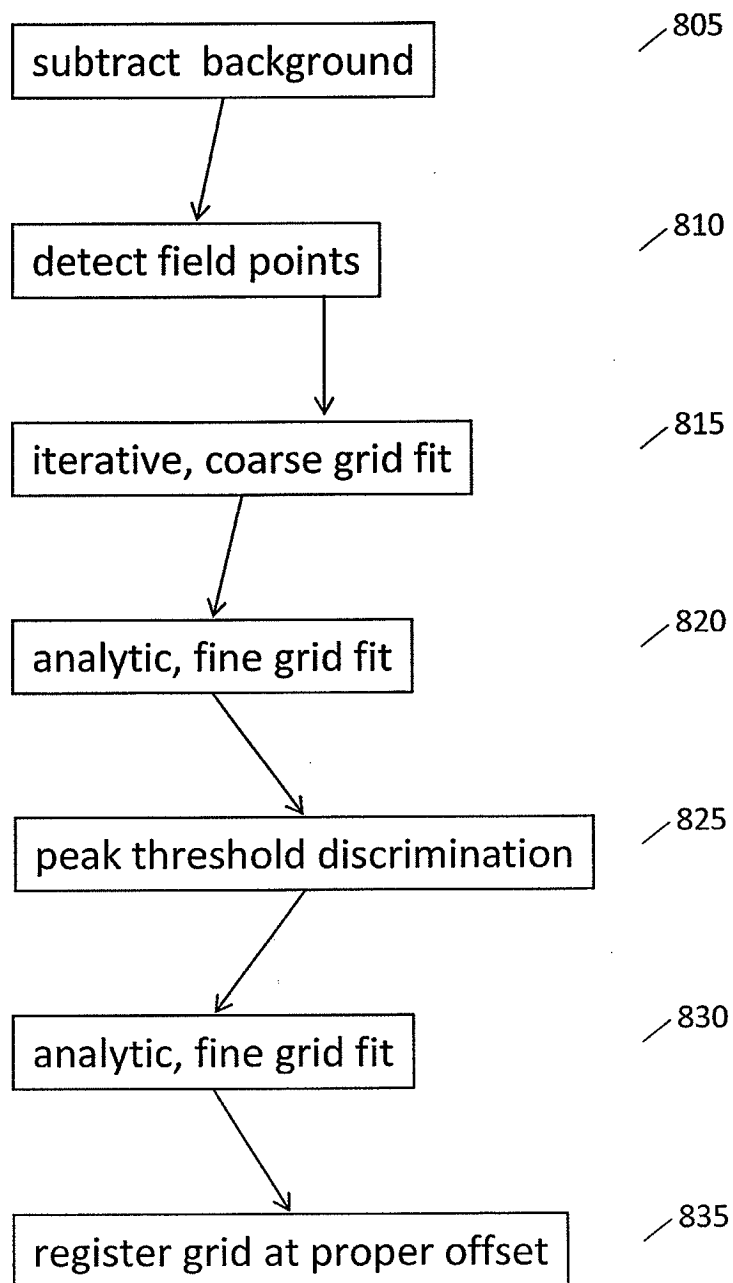


Fig. 11

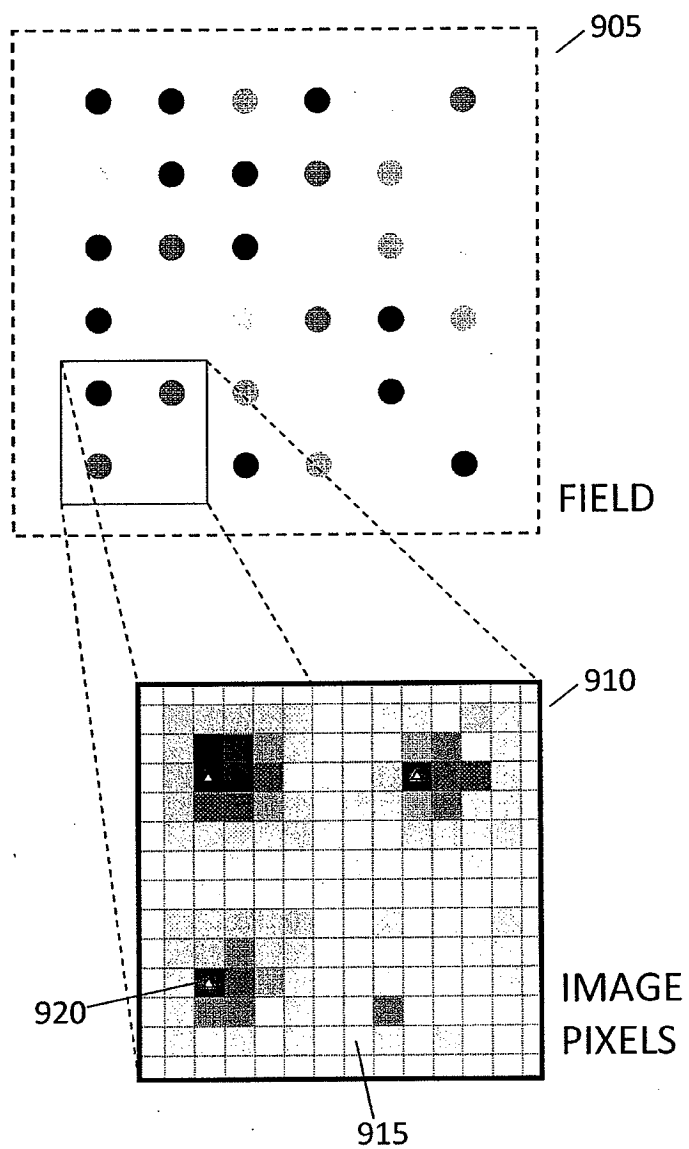


Fig. 12

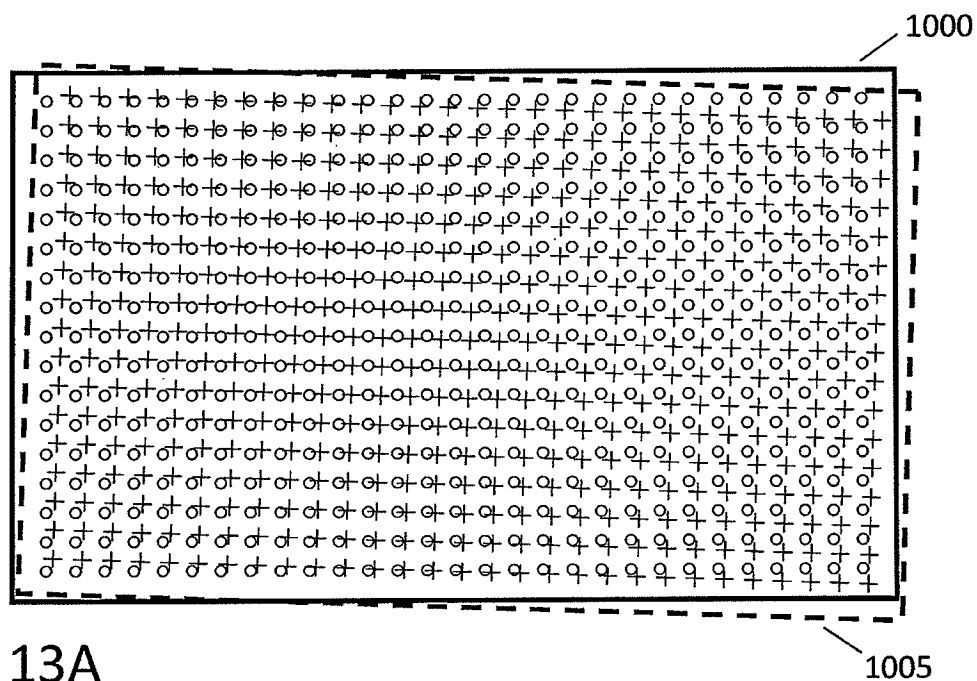


Fig. 13A

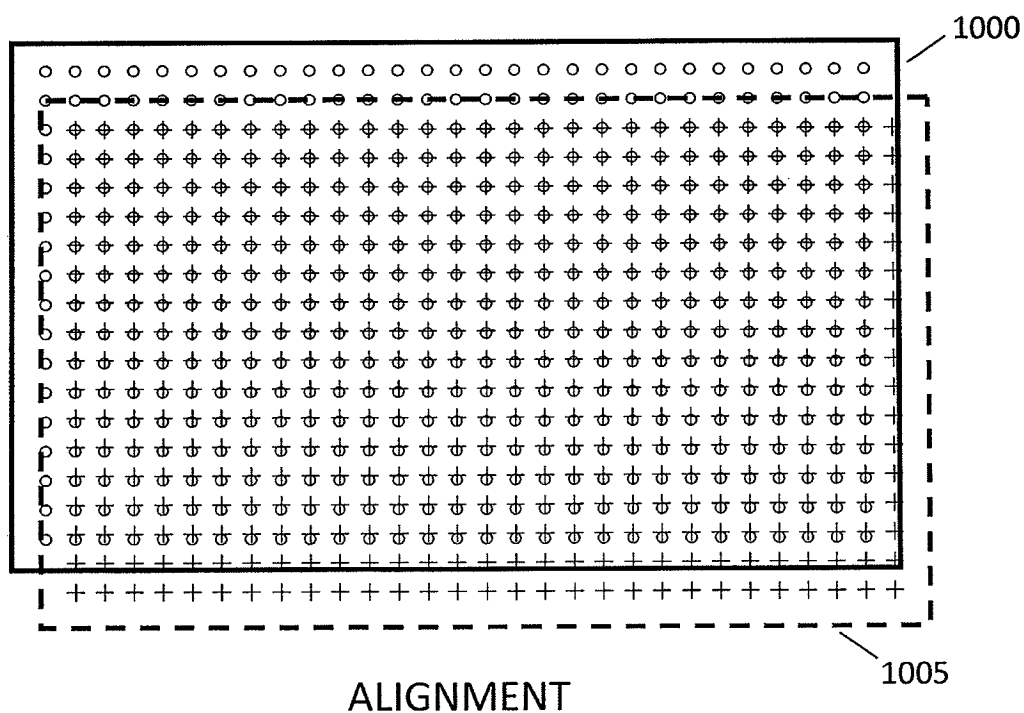


Fig. 13B

ITERATIVE COARSE GRID FIT

```
for ( $\theta = \theta_{\min}$  ;  $\theta \leq \theta_{\max}$  ;  $\theta += \Delta\theta$ ){  
  for ( $S = S_{\min}$  ;  $S \leq S_{\max}$  ;  $S += \Delta S$ ){  
    for ( $X = X_{\min}$  ;  $X \leq X_{\max}$  ;  $X += \Delta X$ ){  
      for ( $Y = Y_{\min}$  ;  $Y \leq Y_{\max}$  ;  $Y += \Delta Y$ ){  
  
        calculate  $F(\theta, S, X, Y)$   
  
      }  
    }  
  }  
}  
  
find minimum  $F$ 
```

1100

Fig. 14

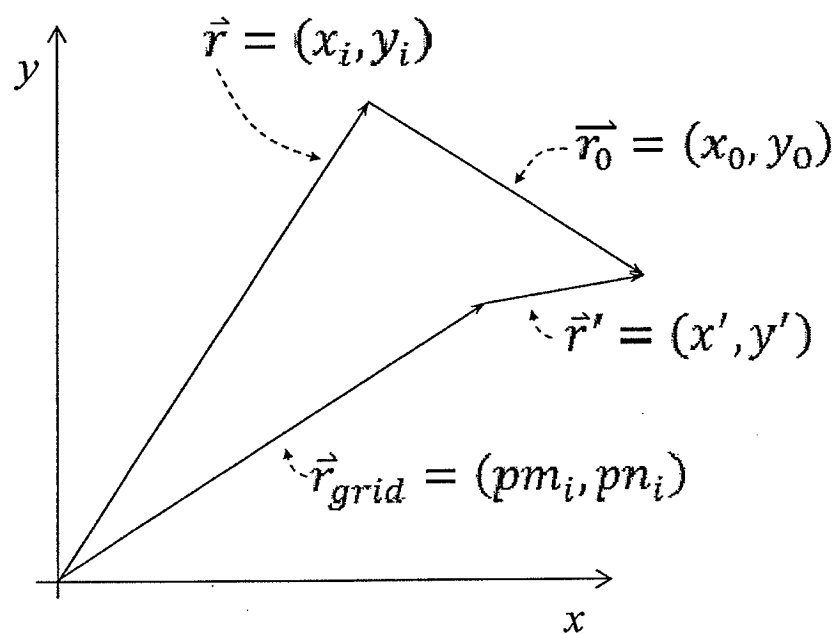


Fig. 15

16/20

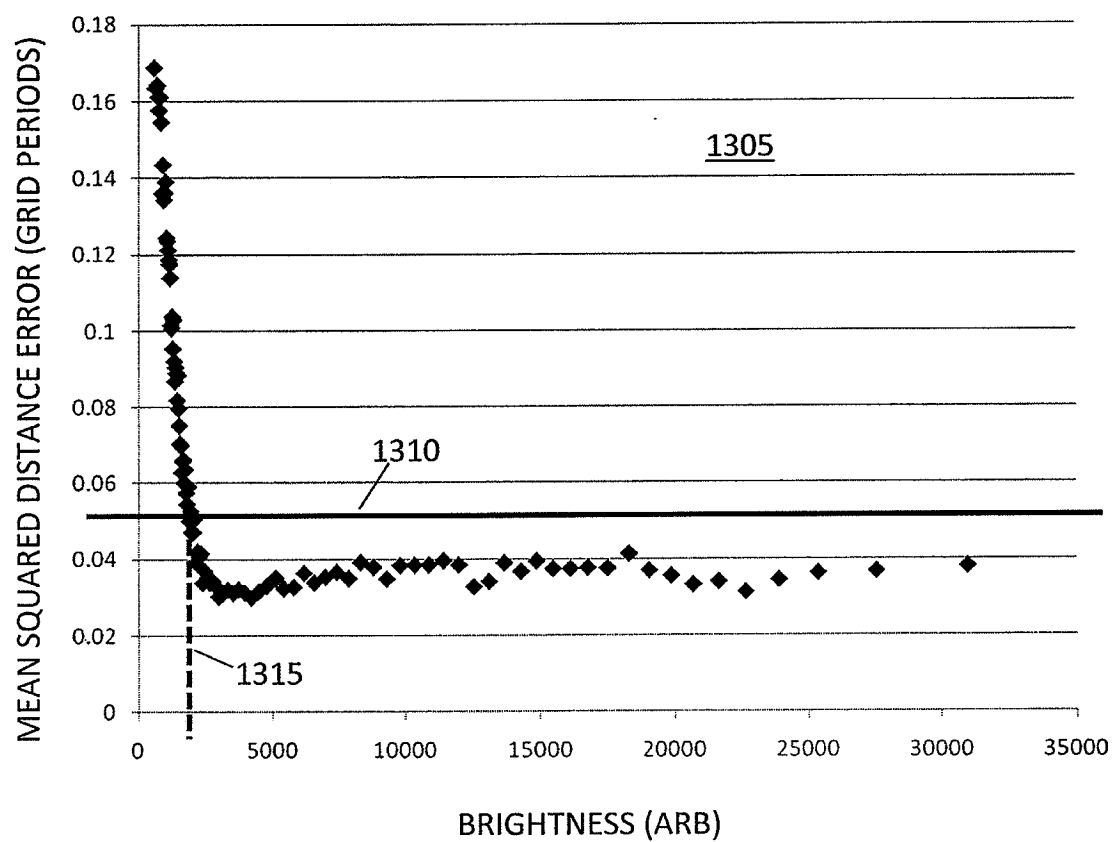


Fig. 16

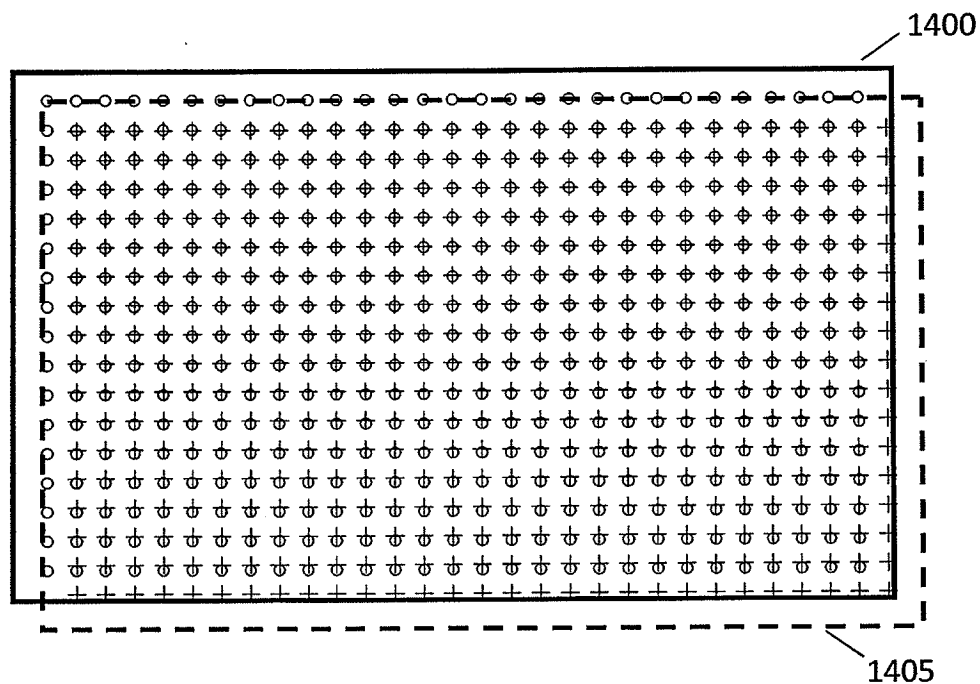
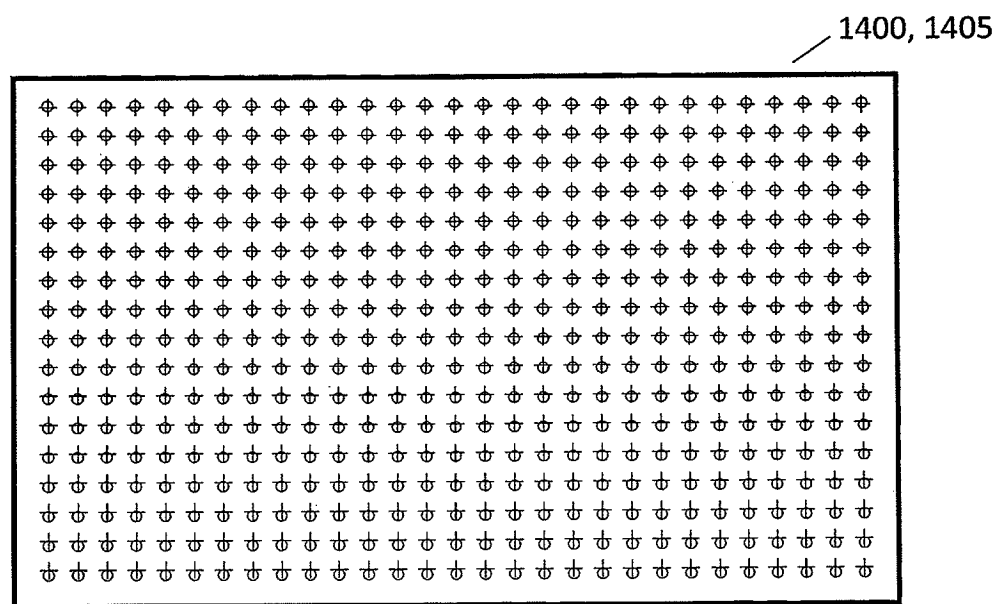


Fig. 17A



REGISTRATION

Fig. 17B

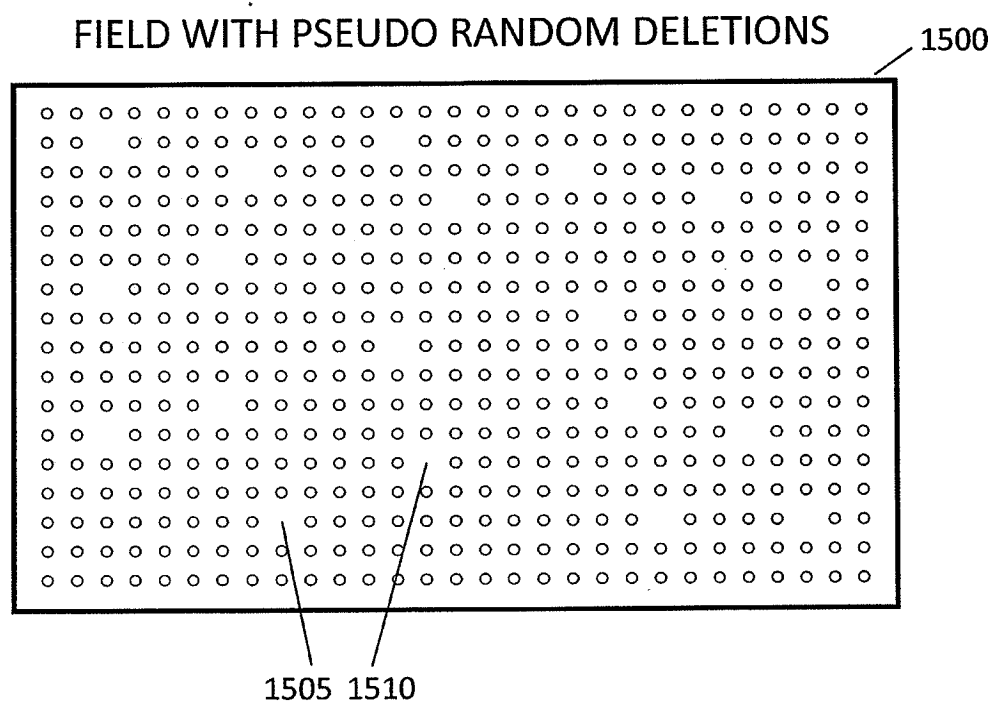


Fig. 18

19/20

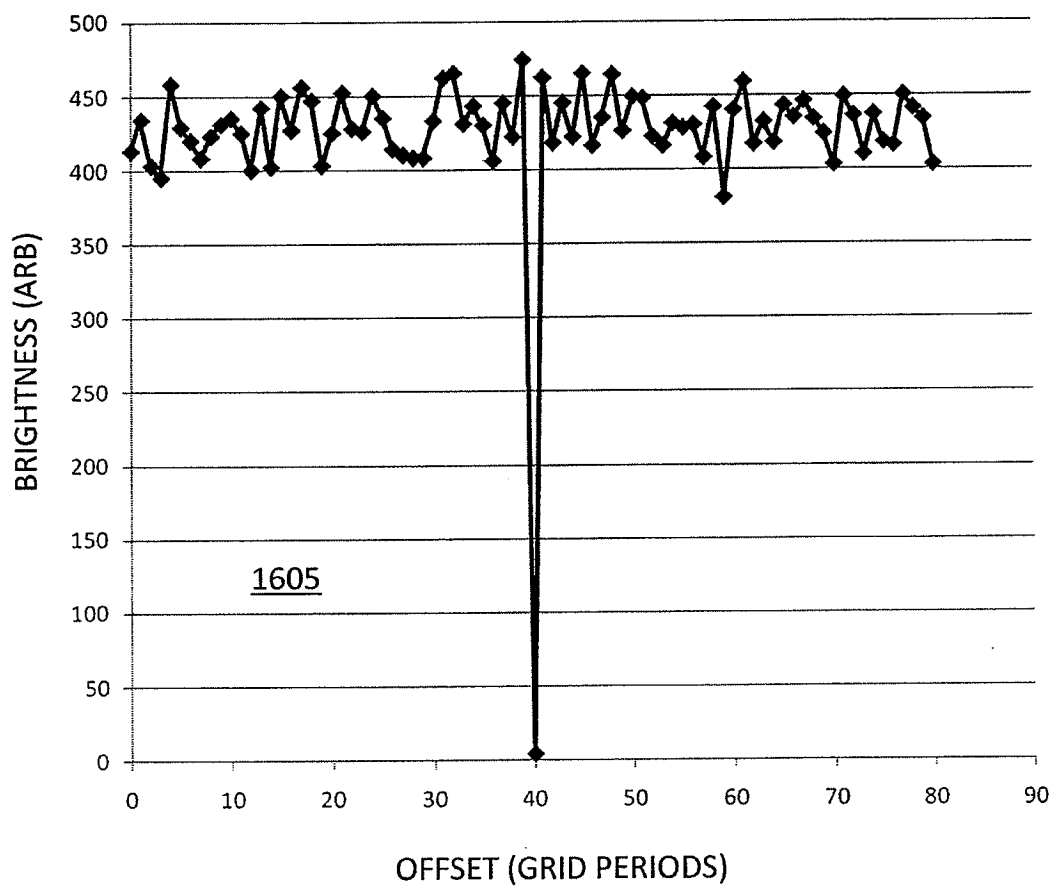


Fig. 19

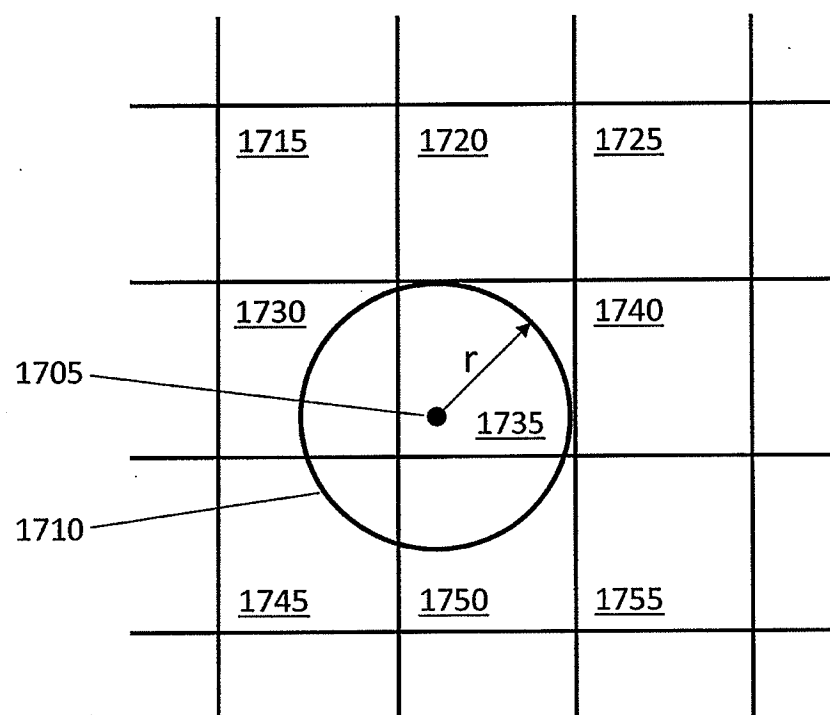


Fig. 20