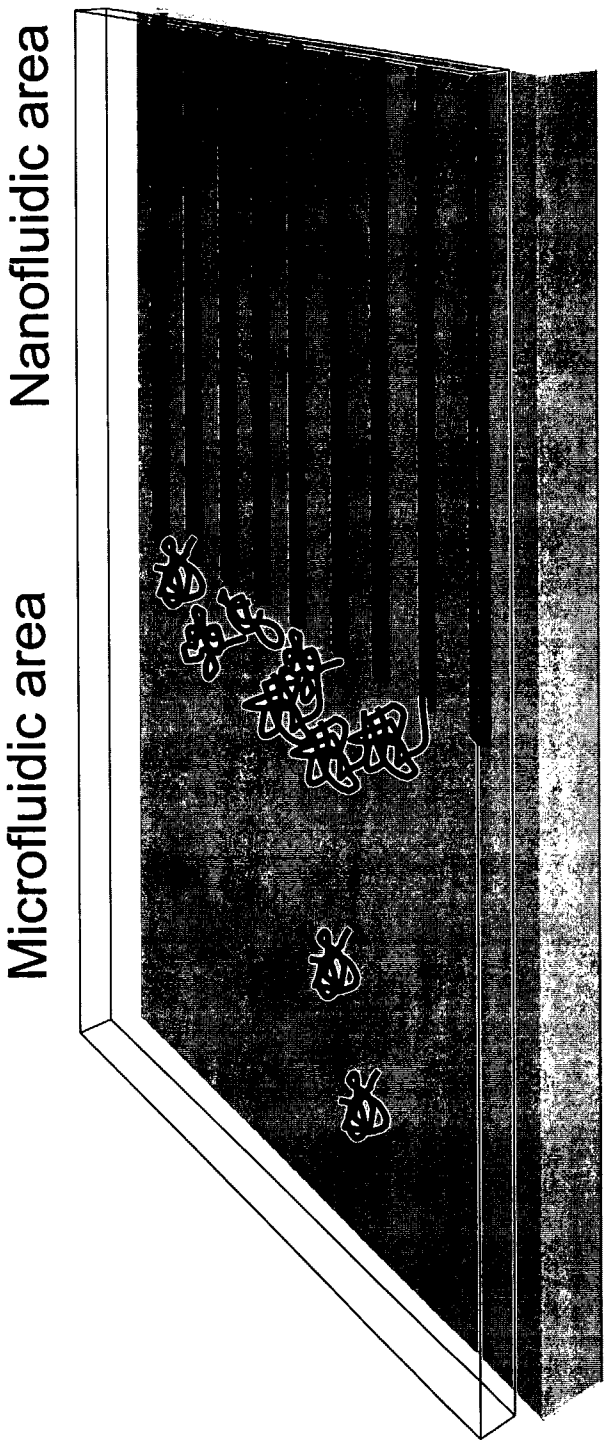


Fig. 1A

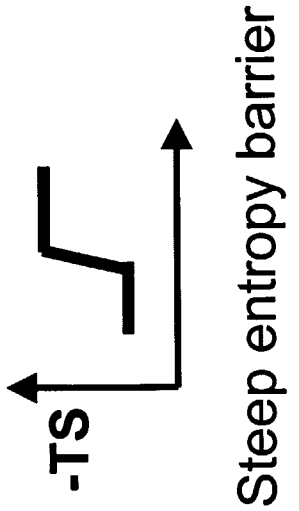


Fig. 1B

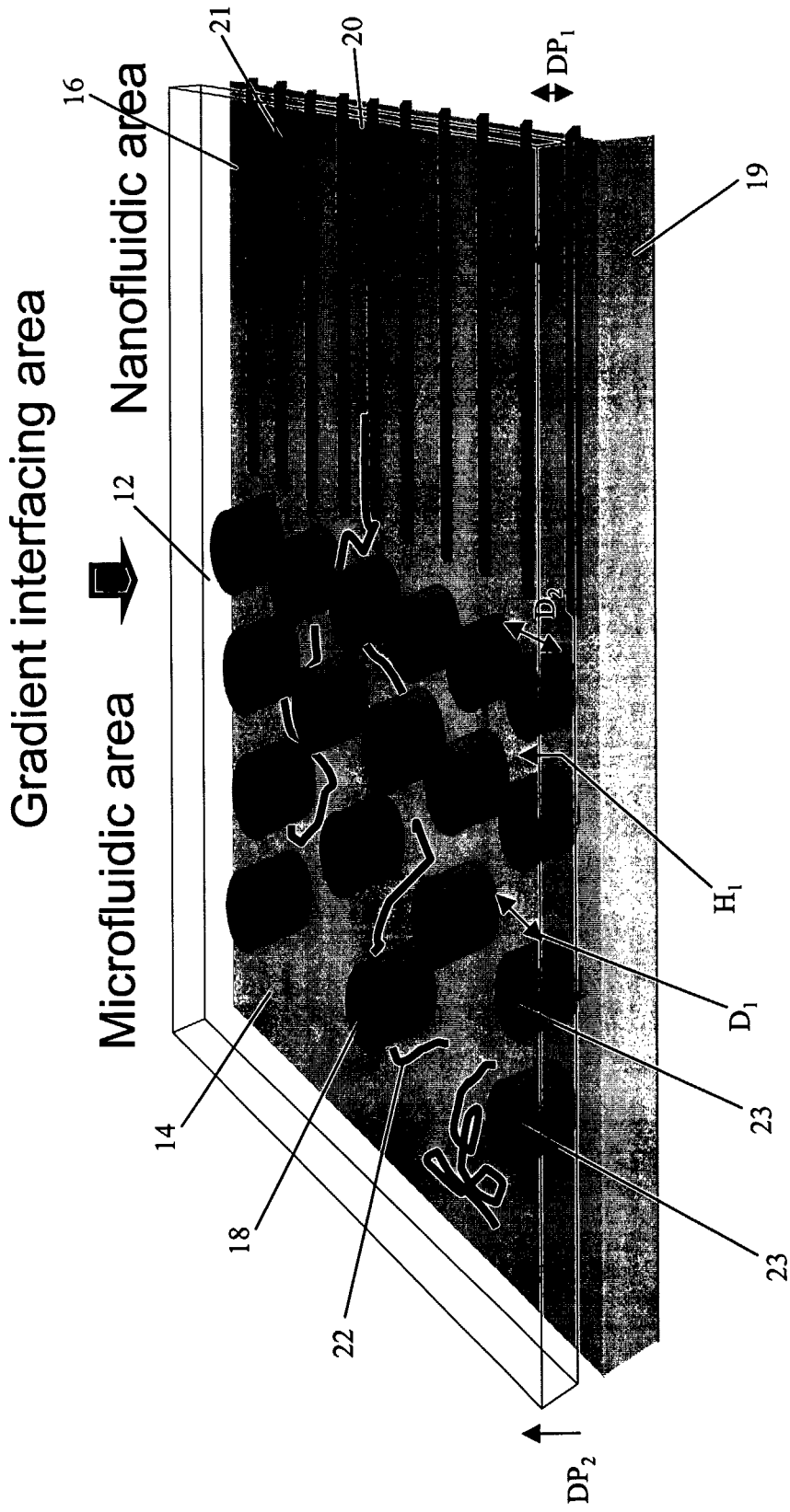

Gradient interfacing area
Microfluidic area
Nanofluidic area
12
16
21
20
DP_1
19
D_2
H_1
D_1
23
23
14
18
22
DP_2

Fig. 2

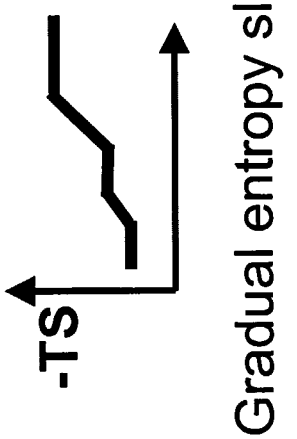


Fig. 3

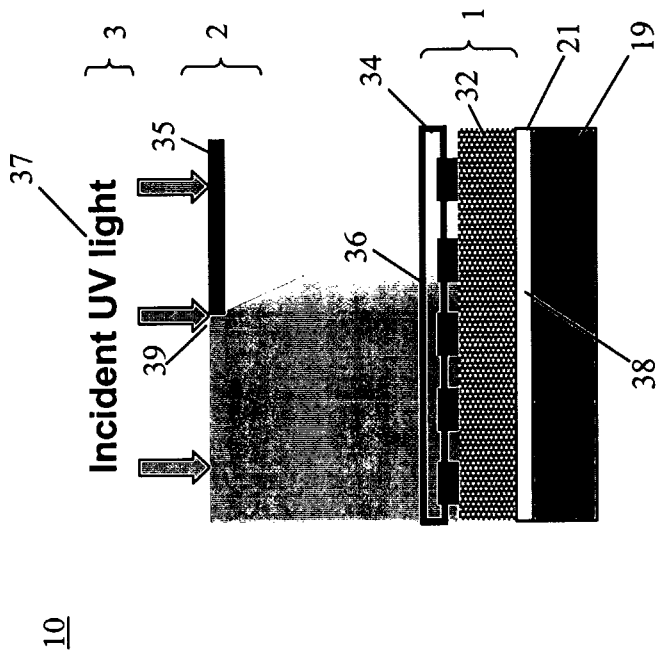


Fig. 4A

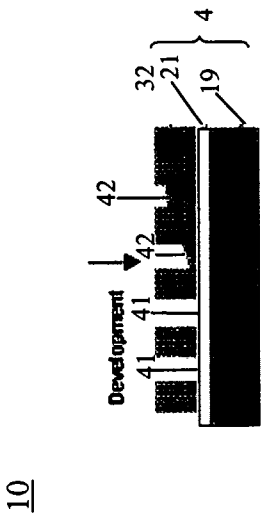


Fig. 4B

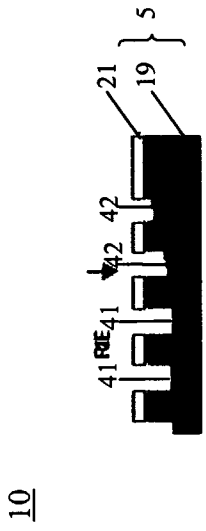


Fig. 4C

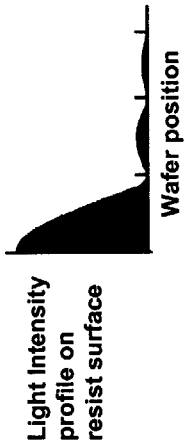


Fig. 4D

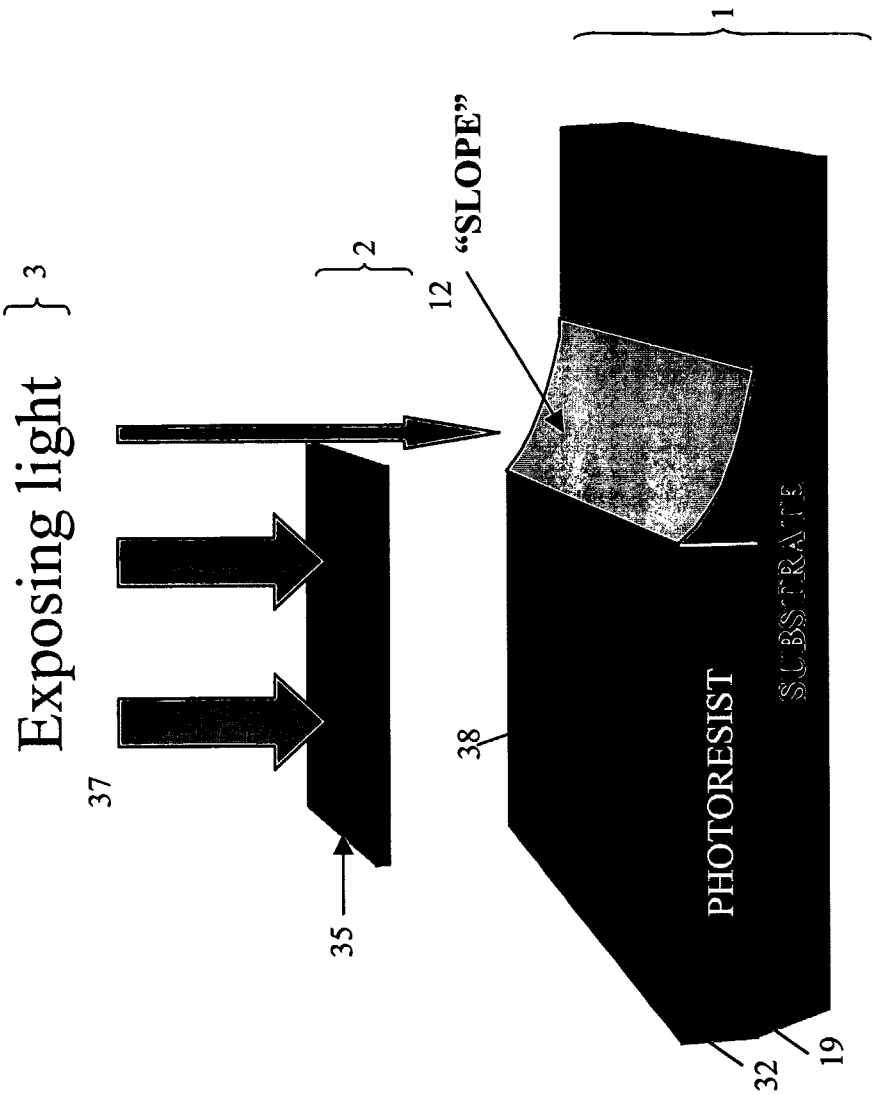

Exposing light
3
37
35
2
12
"SLOPE"
1
38
PHOTORESIST
SUBSTRATE
32
19

Fig. 5A

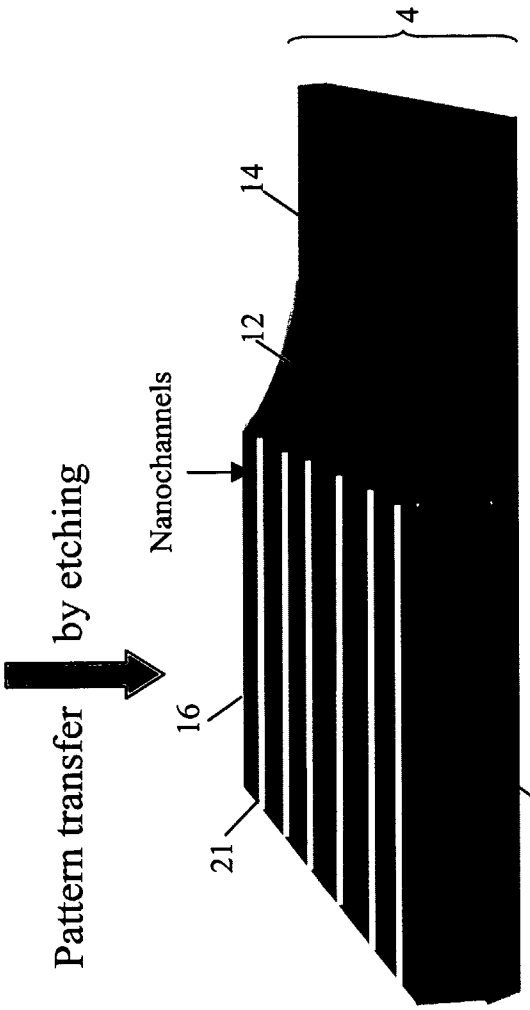


Fig. 5B



Fig. 6A

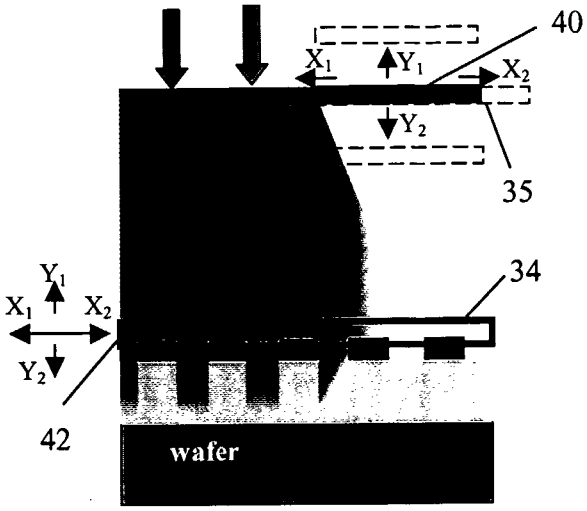


Fig. 6B

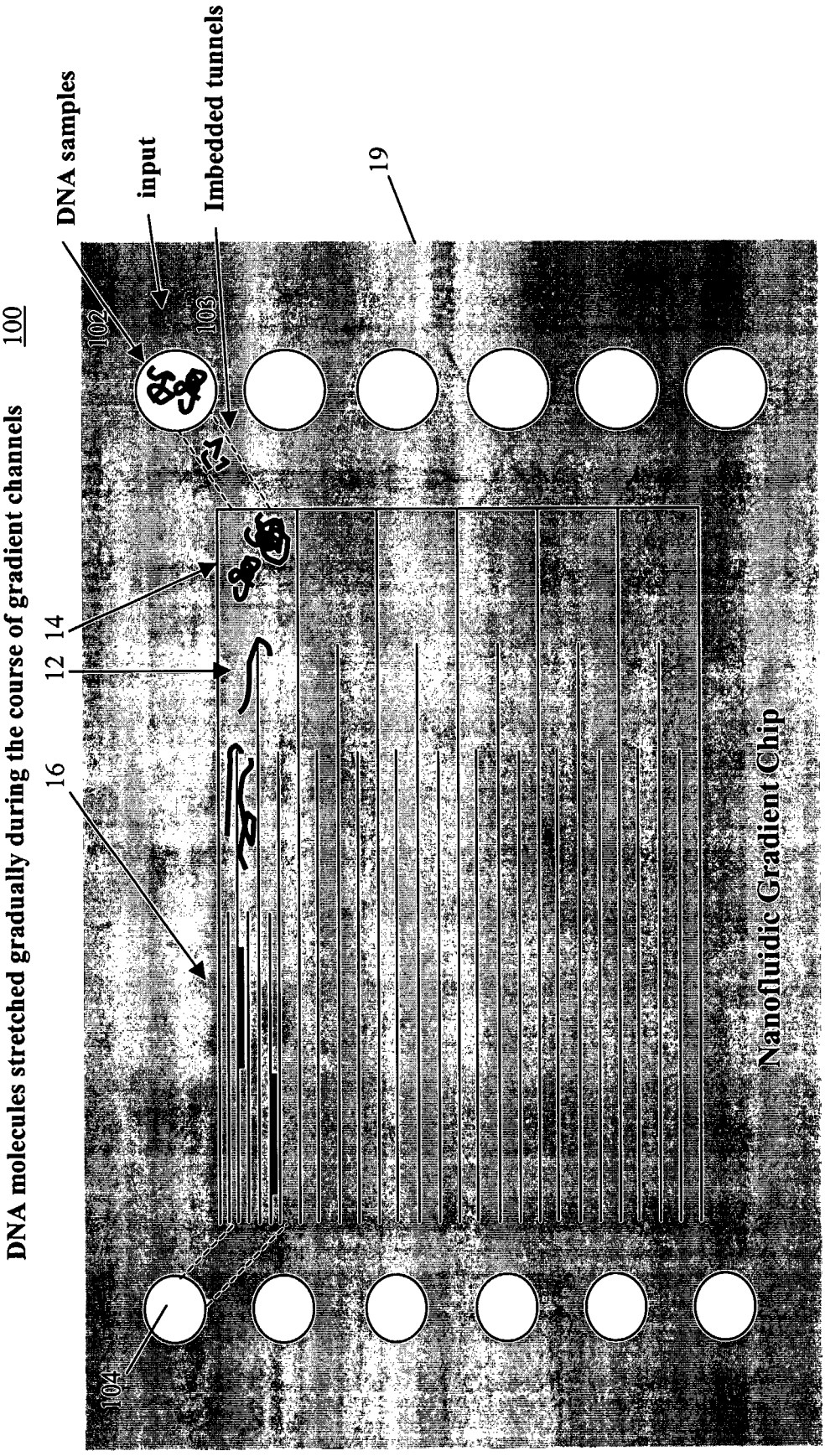

DNA molecules stretched gradually during the course of gradient channels
100
DNA samples
input
Imbedded tunnels
19
102
103
12
14
16
104
Nanofluidic Gradient Chip

Fig. 7

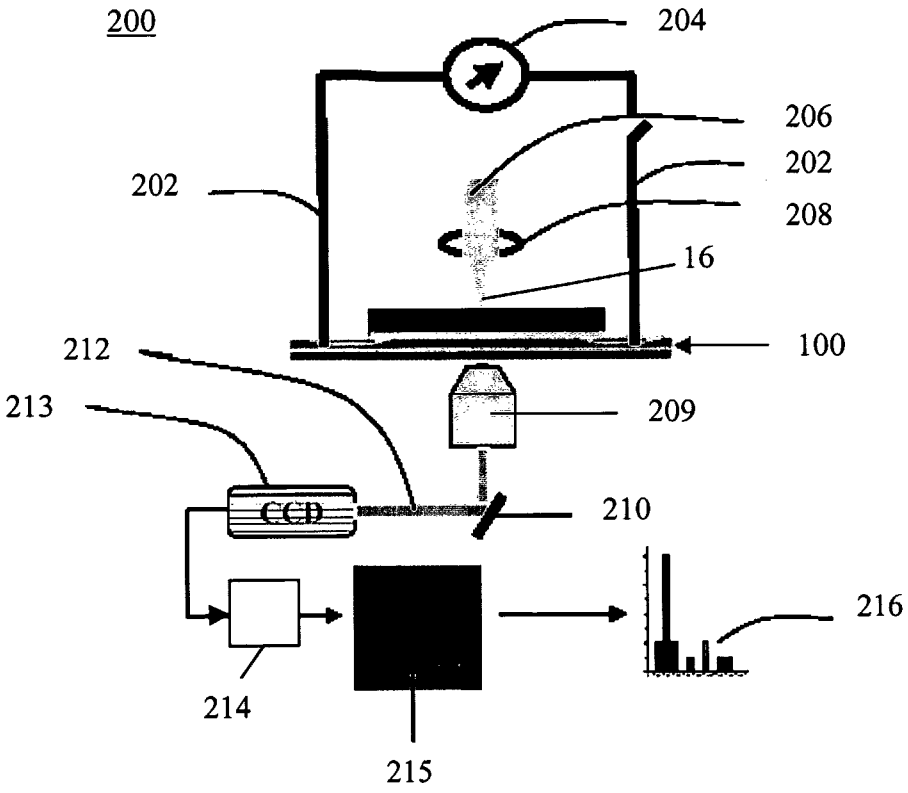


Fig. 8

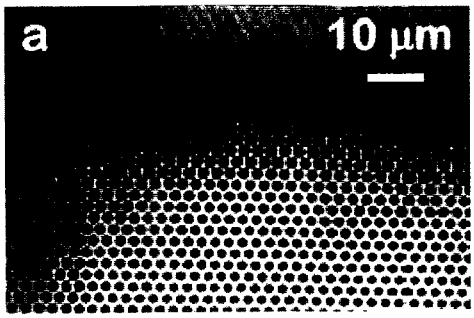


Fig. 9A

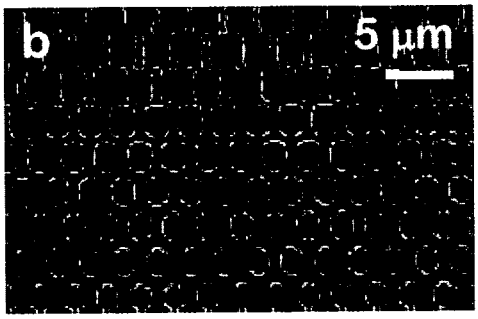


Fig. 9B



Fig. 10A

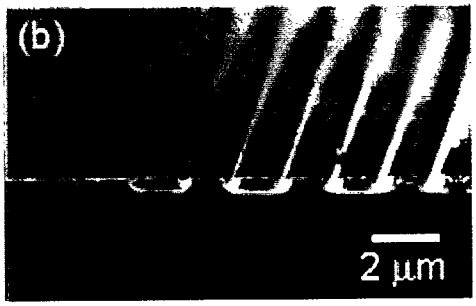


Fig. 10B

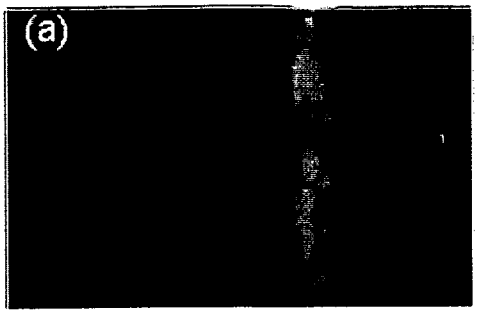


Fig. 11A



Fig. 11B