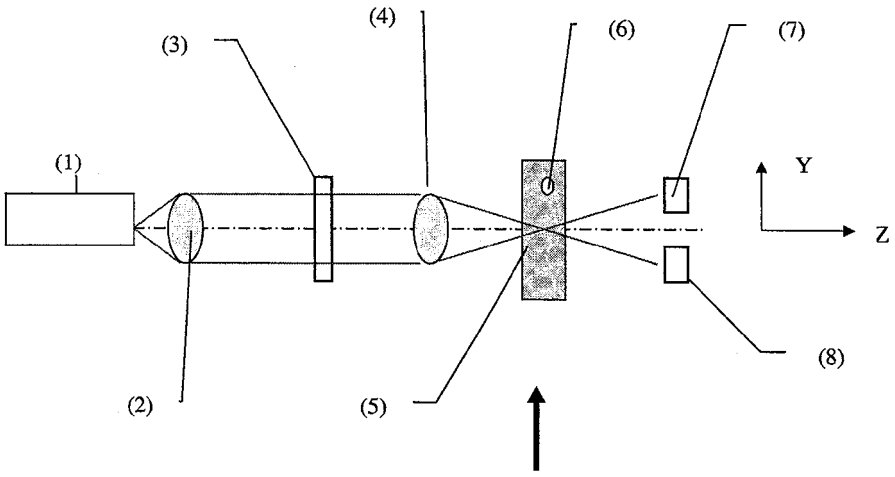



Fig. 1

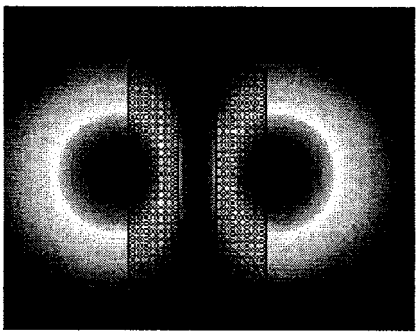


Fig. 2

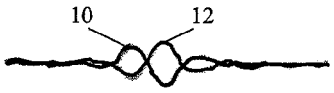



Fig. 3A




Fig. 3B

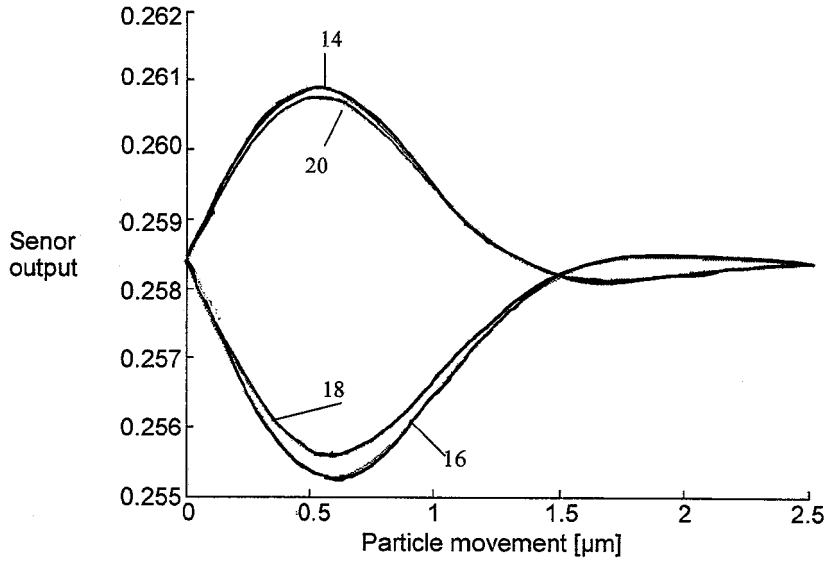



Fig. 4

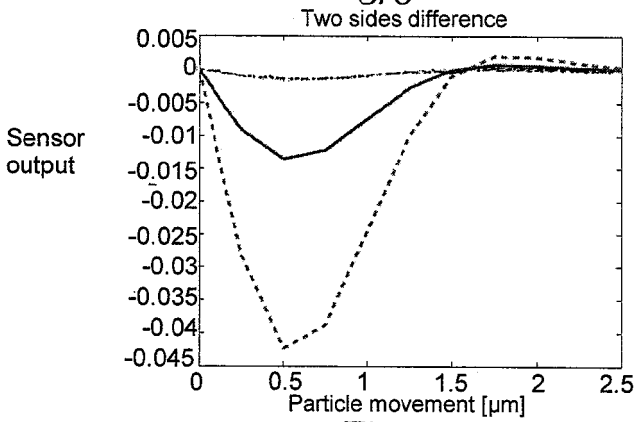

Two sides difference
Sensor output
0.005
0
-0.005
-0.01
-0.015
-0.02
-0.025
-0.03
-0.035
-0.04
-0.045
0
0.5
1
1.5
2
2.5
Particle movement [μm]

Fig. 5

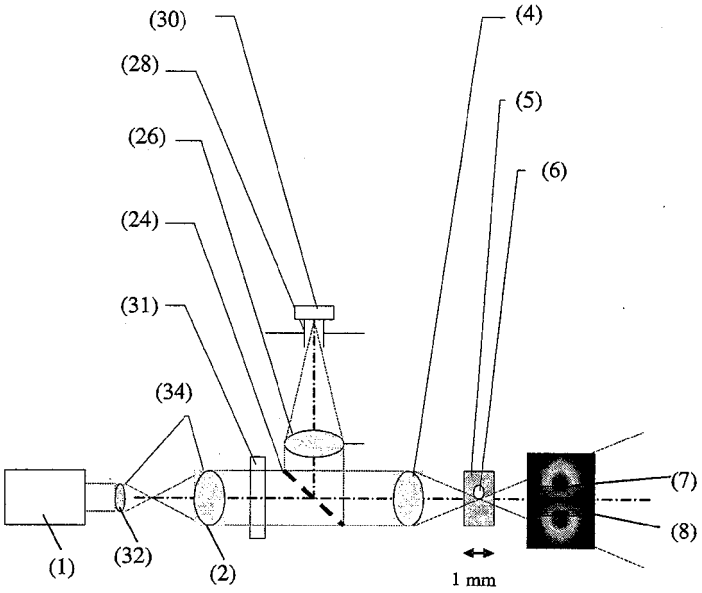

(30)
(28)
(26)
(24)
(31)
(34)
(4)
(5)
(6)
(7)
(8)
(1)
(32)
(2)
1 mm

Fig. 6

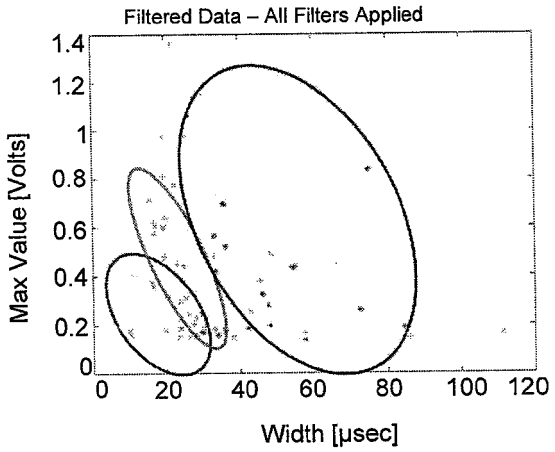

Filtered Data – All Filters Applied
Max Value [Volts]
Width [µsec]
1.4
1.2
1
0.8
0.6
0.4
0.2
0
0
20
40
60
80
100
120

Fig. 7

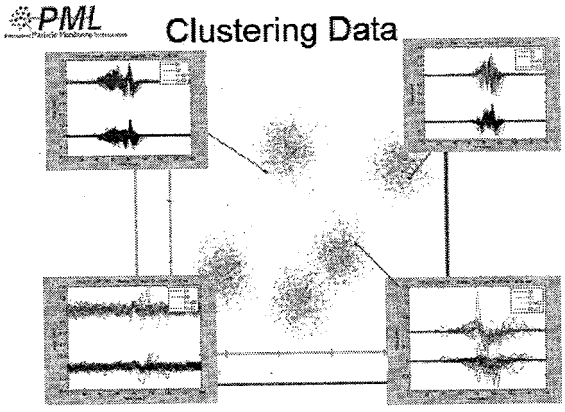

PML
Clustering Data

Fig. 8

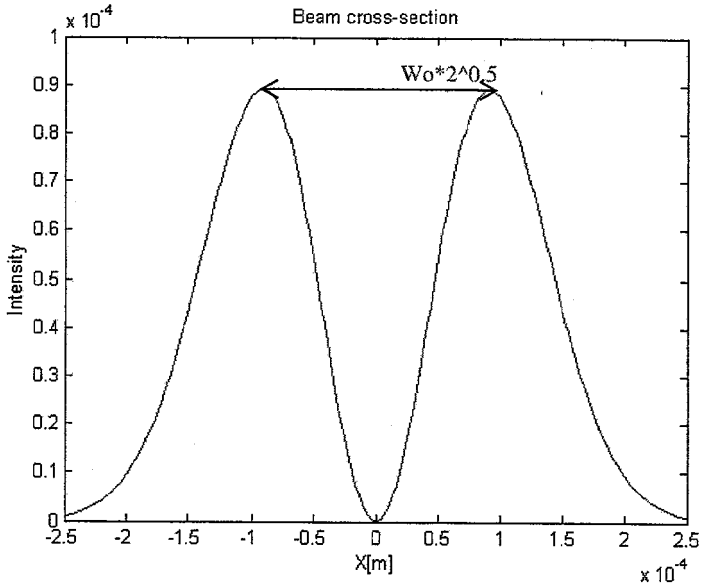



Fig. 9

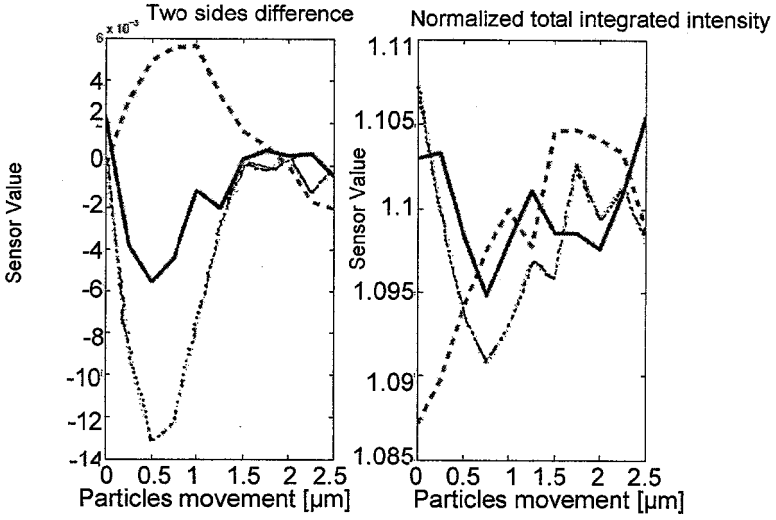



Fig. 10A Fig. 10B

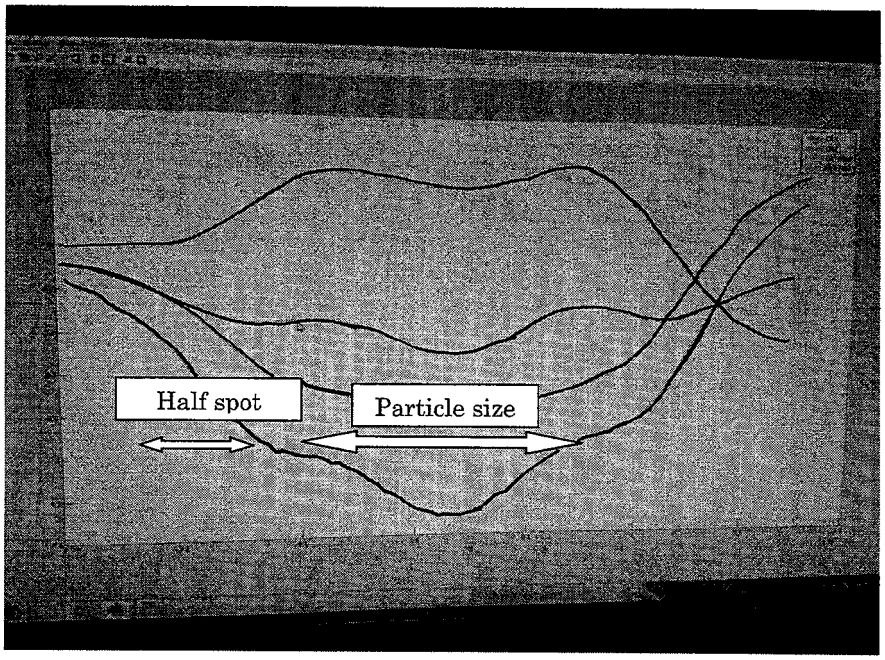



Fig. 11

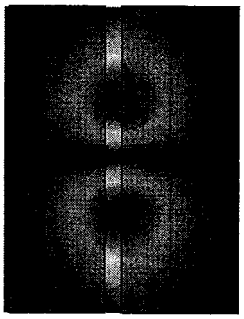


Fig. 12