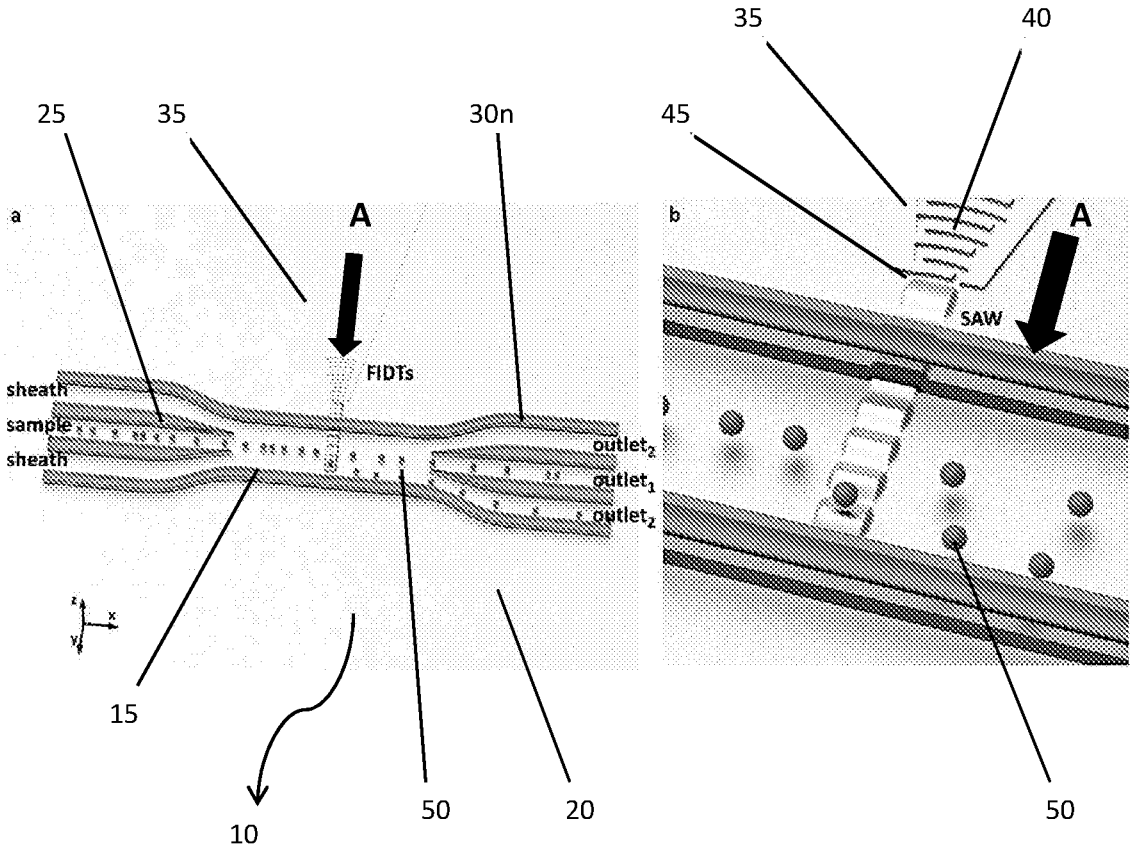

25
35
30n
45
35
40
a
A
FIDTs
sheath
sample
sheath
outlet2
outlet1
outlet2
b
A
SAW
15
10
50
20
50

Figure 1

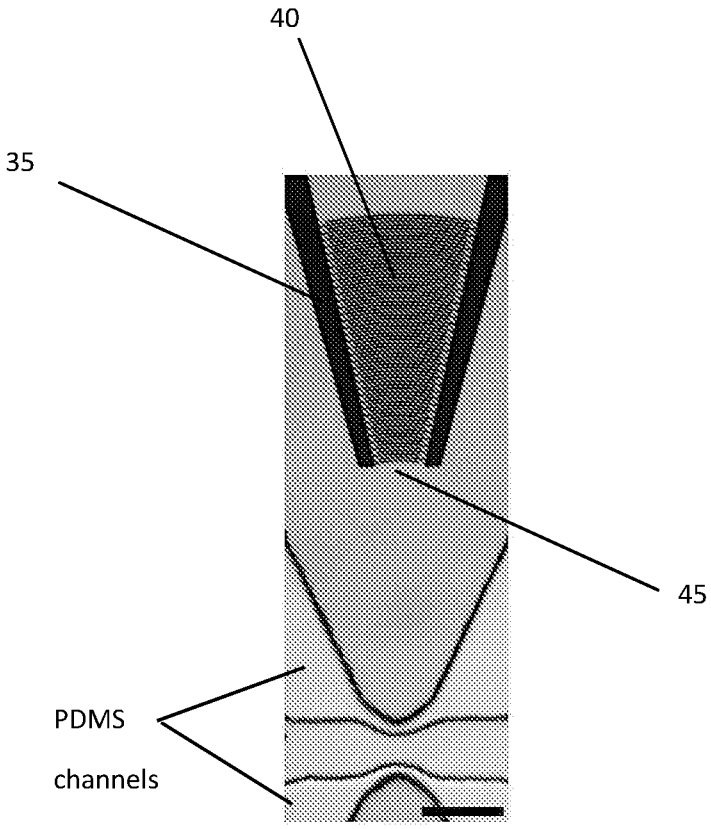


Figure 2

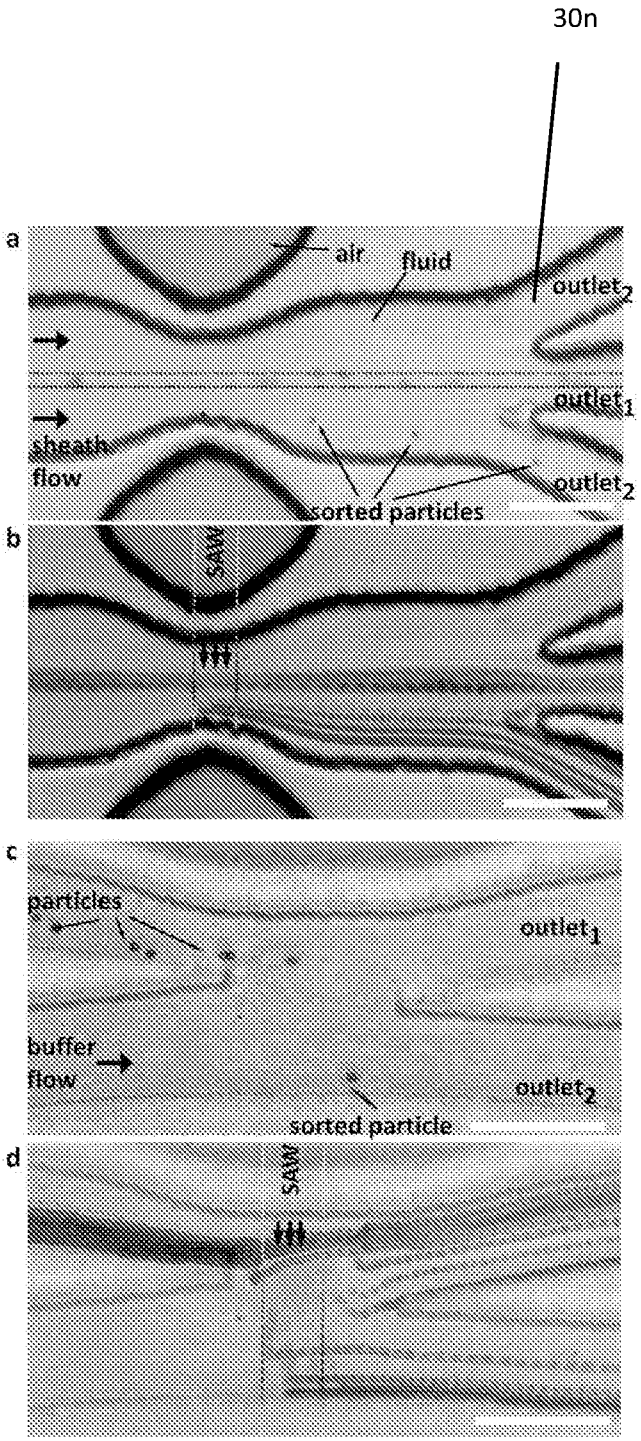

30n
a
air
fluid
outlet2
outlet1
sheath flow
outlet2
sorted particles
b
SAW
c
particles
outlet1
buffer flow
outlet2
sorted particle
d
SAW

Figure 3

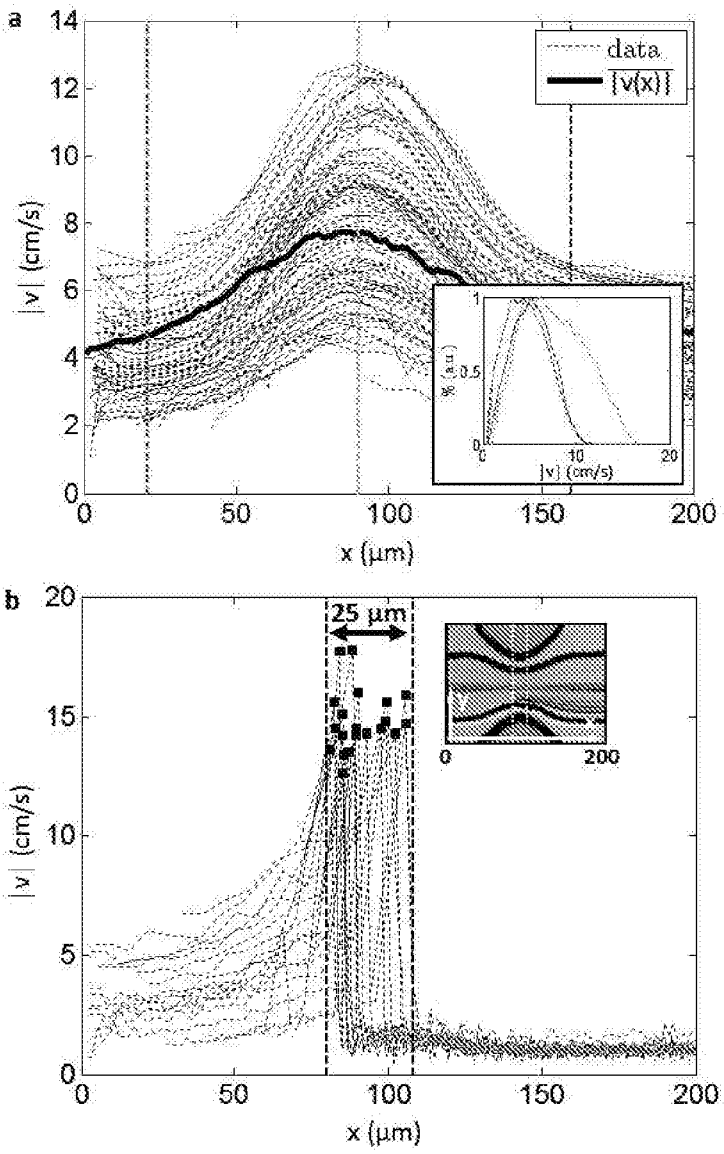


Figure 4

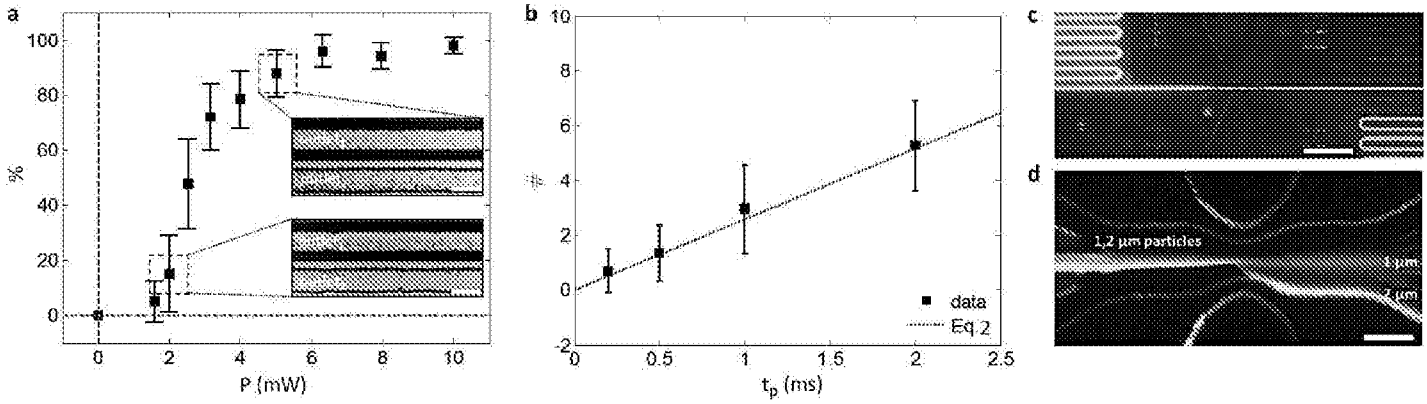

a
100
80
60
40
20
0
%
0
2
4
6
8
10
P (mW)
b
10
8
6
4
2
0
-2
#
0
0.5
1
1.5
2
2.5
t_p (ms)
data
Eq 2
c
d
1,2 µm particles
1 µm
2 µm

Figure 5

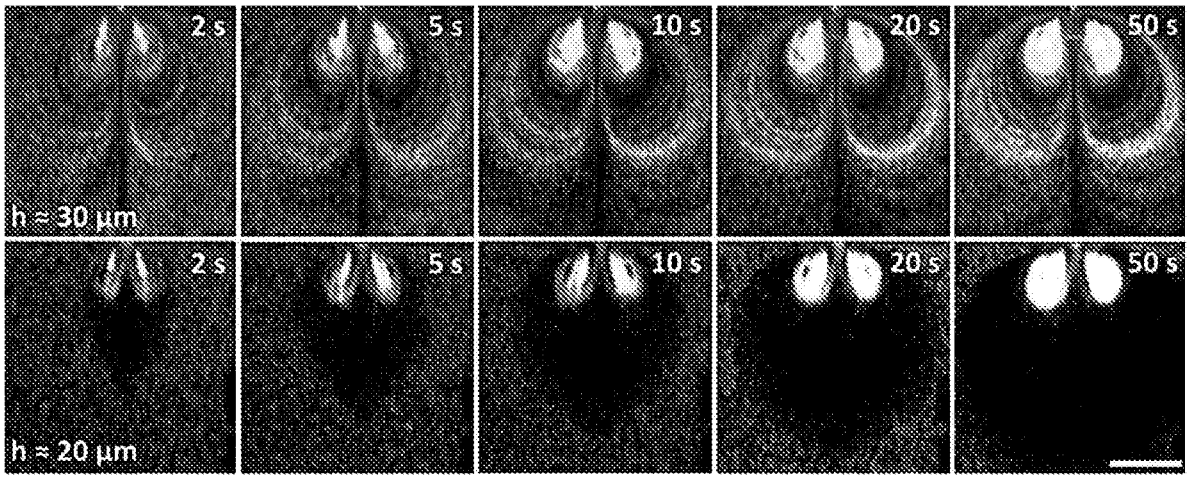


Figure 6

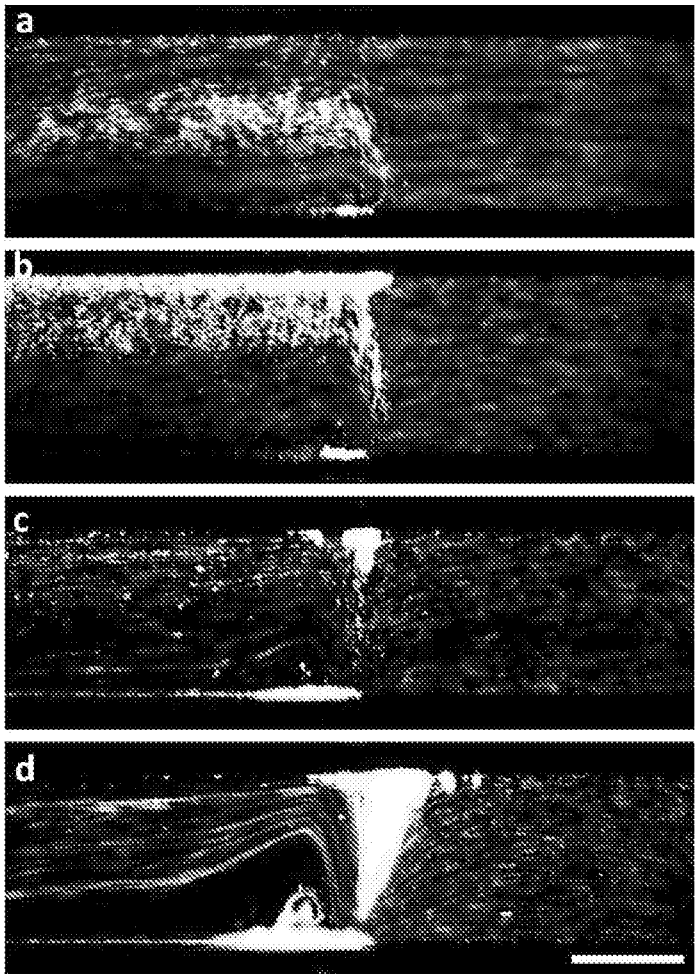


Figure 7

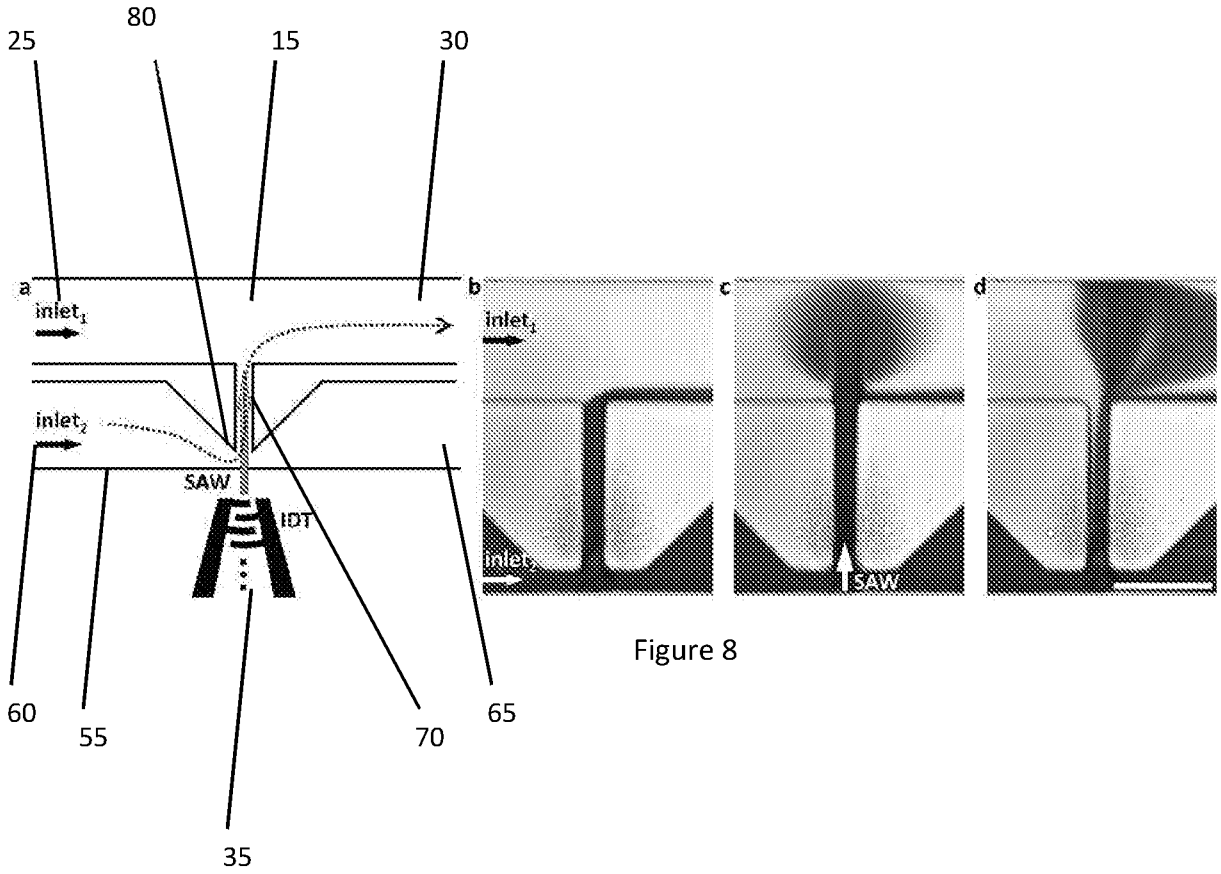

25
80
15
30
a
inlet1
inlet2
SAW
IDT
60
55
70
65
35
b
inlet1
inlet2
c
SAW
d

Figure 8

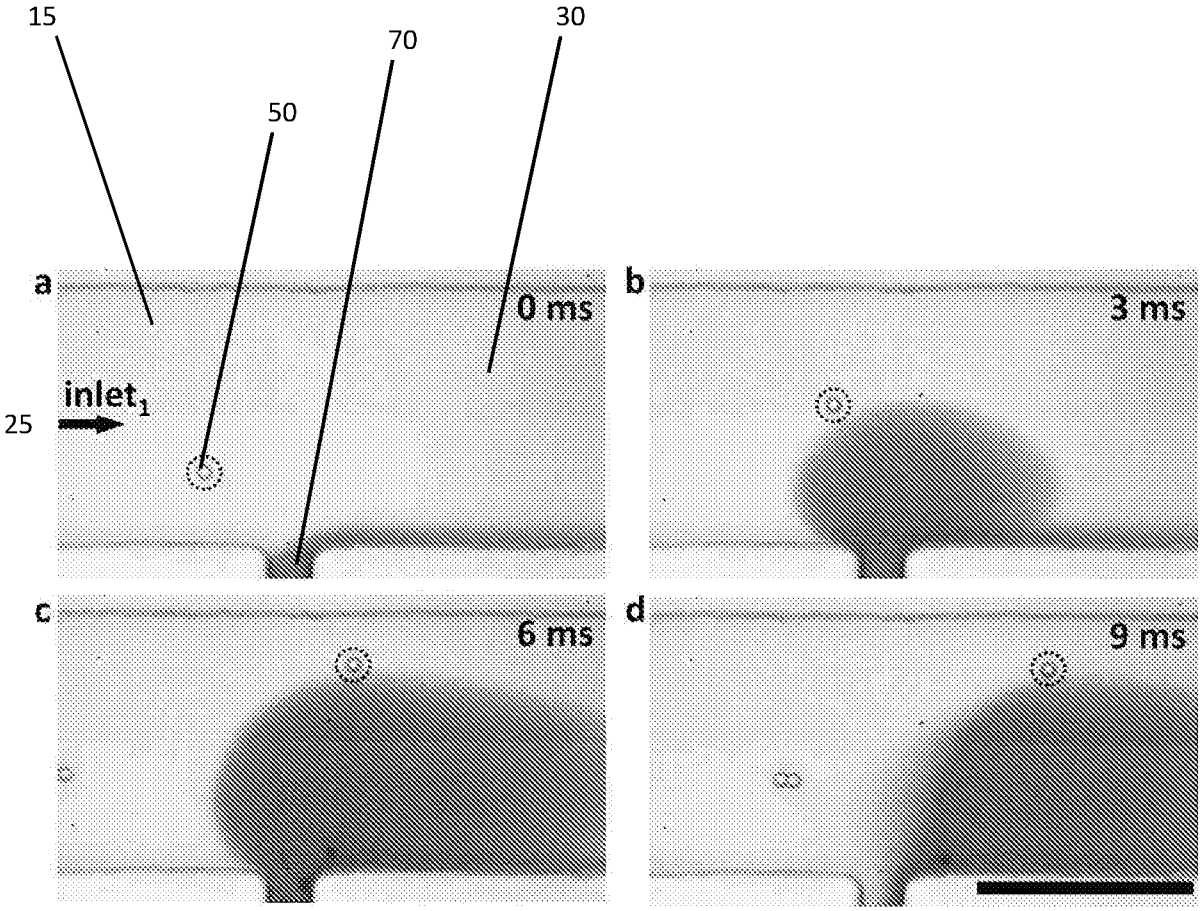


Figure 9