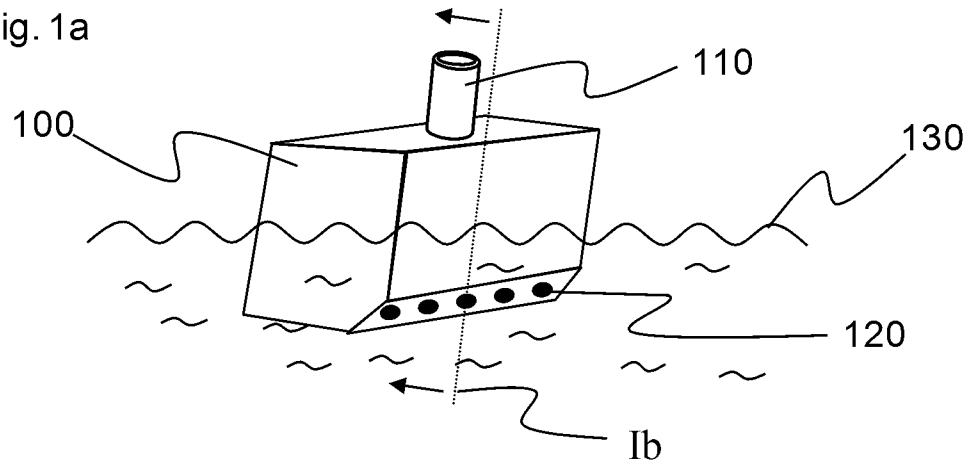
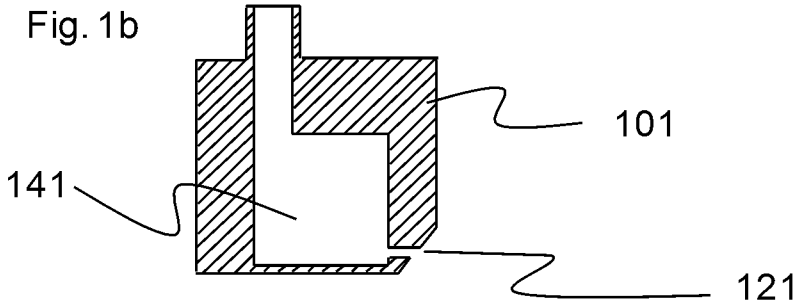
[Fig.]

Fig. 1a



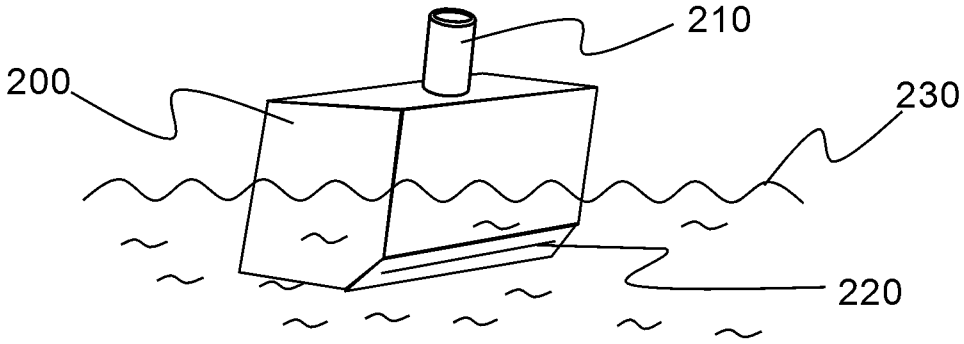
[Fig.]

Fig. 1b



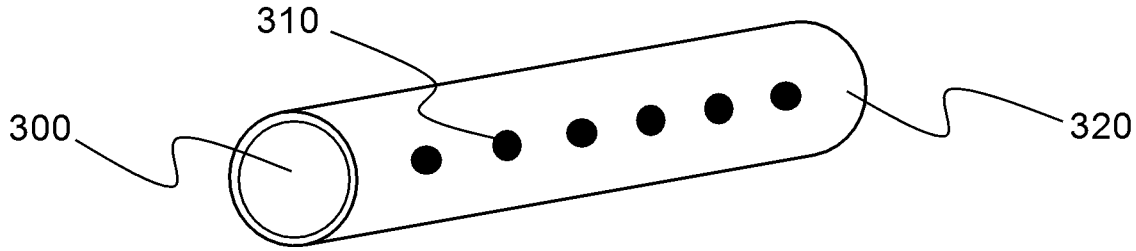
[Fig.]

Fig. 2



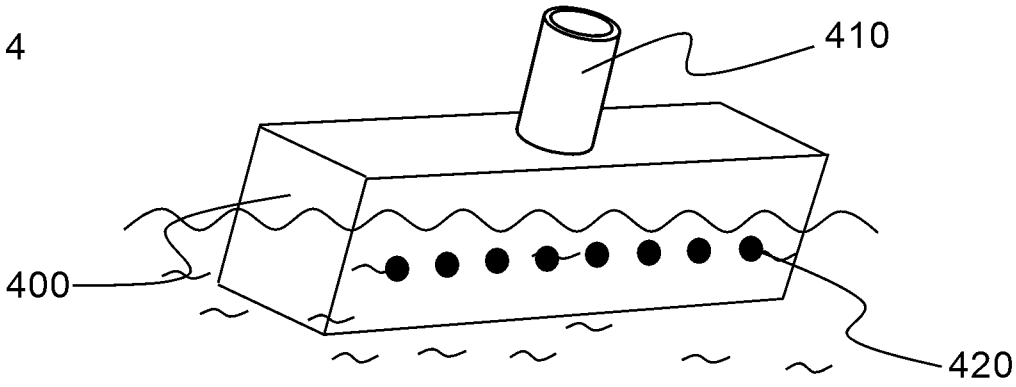
[Fig.]

Fig. 3



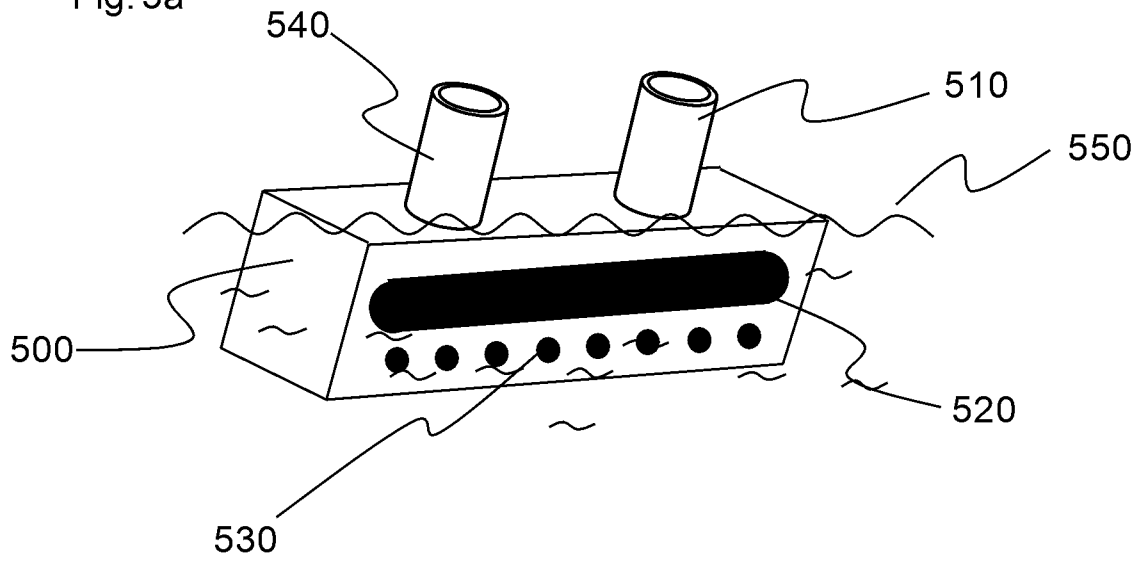
[Fig.]

Fig. 4



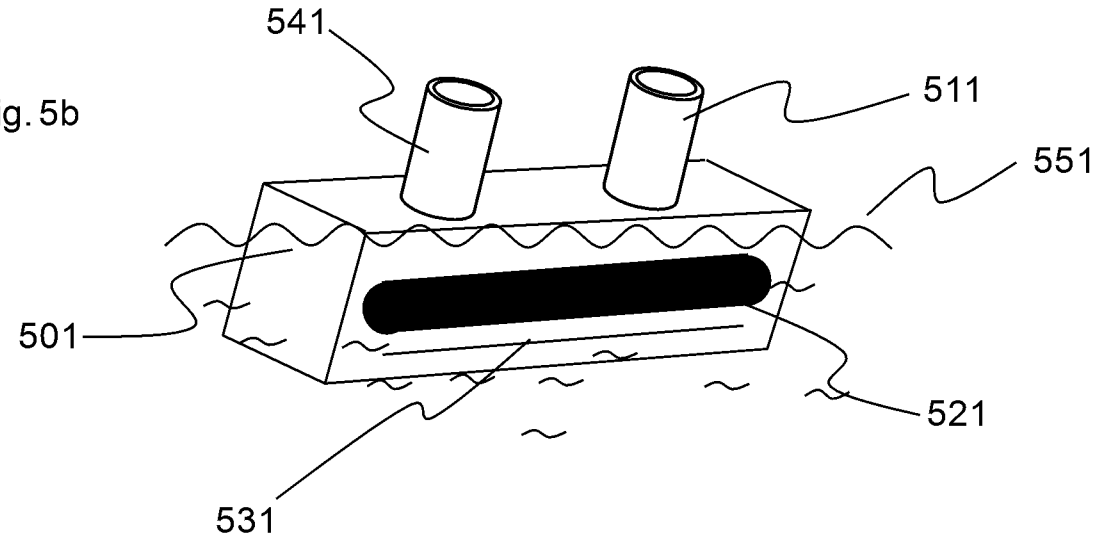
[Fig.]

Fig. 5a



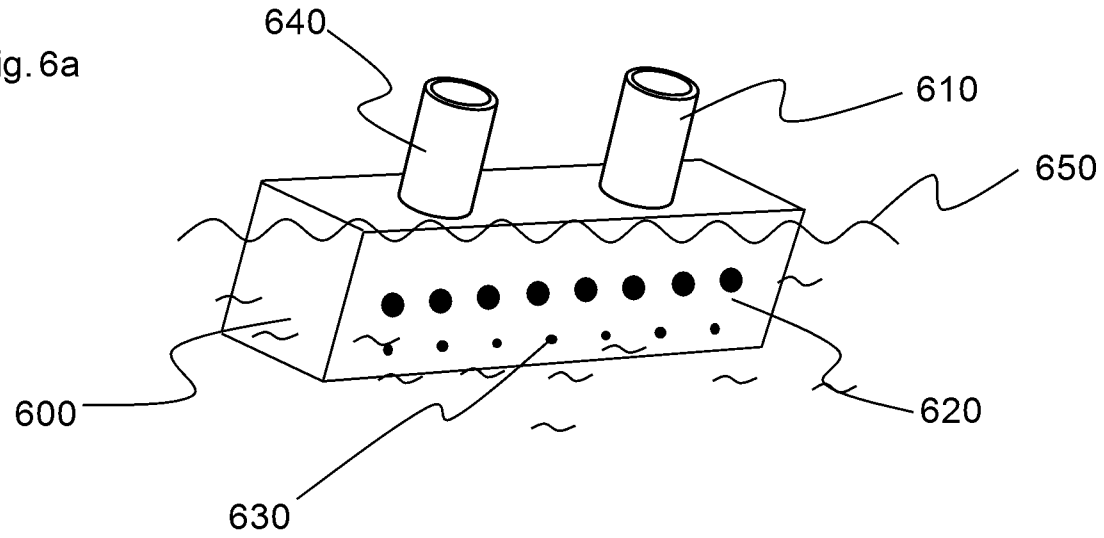
[Fig.]

Fig. 5b



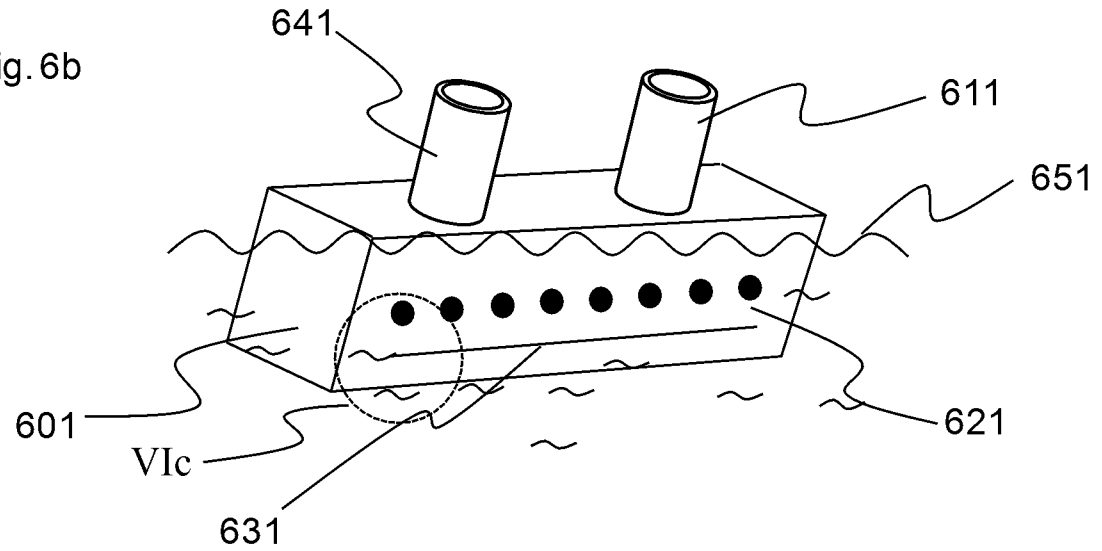
[Fig.]

Fig. 6a



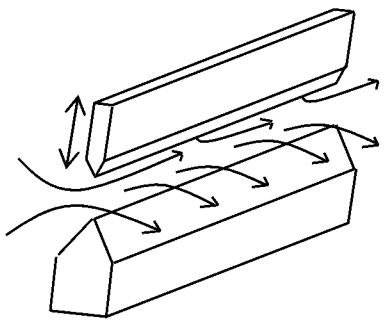
[Fig.]

Fig. 6b



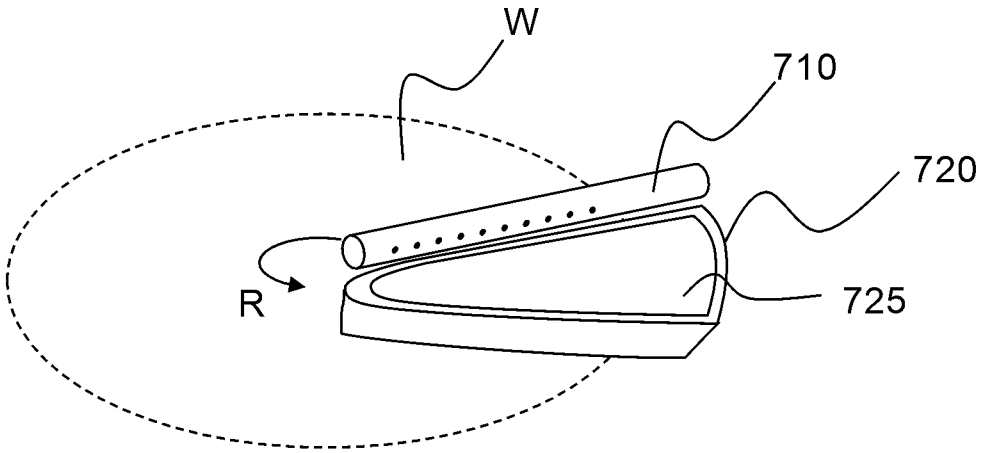
[Fig.]

Fig. 6c



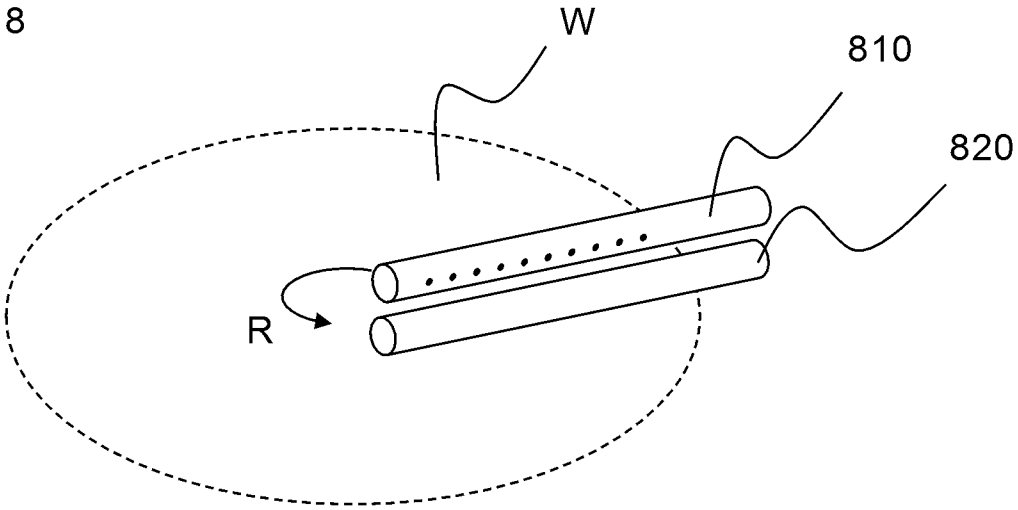
[Fig.]

Fig. 7



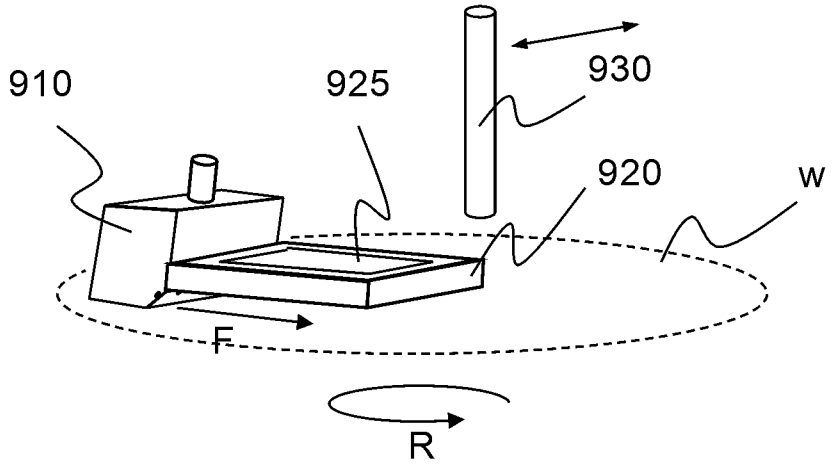
[Fig.]

Fig. 8



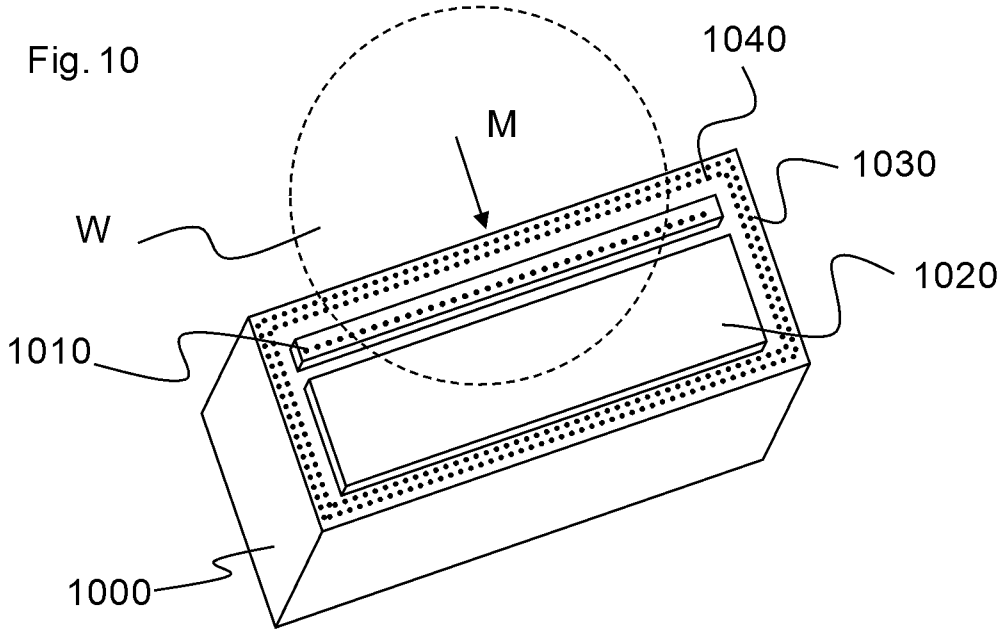
[Fig.]

Fig. 9



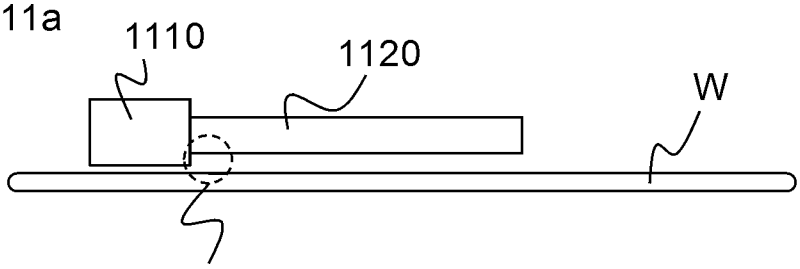
[Fig.]

Fig. 10



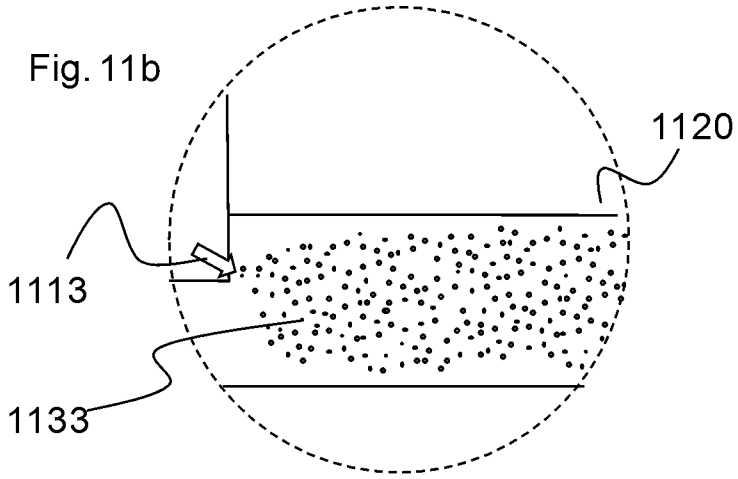
[Fig.]

Fig. 11a



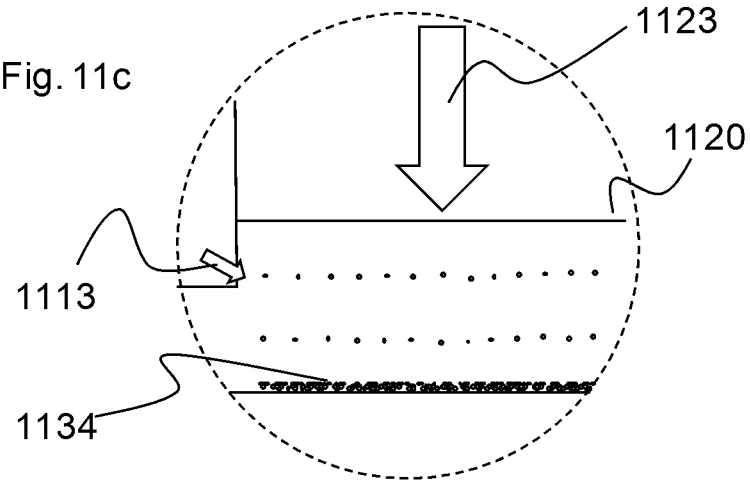
[Fig.]

Fig. 11b



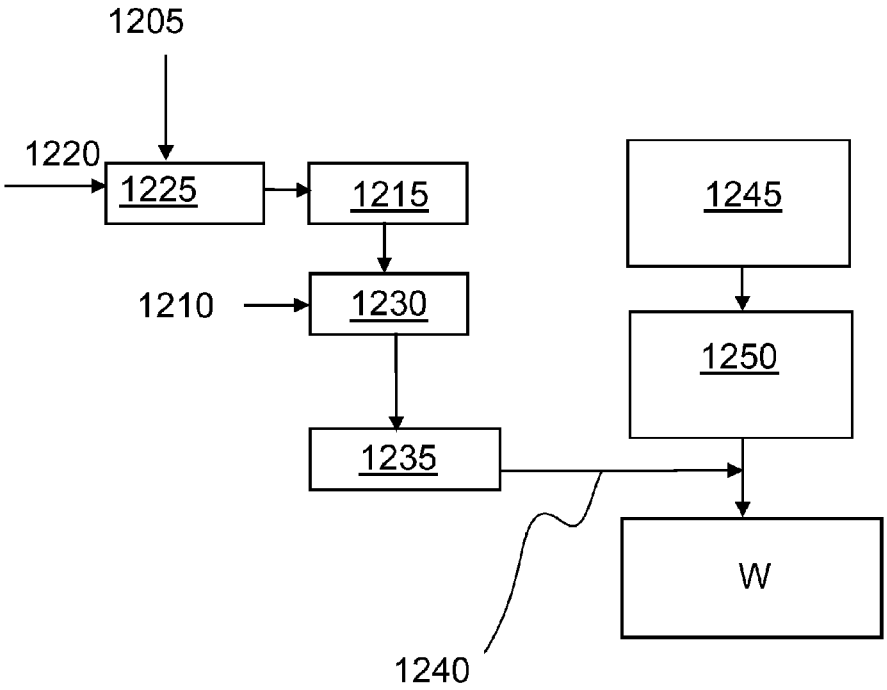
[Fig.]

Fig. 11c

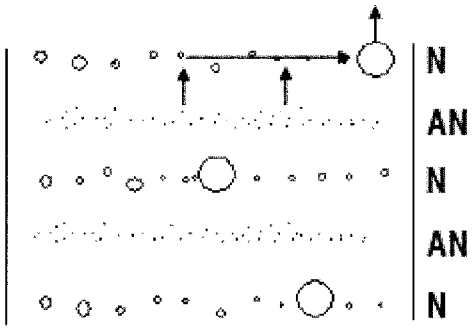


[Fig.]

Fig. 12

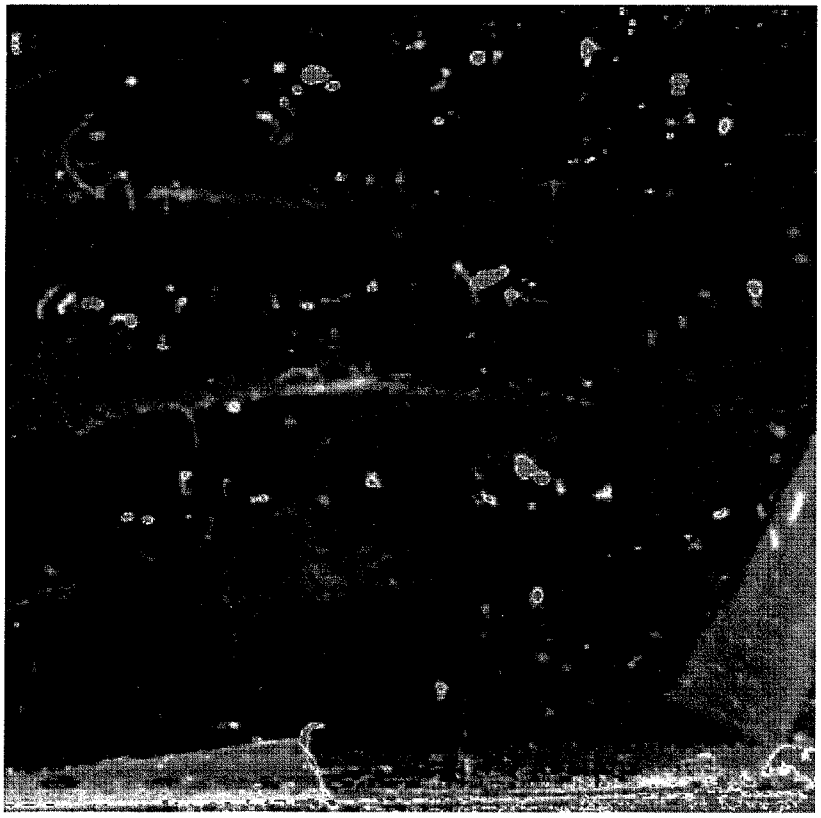


[Fig.]
Fig. 13a



Coalescence & Buoyancy
(small bubbles feed larger bubbles)

[Fig.]
Fig. 13b



[Fig.]

Fig. 14

Transducer	BubbleMachine	Voltage	Cleaningnumber
1a	no	64	-4
	no	124	-5
	yes	32	-4
	yes	64	1
	yes	124	14
1c	no	64	0
	no	124	1
	yes	32	-1
	yes	64	5
	yes	124	2
1d	no	64	-1
	no	124	-3
	yes	32	-3
	yes	64	0
	yes	124	6
GR1	no	35	0
	no	70	12
	yes	20	-3
	yes	35	3
	yes	70	19
GR1b	no	32	3
	no	63	14
	no	124	8
	yes	32	6
	yes	63	16
	yes	124	15
towelcleaned			14

[Fig.]

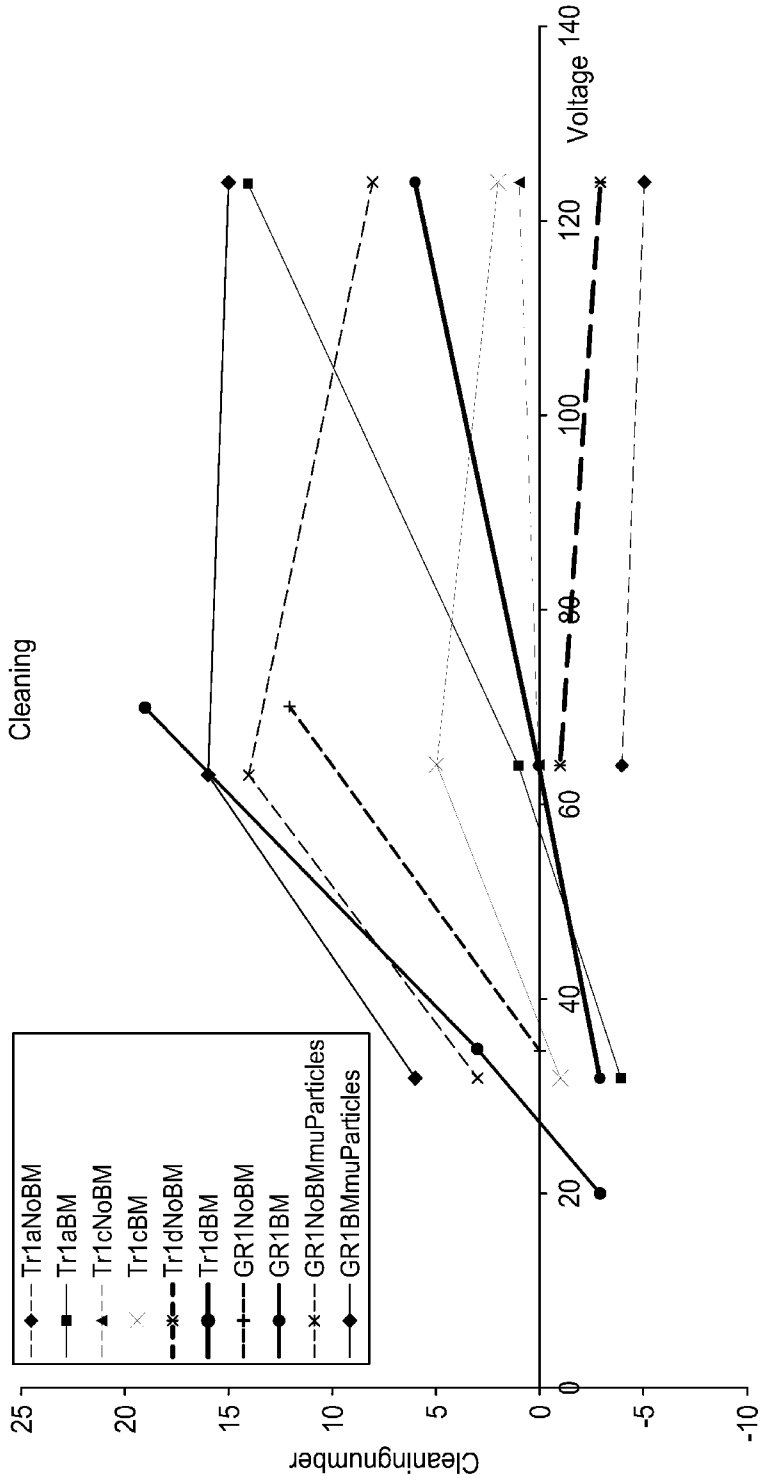

Cleaning
Cleaningnumber
Voltage
25
20
15
10
5
0
-5
-10
0
20
40
60
80
100
120
140
Tr1aNoBM
Tr1aBM
Tr1cNoBM
Tr1cBM
Tr1dNoBM
Tr1dBM
GR1NoBM
GR1BM
GR1NoBMmuParticles
GR1BMmuParticles

FIG. 15

[Fig.]

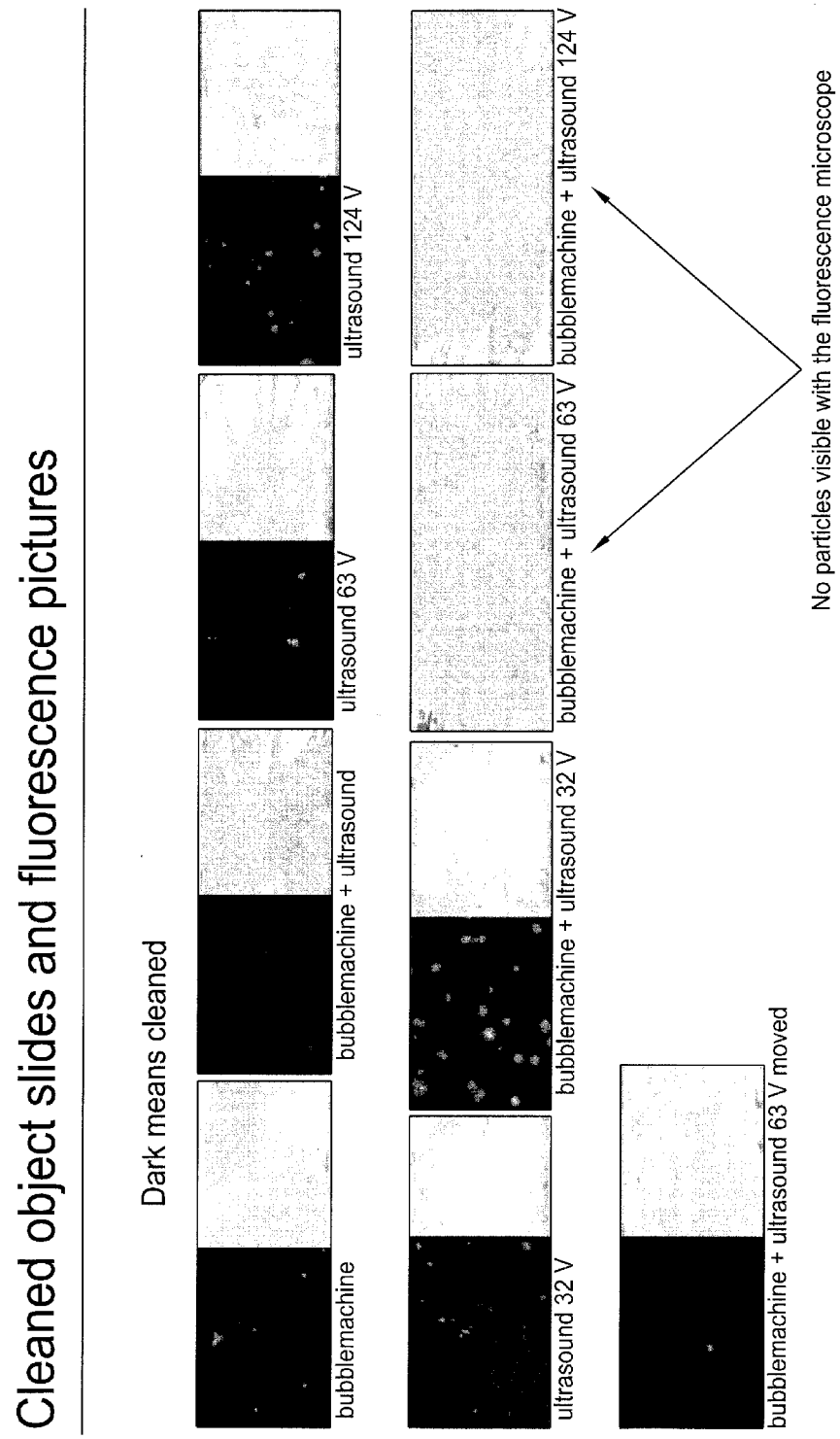

Cleaned object slides and fluorescence pictures
Dark means cleaned
bubblemachine
bubblemachine + ultrasound
ultrasound 63 V
ultrasound 124 V
ultrasound 32 V
bubblemachine + ultrasound 32 V
bubblemachine + ultrasound 63 V
bubblemachine + ultrasound 124 V
bubblemachine + ultrasound 63 V moved
No particles visible with the fluorescence microscope

FIG. 16