DRAWINGS

Fig. 1

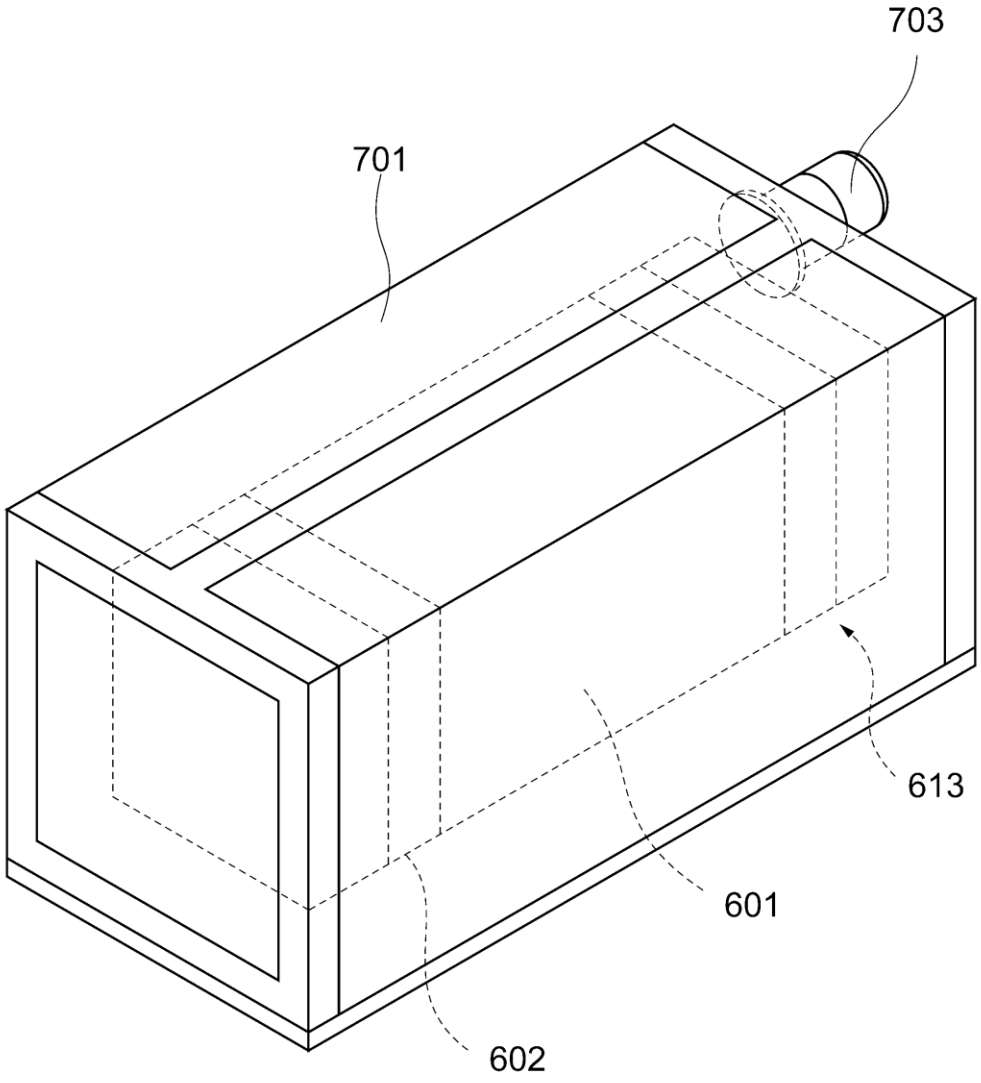


Fig. 2

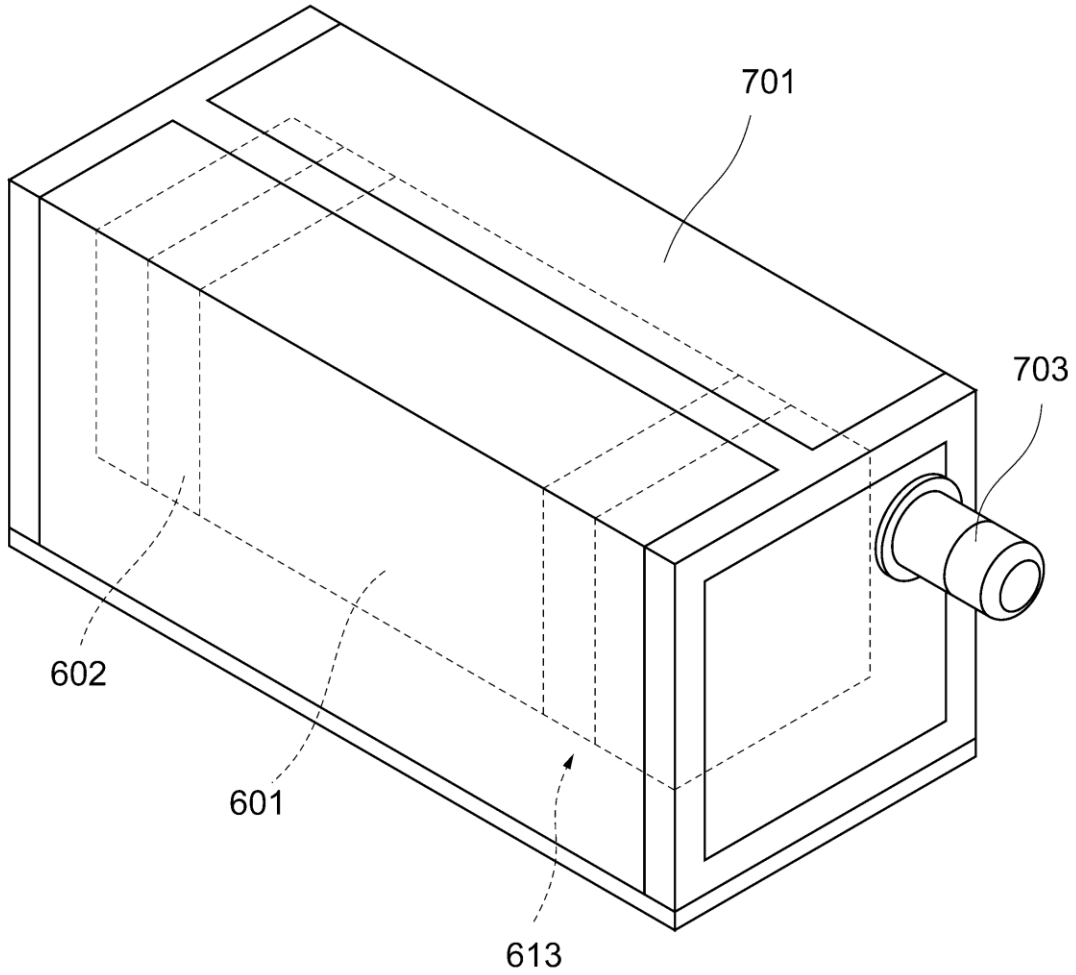


Fig. 3

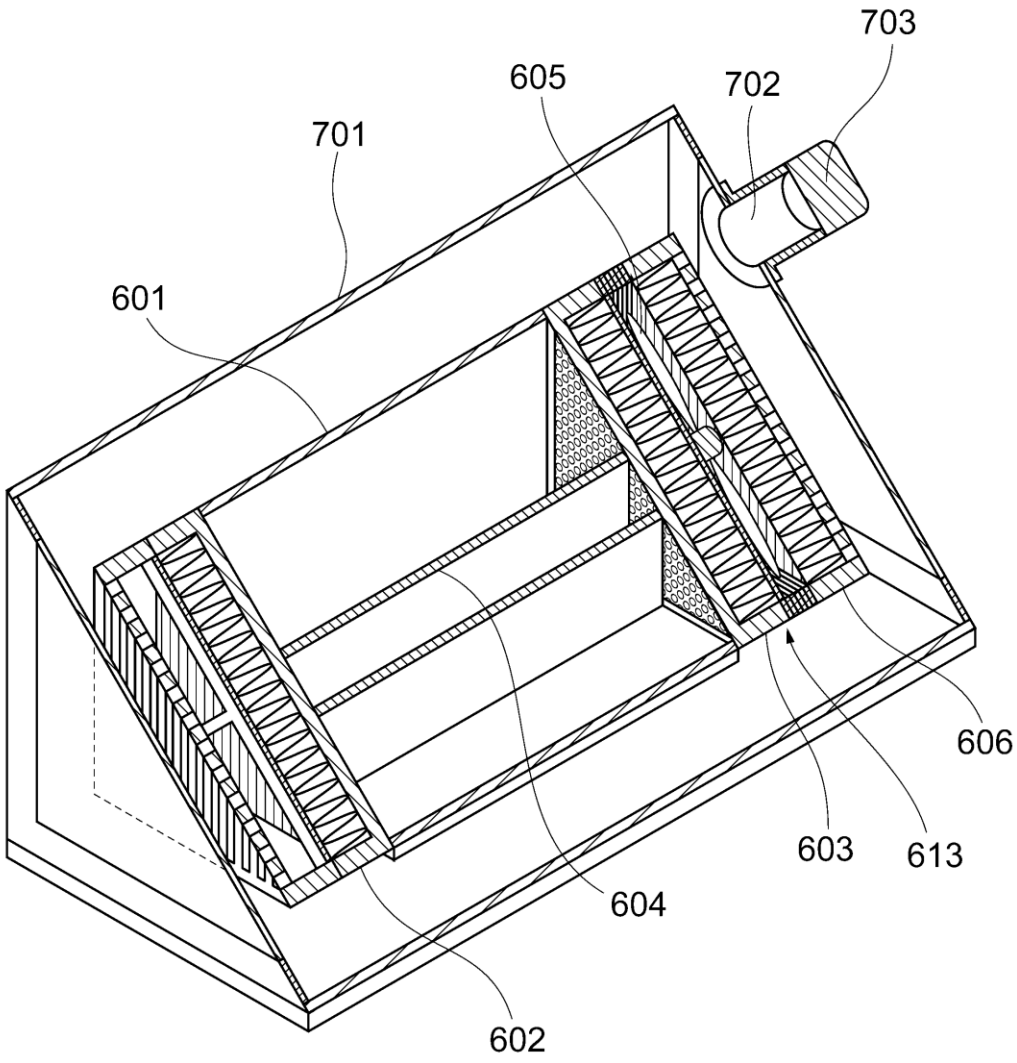


Fig. 4

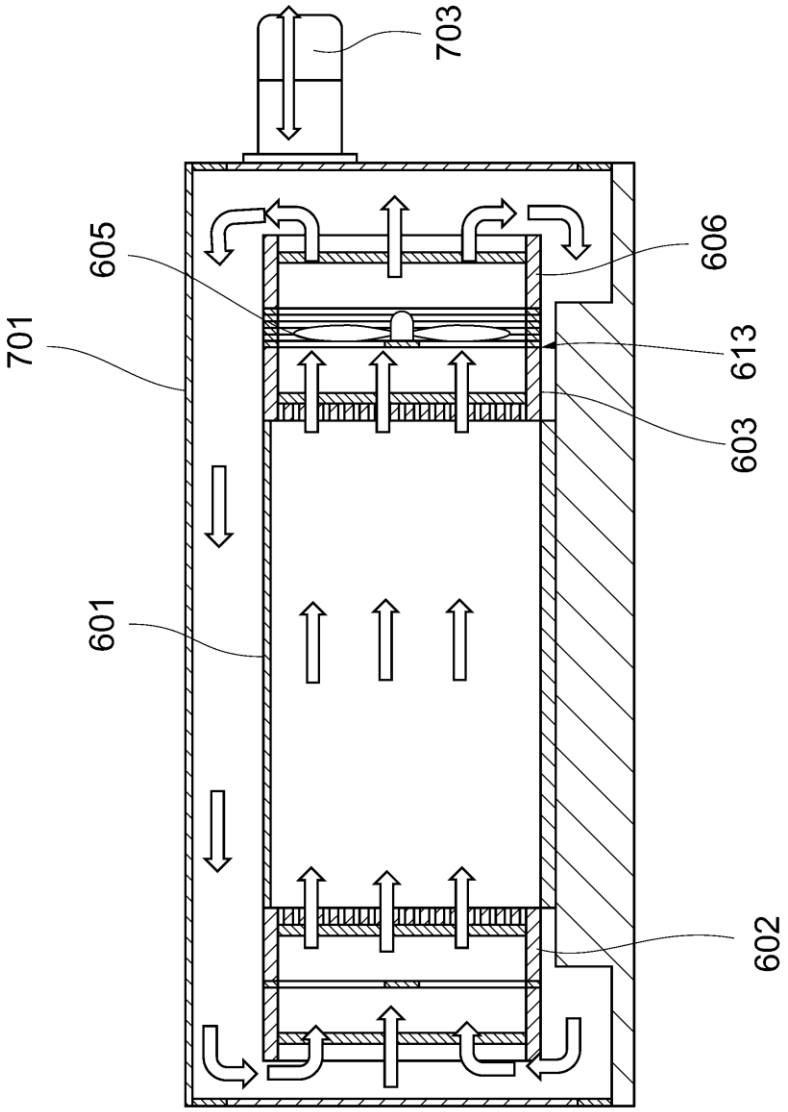


Fig. 5

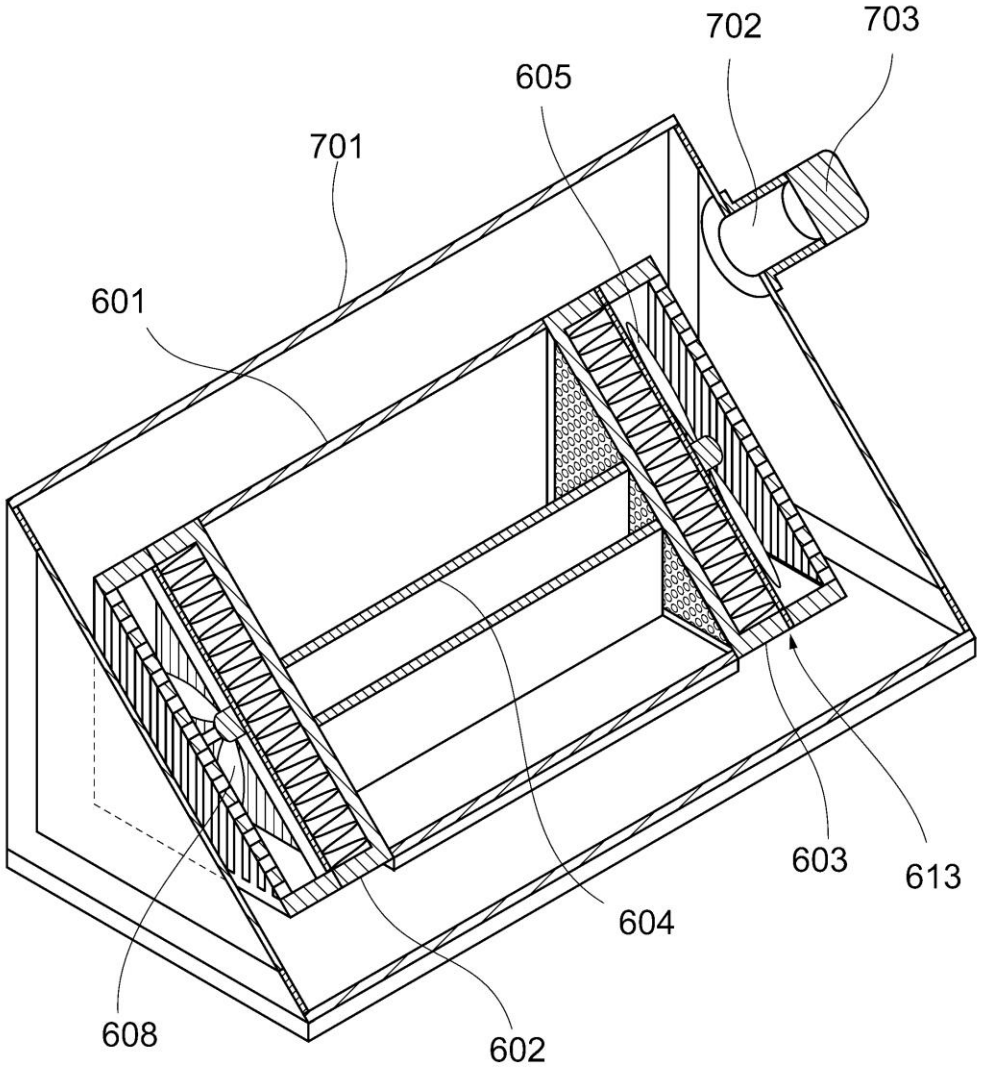


Fig. 6

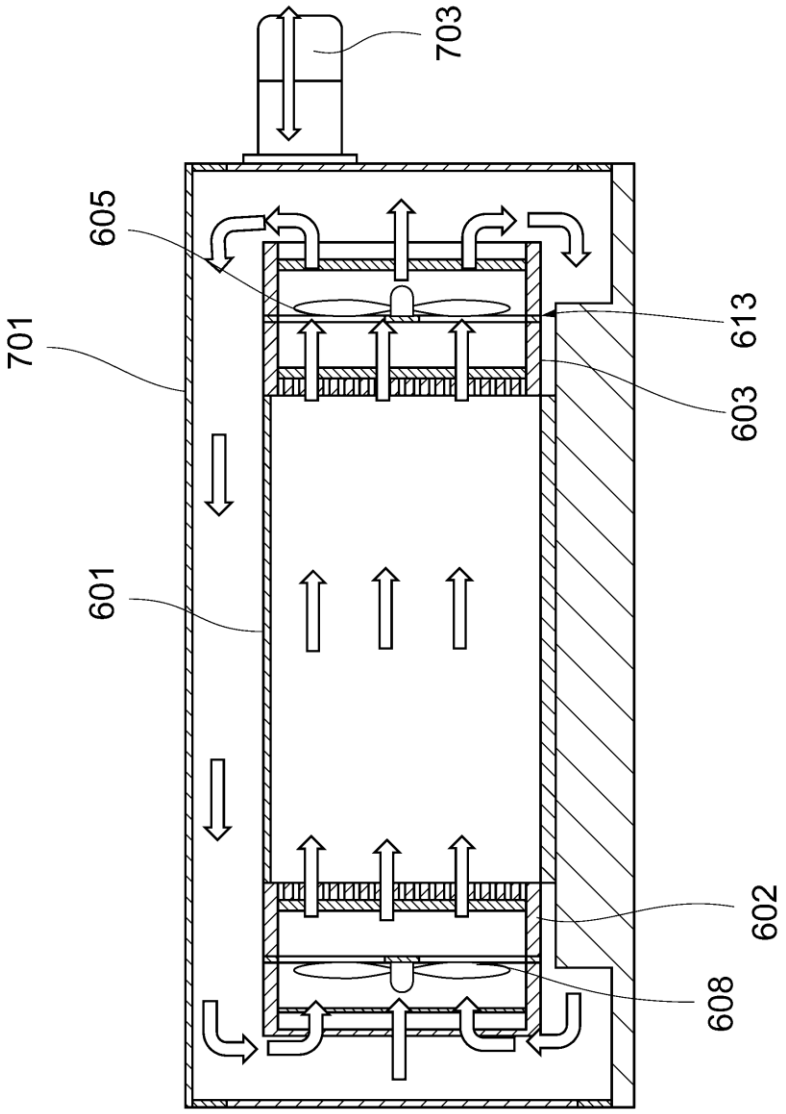


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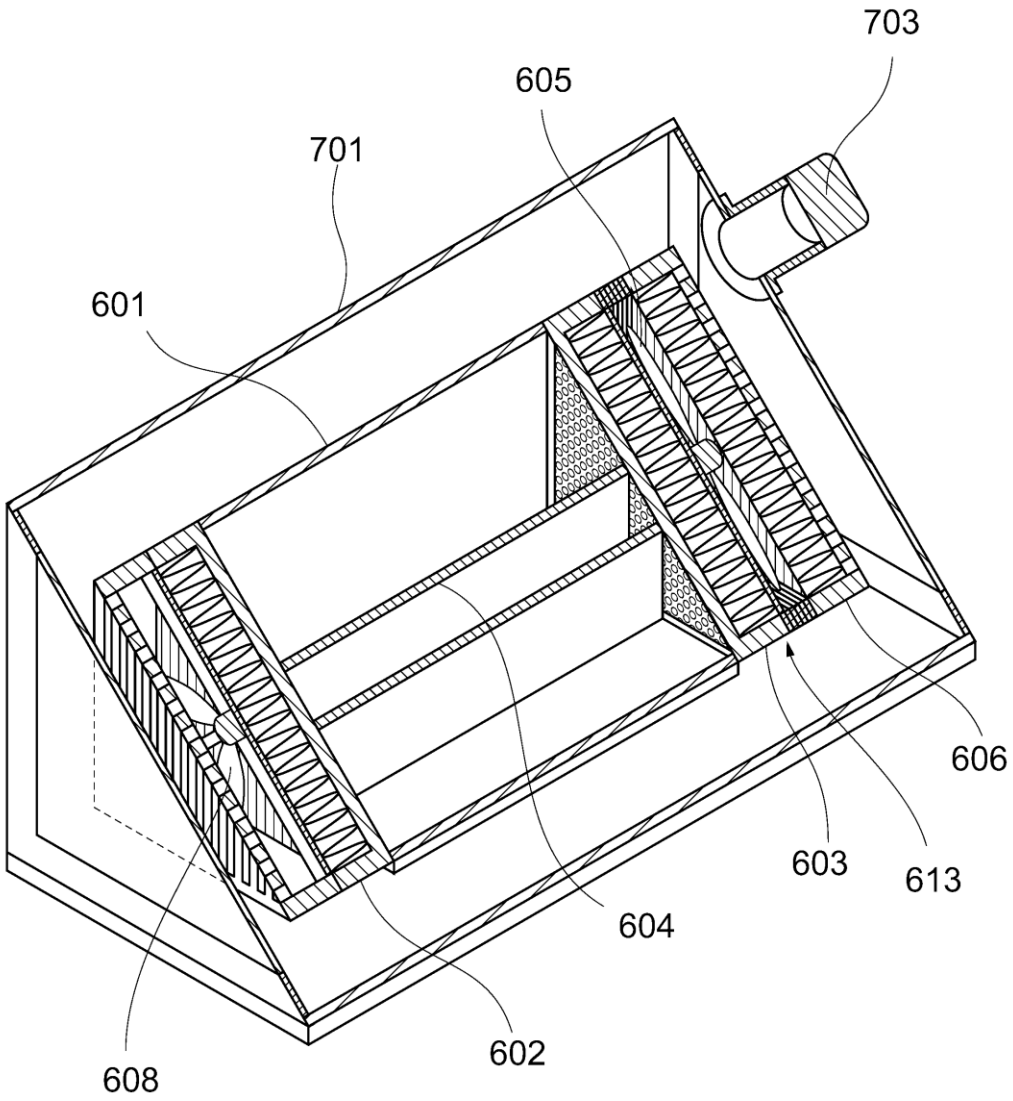


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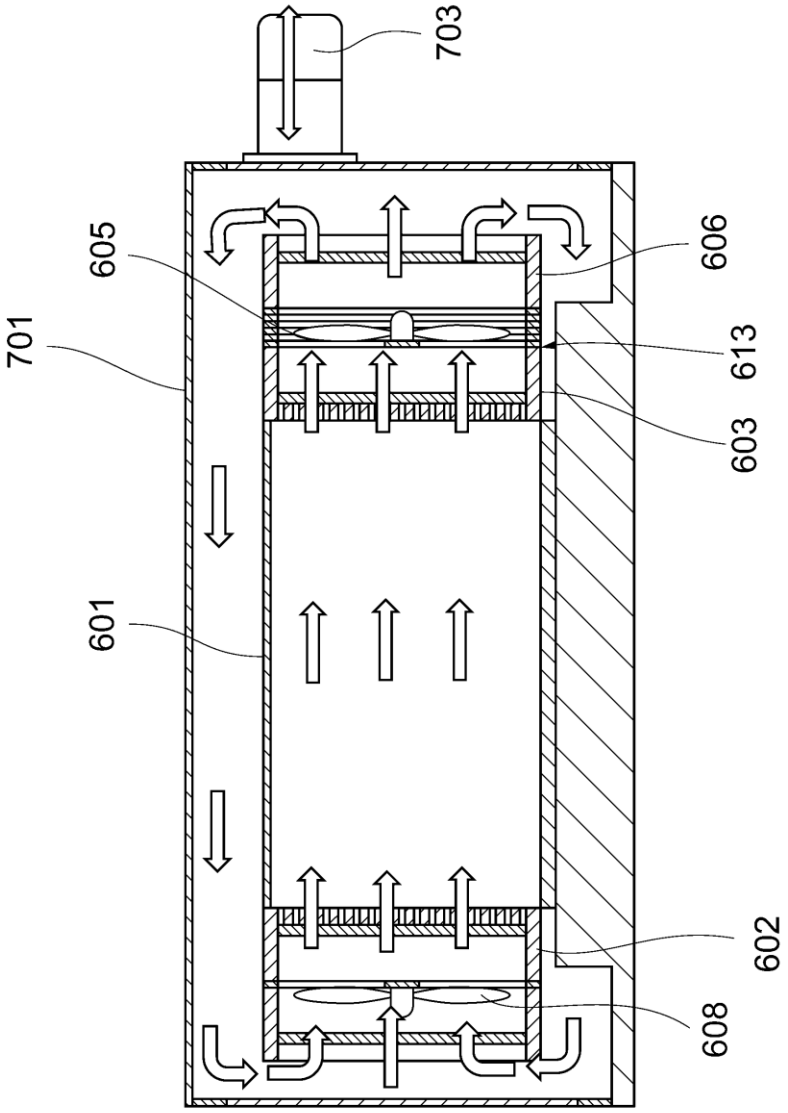


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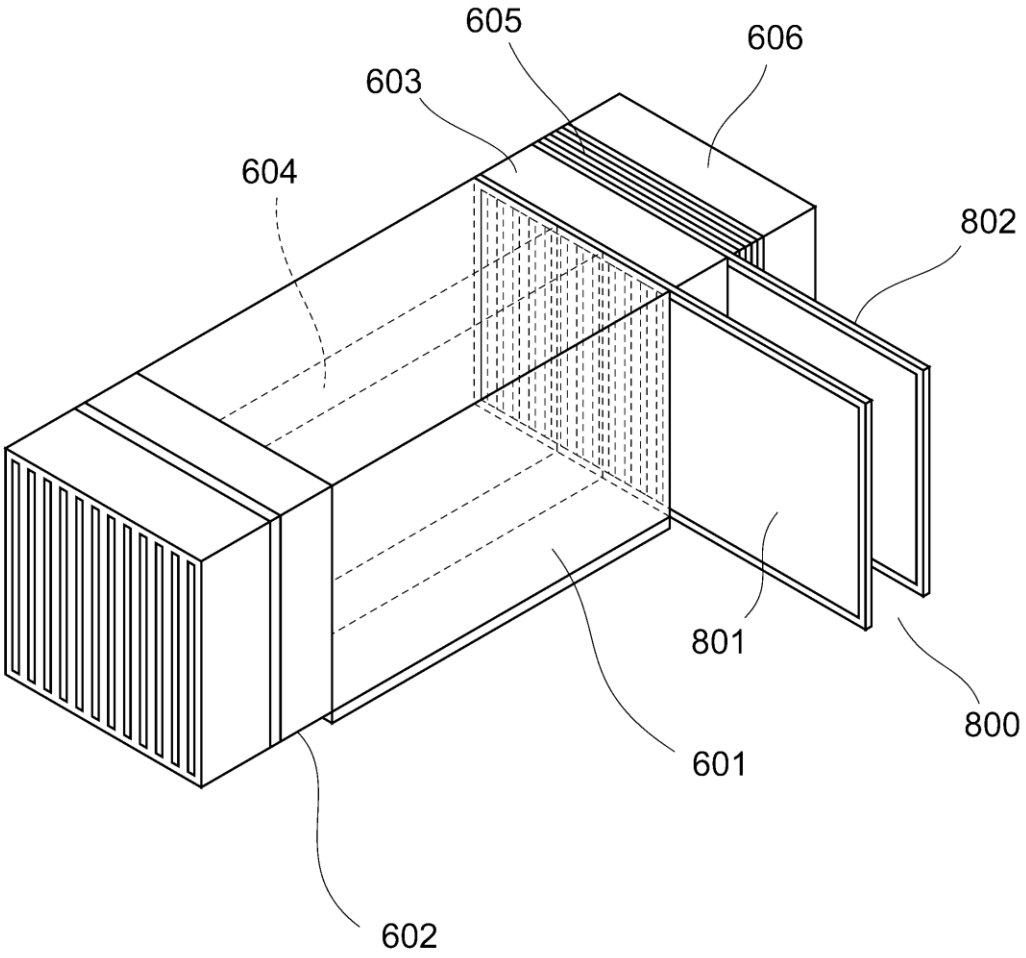


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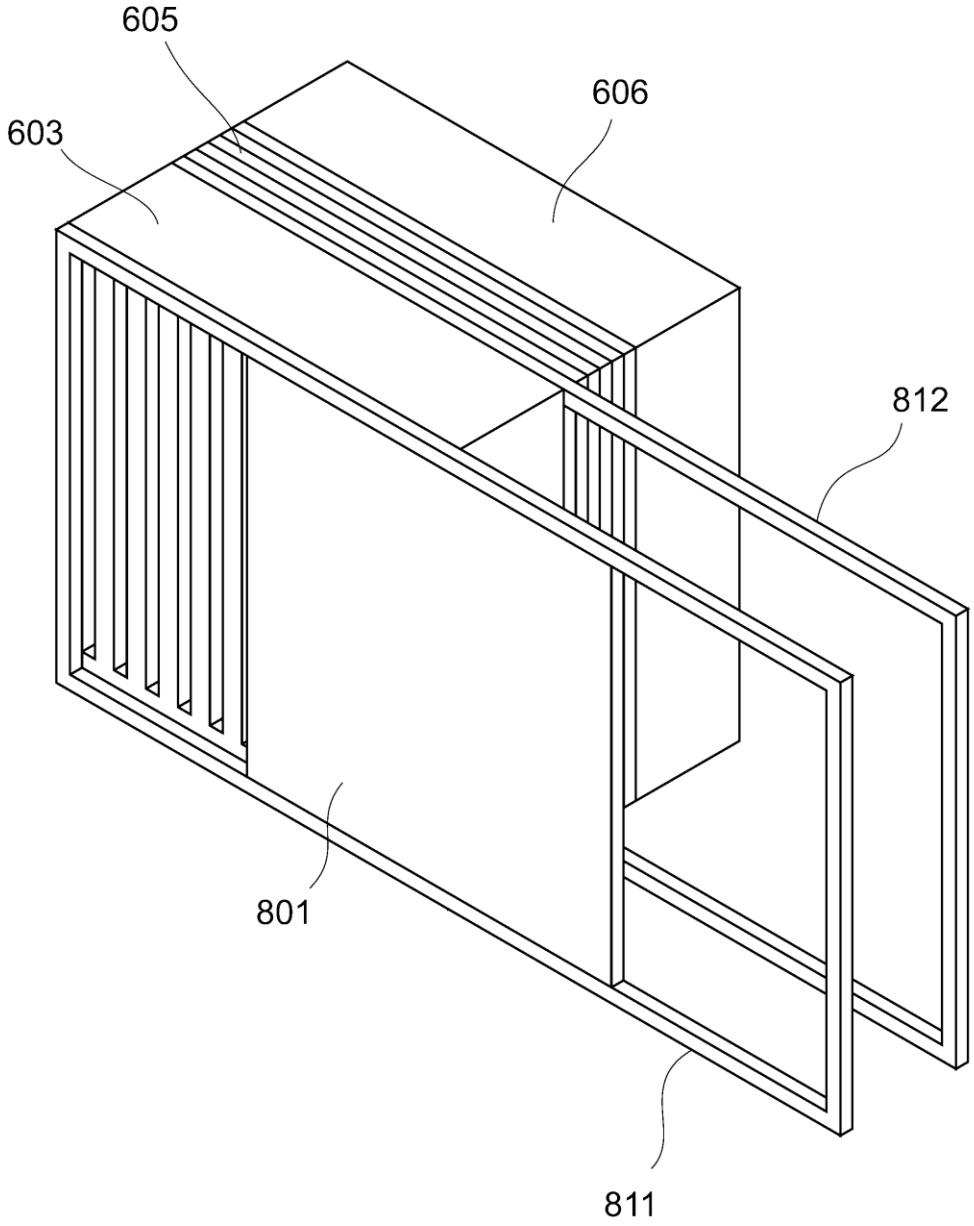


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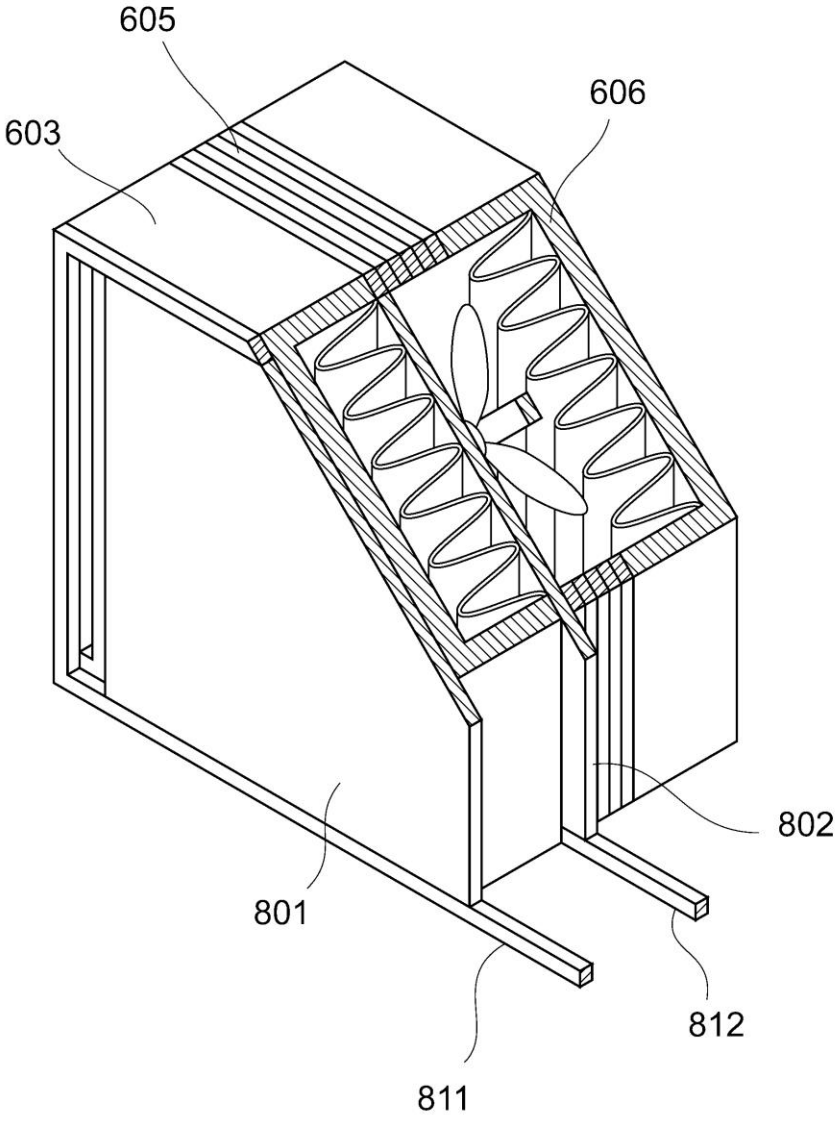


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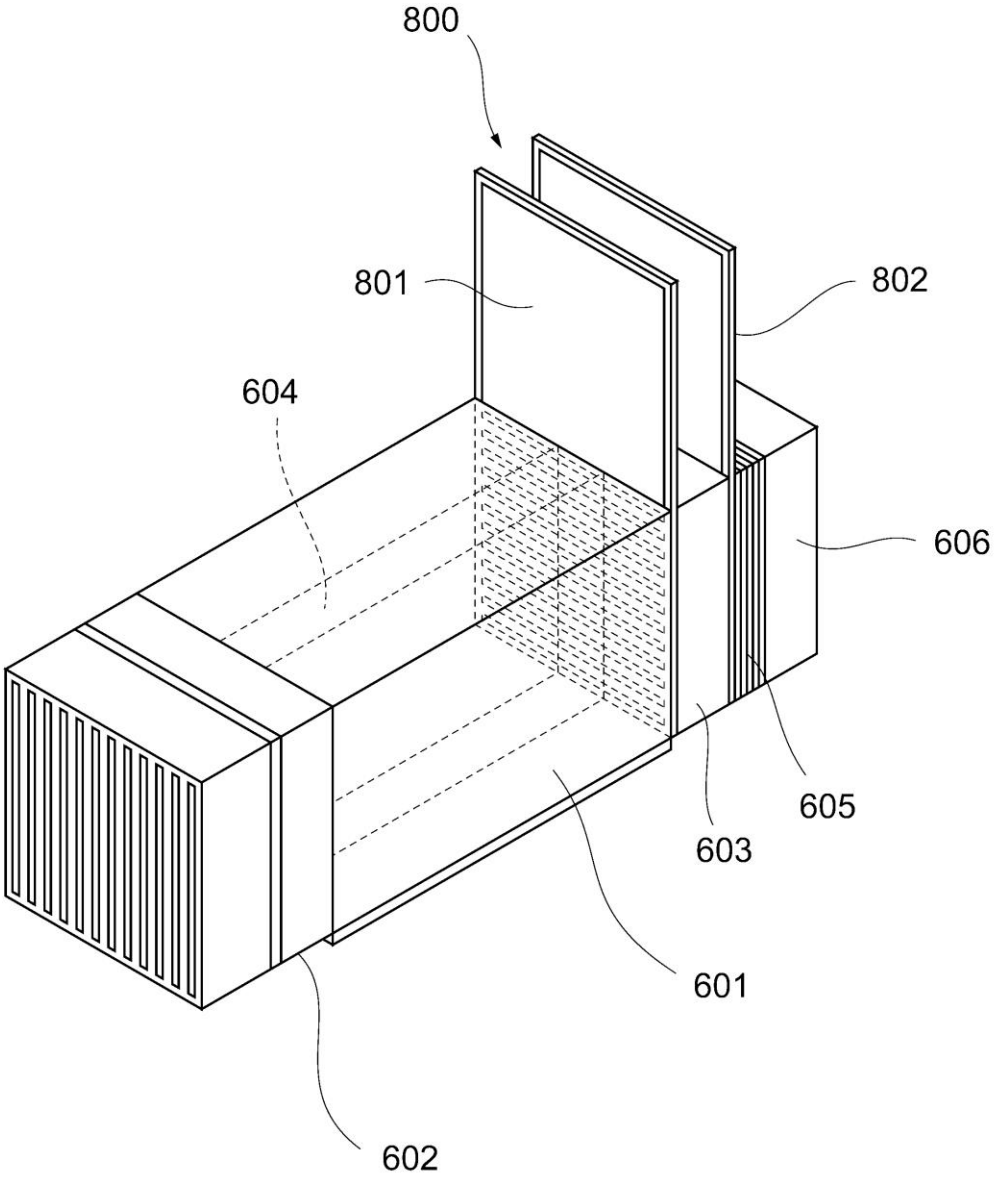


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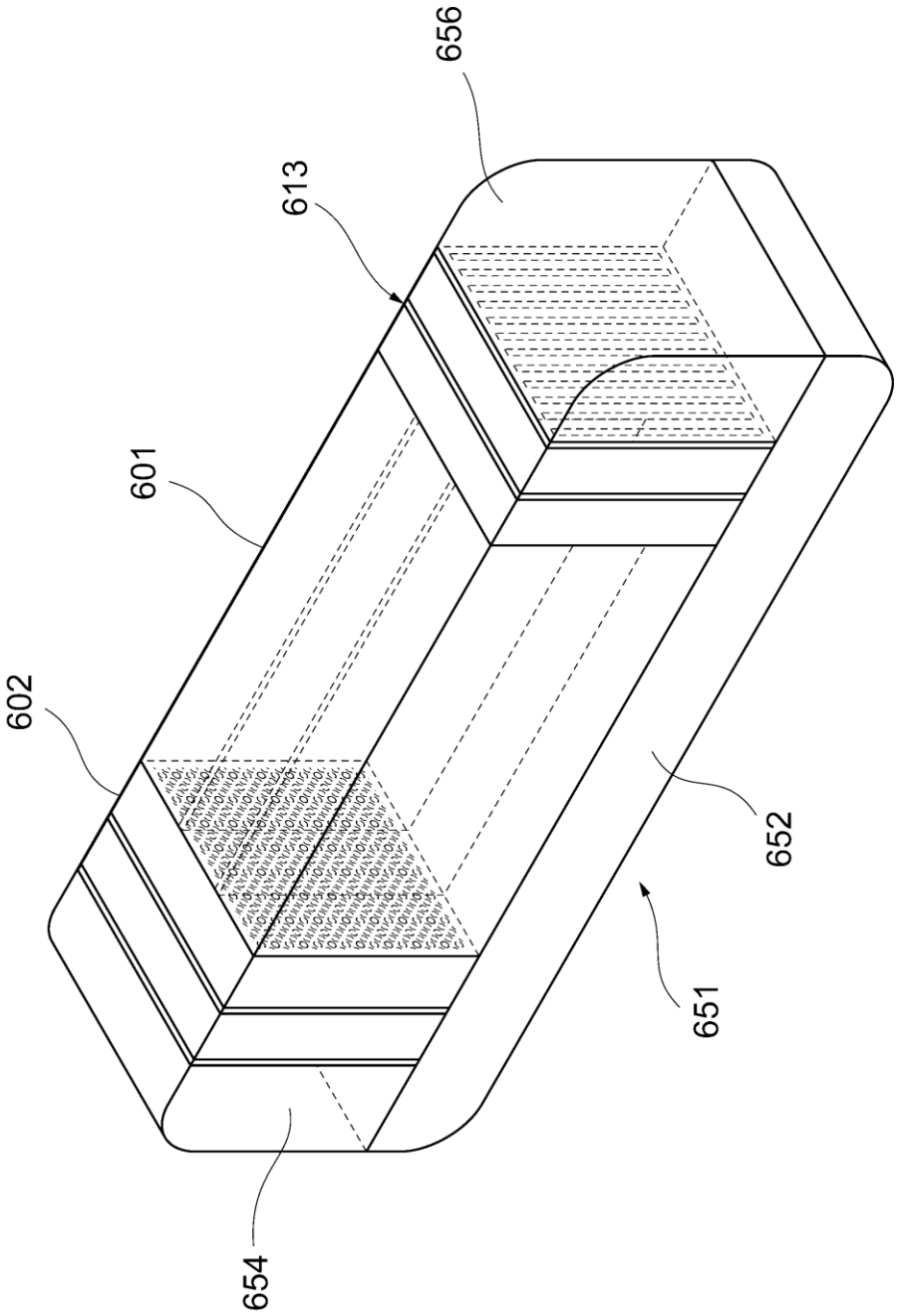


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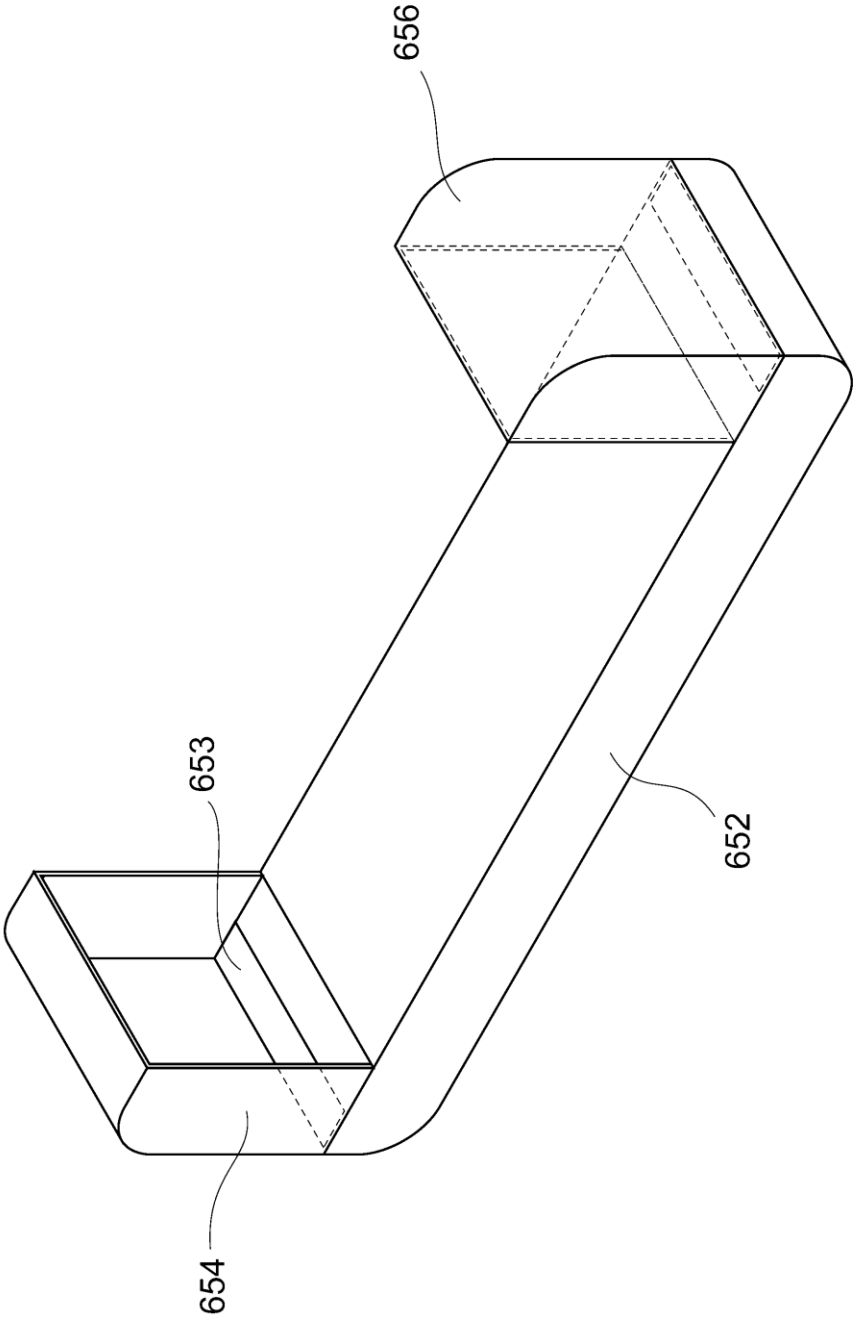


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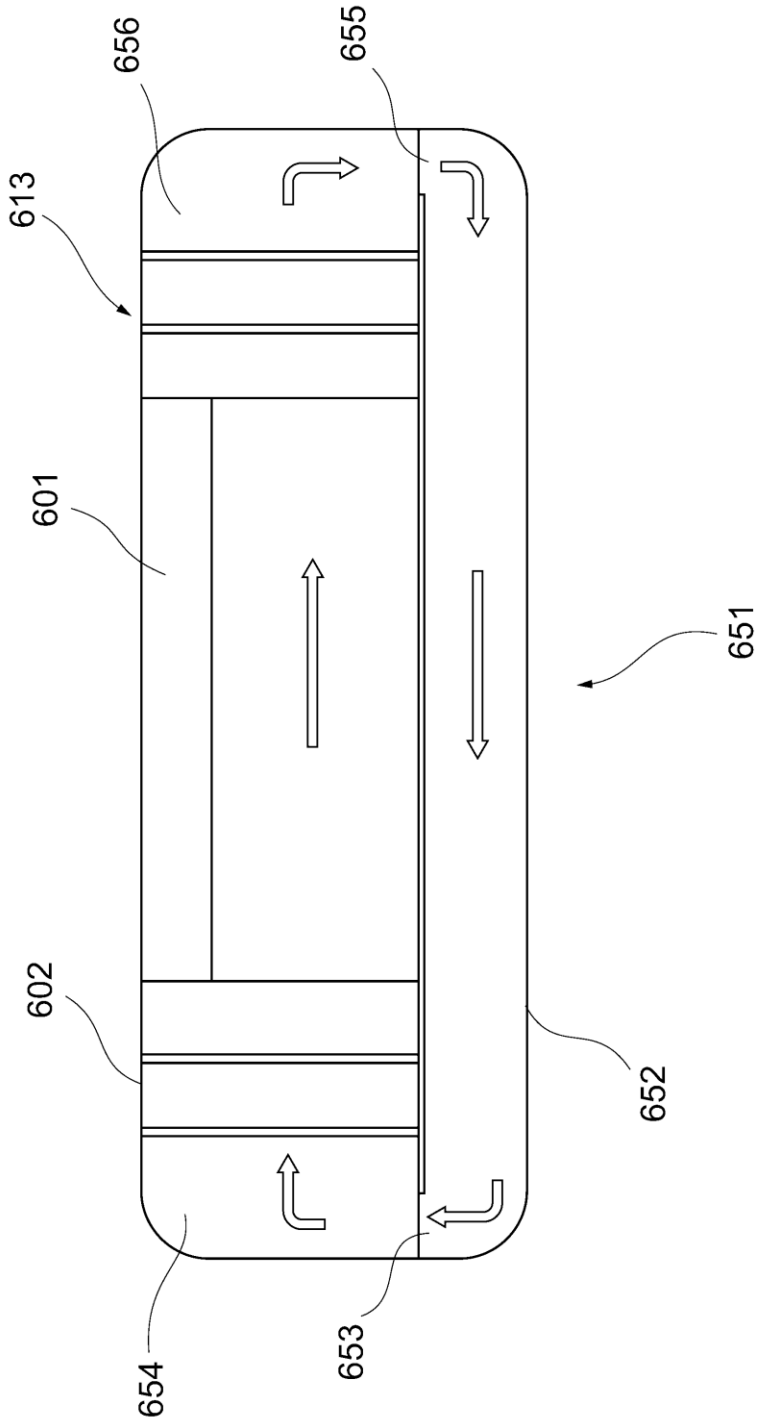


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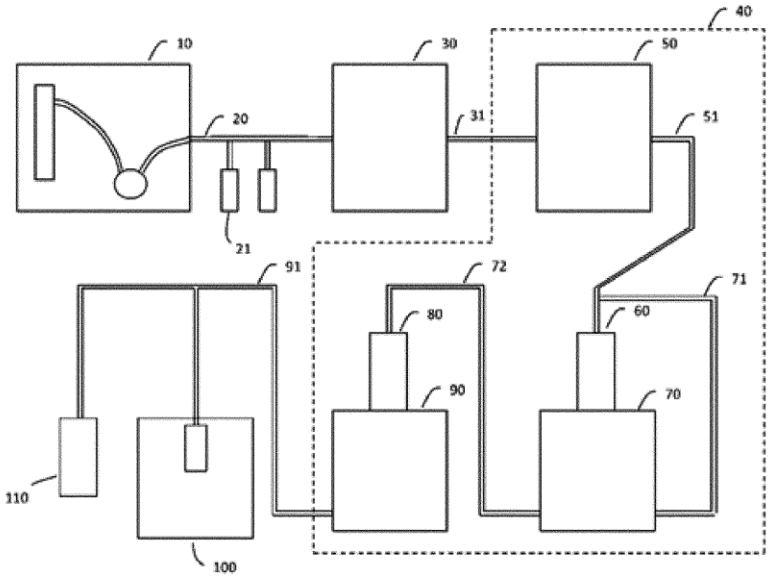


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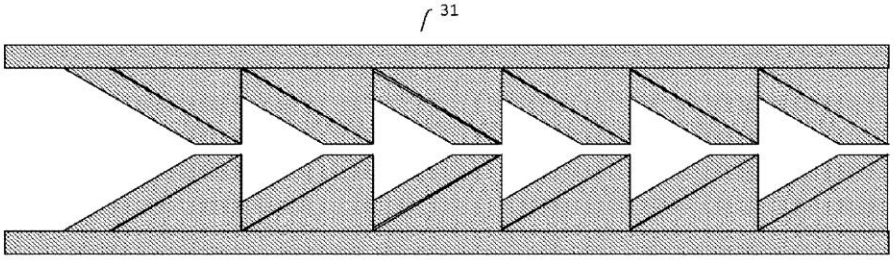


Fig. 18

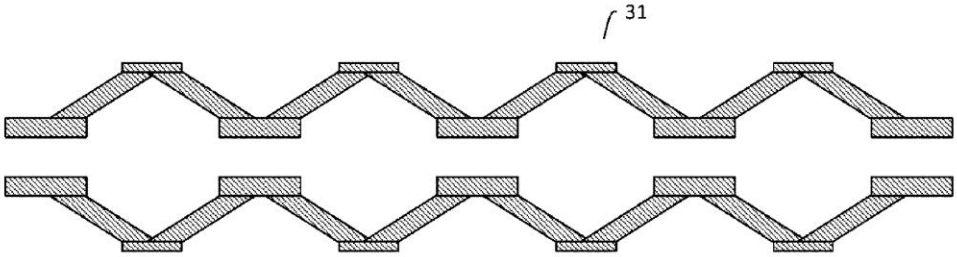


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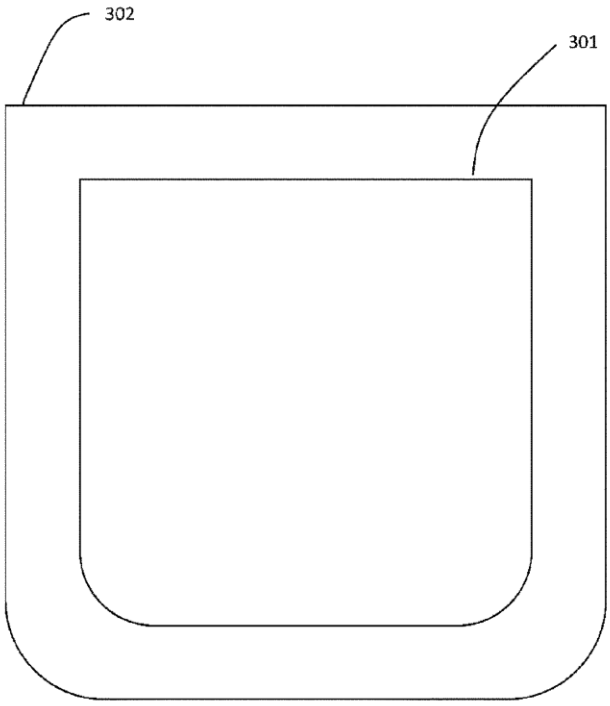


Fig. 20

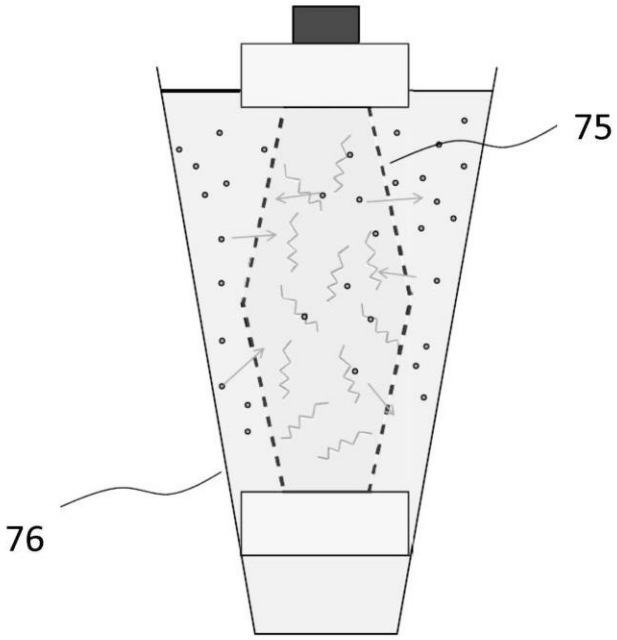


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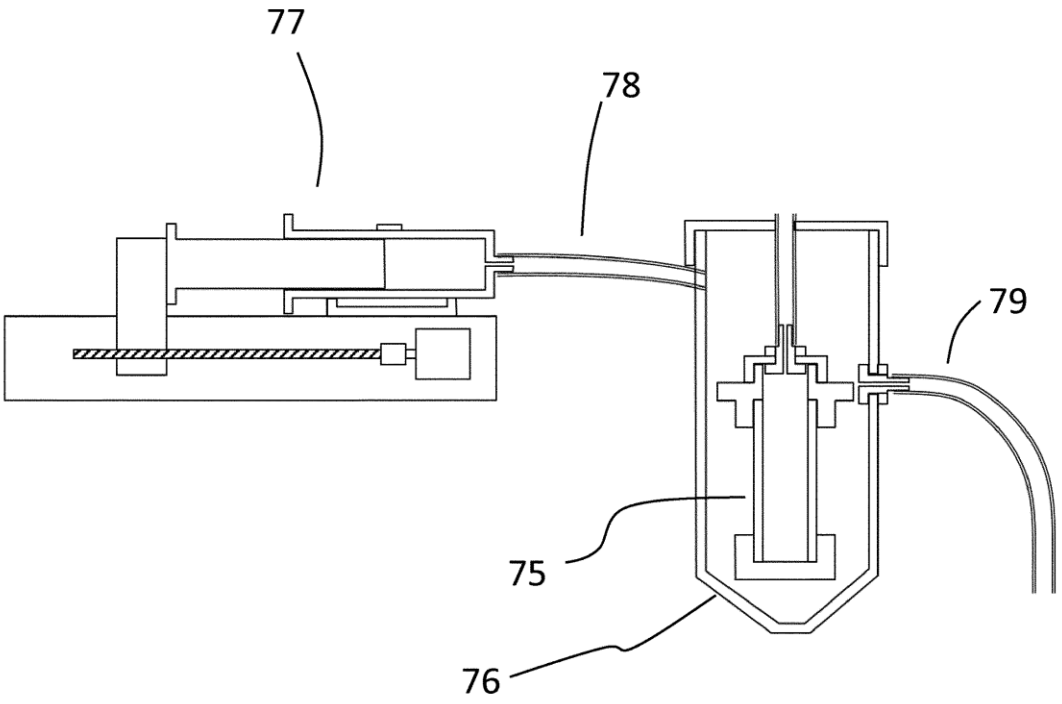


Fig. 22

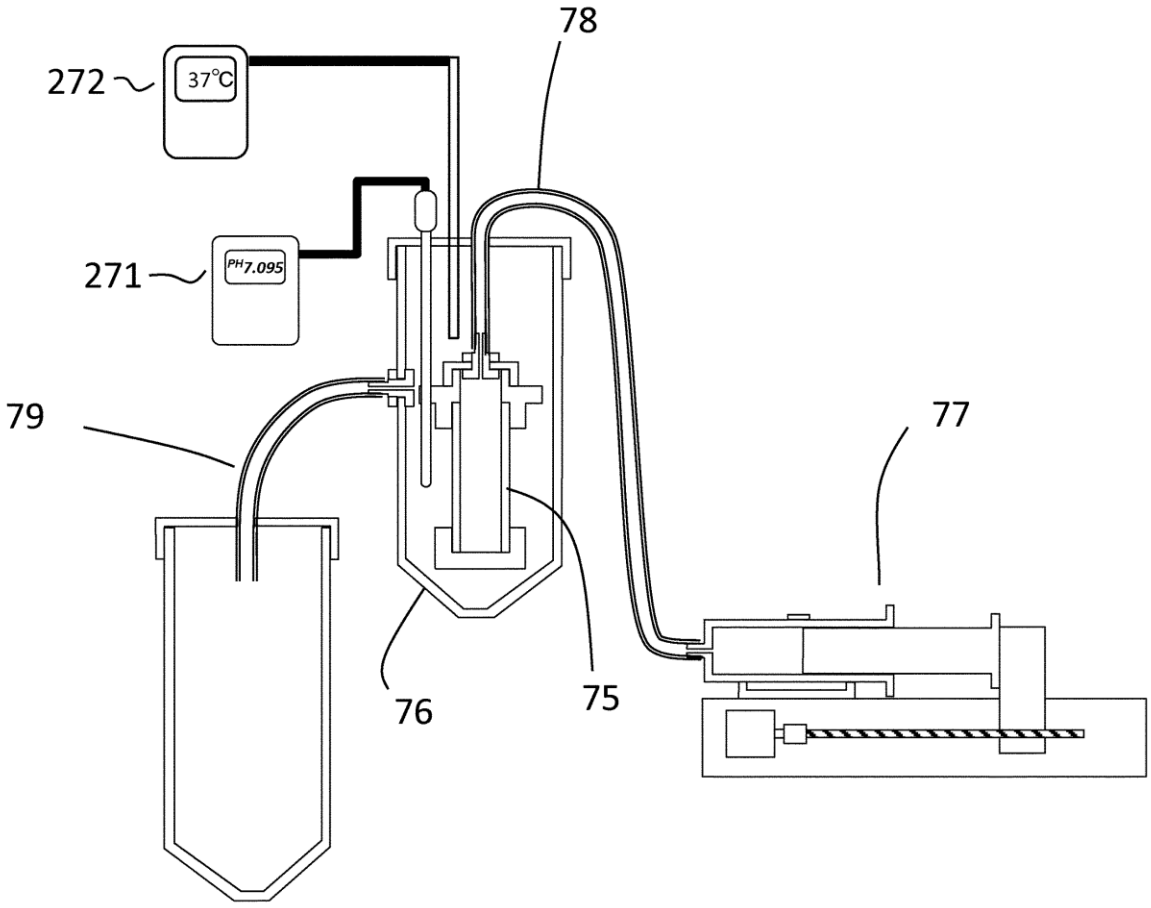


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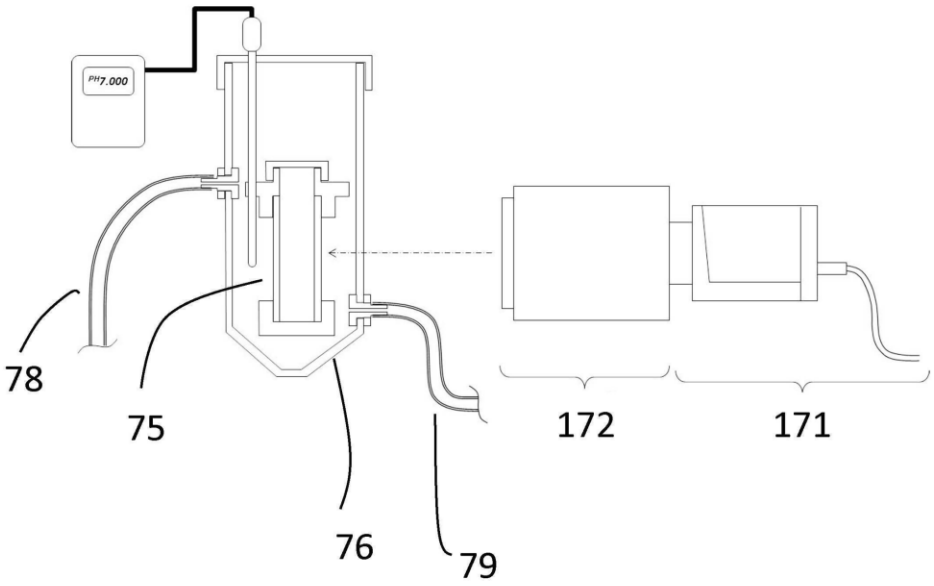


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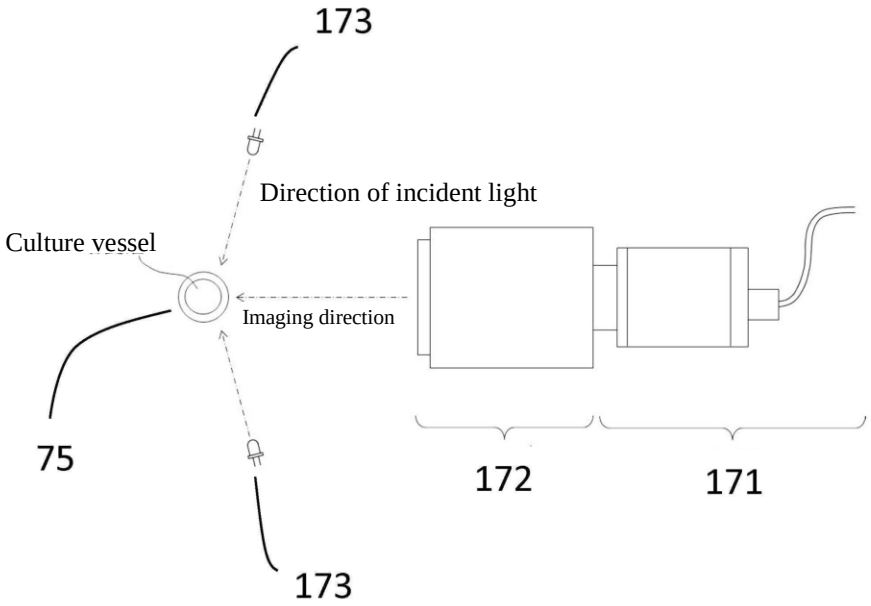

173
Direction of incident light
Culture vessel
Imaging direction
75
172
171
173

Fig. 25

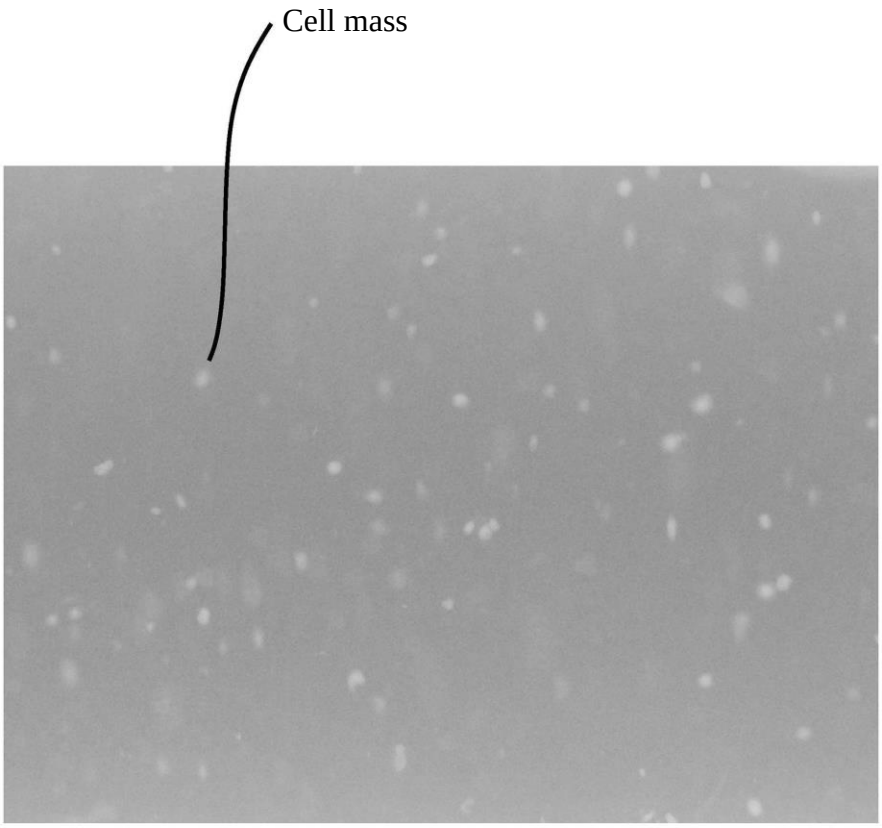


Fig. 26

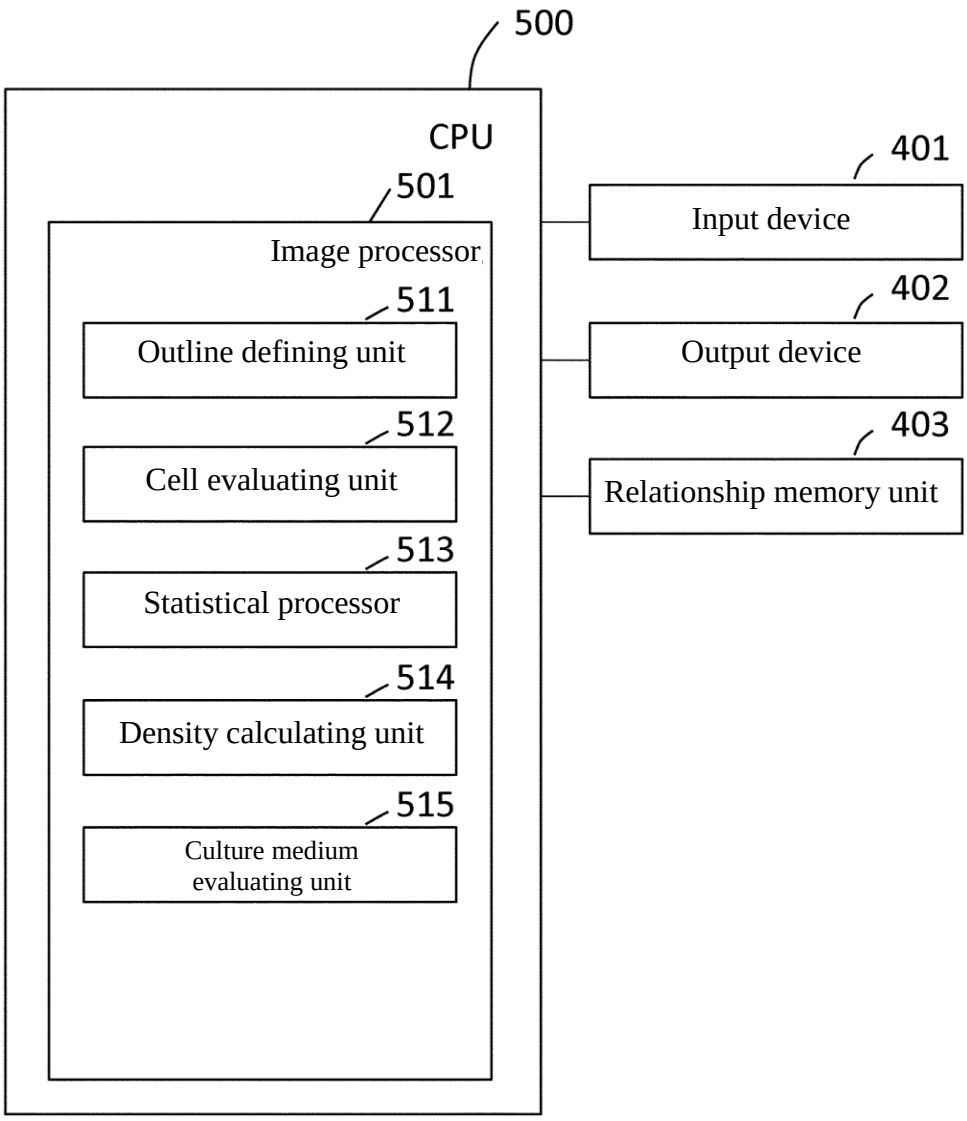

500
CPU
501
Image processor
511
Outline defining unit
512
Cell evaluating unit
513
Statistical processor
514
Density calculating unit
515
Culture medium evaluating unit
401
Input device
402
Output device
403
Relationship memory unit

Fig. 27

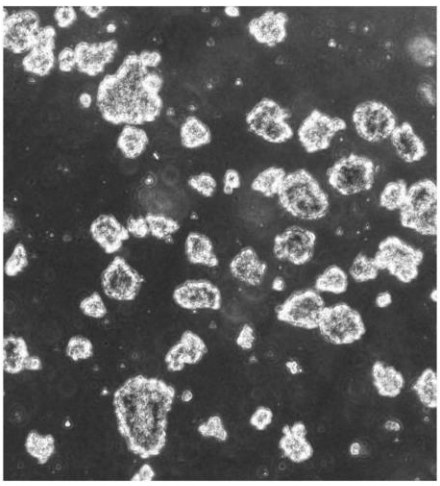


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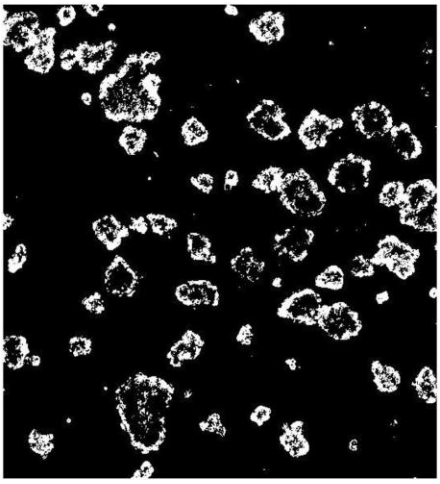


Fig. 29

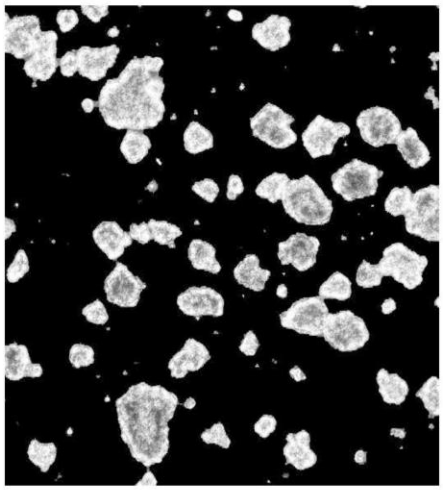


Fig. 30



Fig. 31

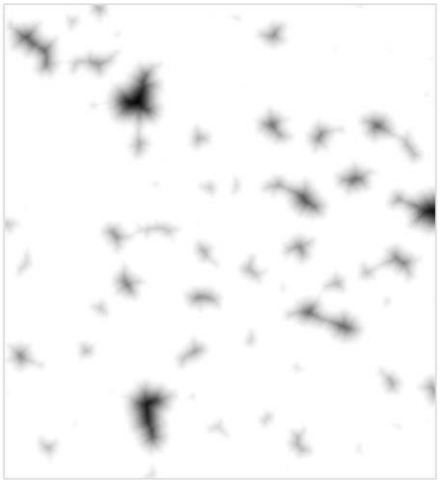


Fig. 32

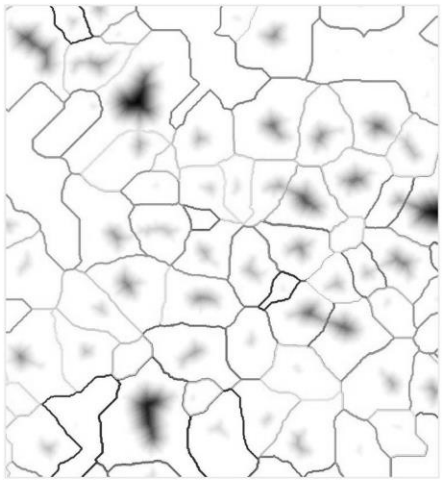


Fig. 33

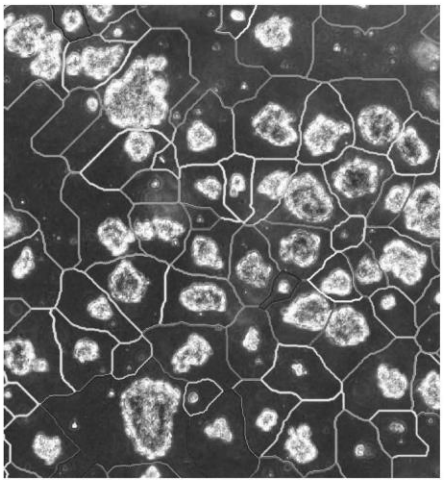


Fig. 34

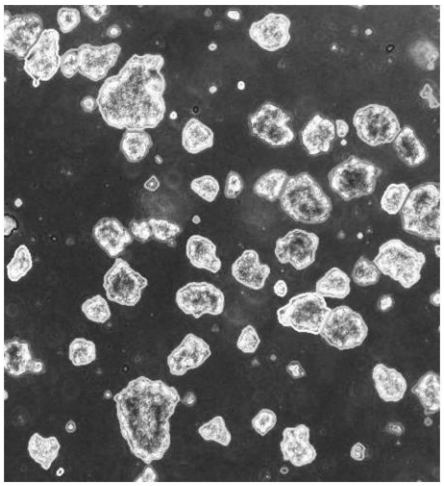


Fig. 35

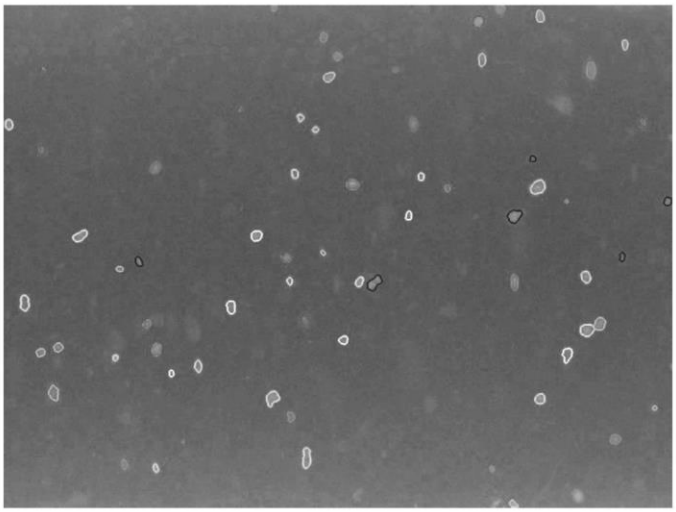


Fig. 36

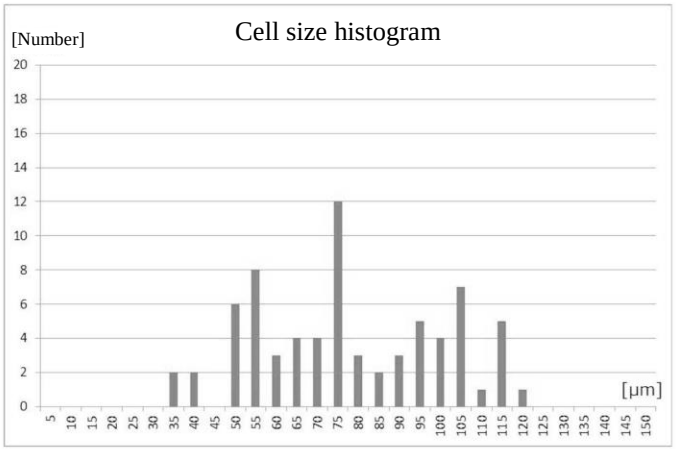

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12
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8
6
4
2
0
[µm]
5
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100
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140
145
150

Fig. 37

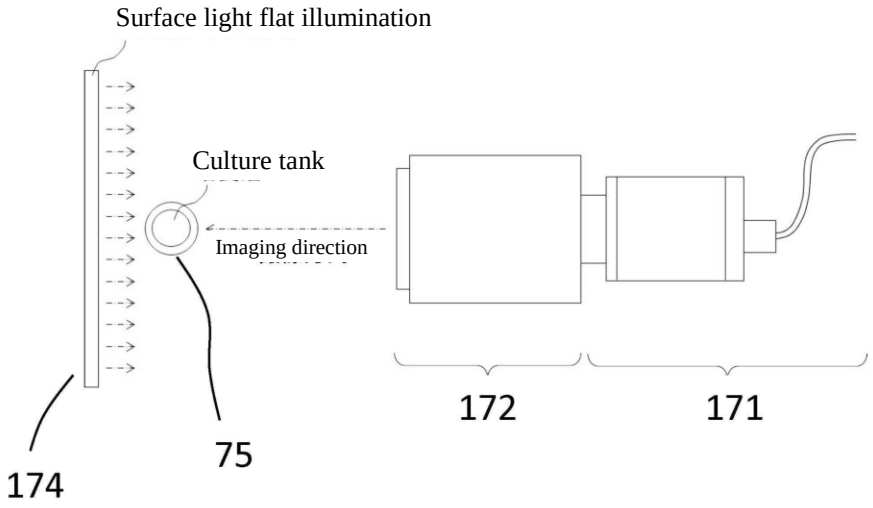

Surface light flat illumination
Culture tank
Imaging direction
172
171
174
75

Fig. 38

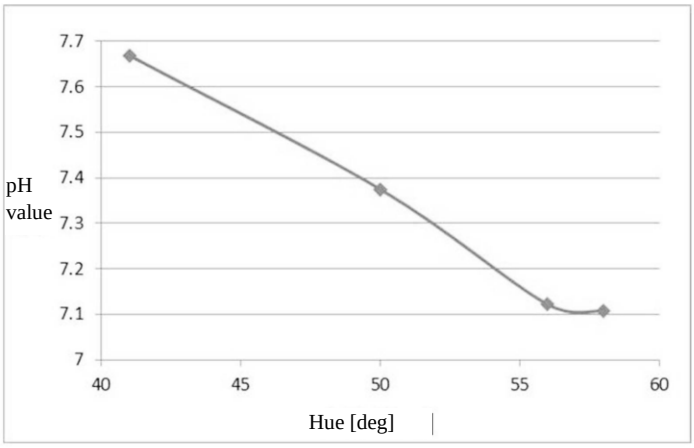


Fig. 39

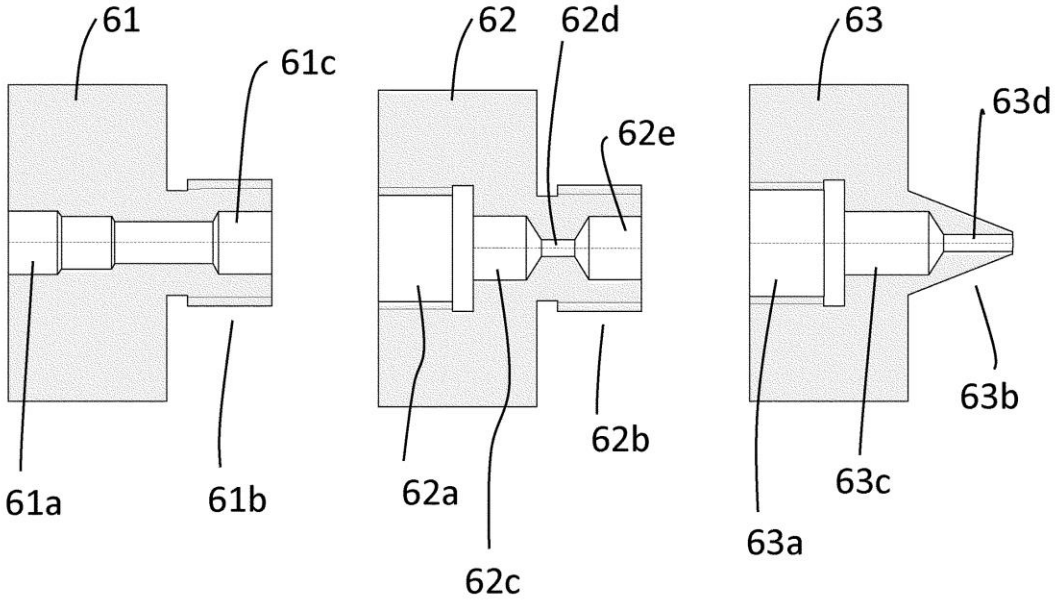


Fig. 40

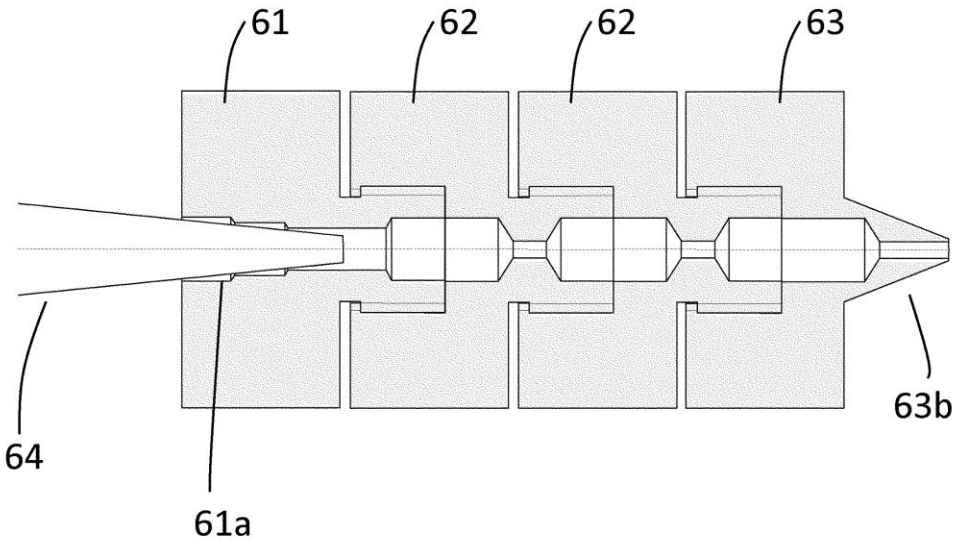


Fig. 41

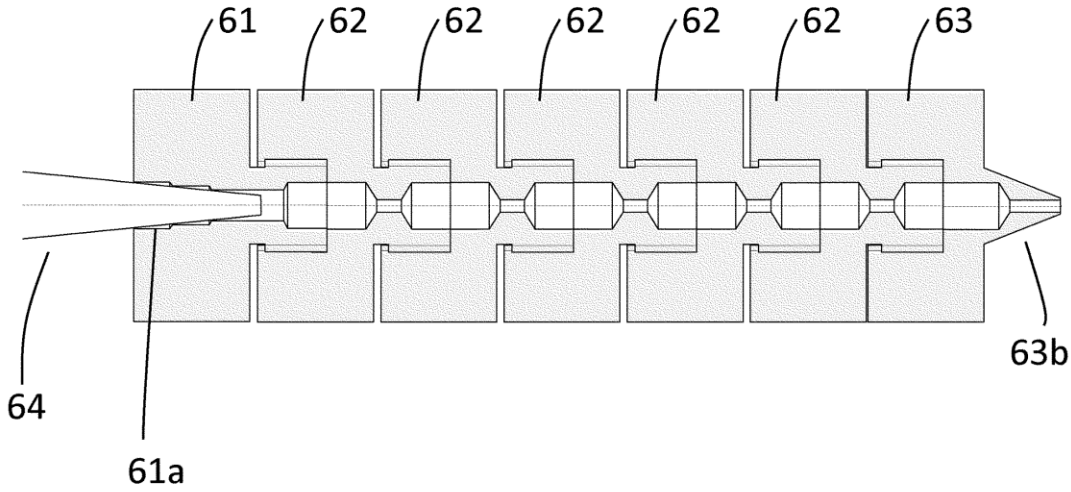


Fig. 42

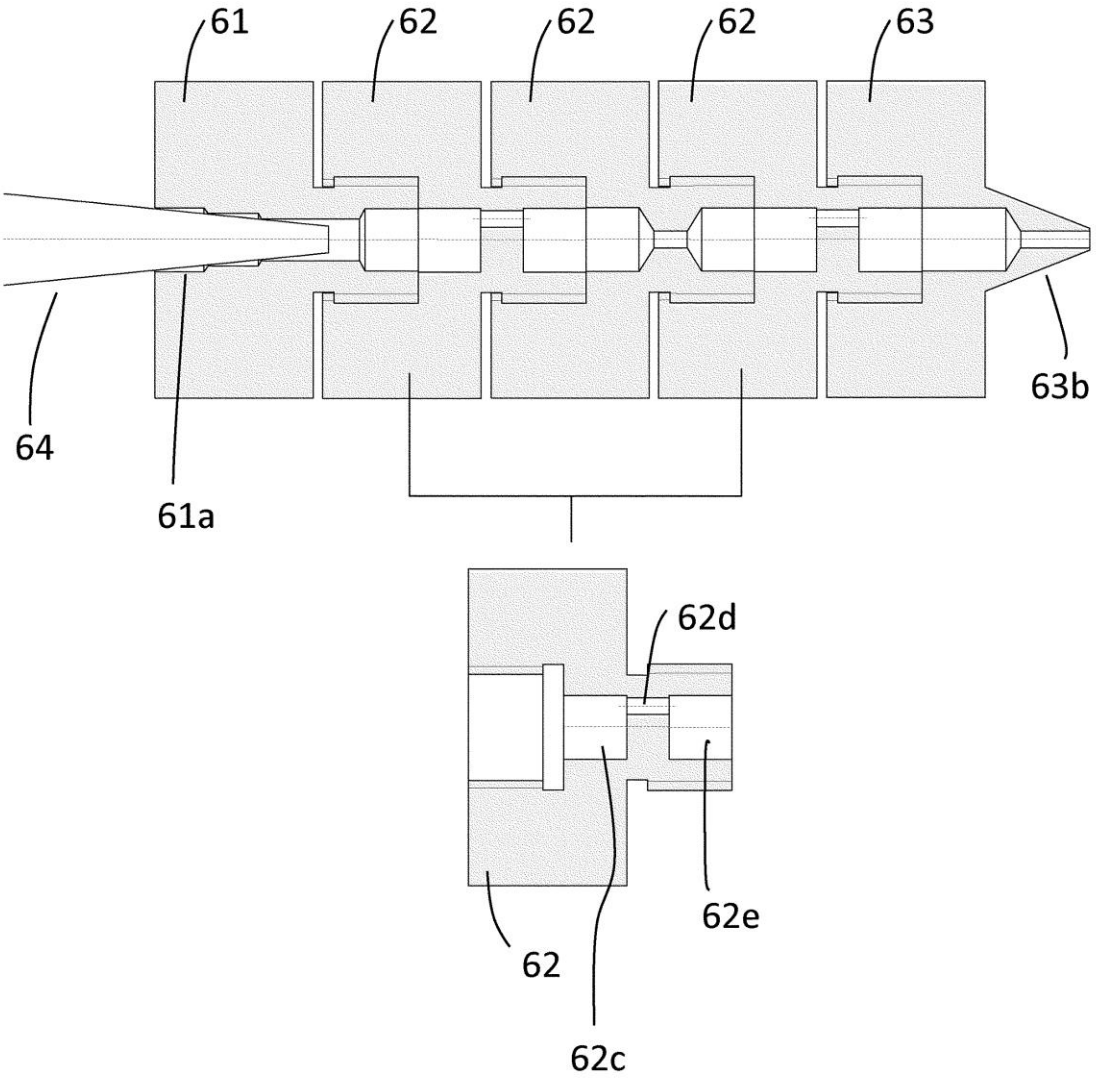


Fig. 43

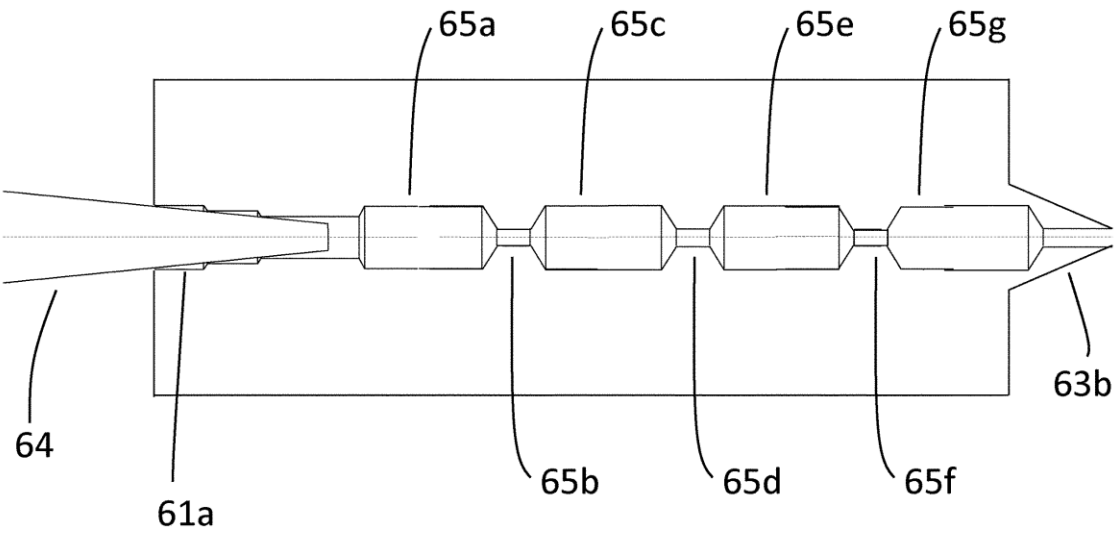


Fig. 44

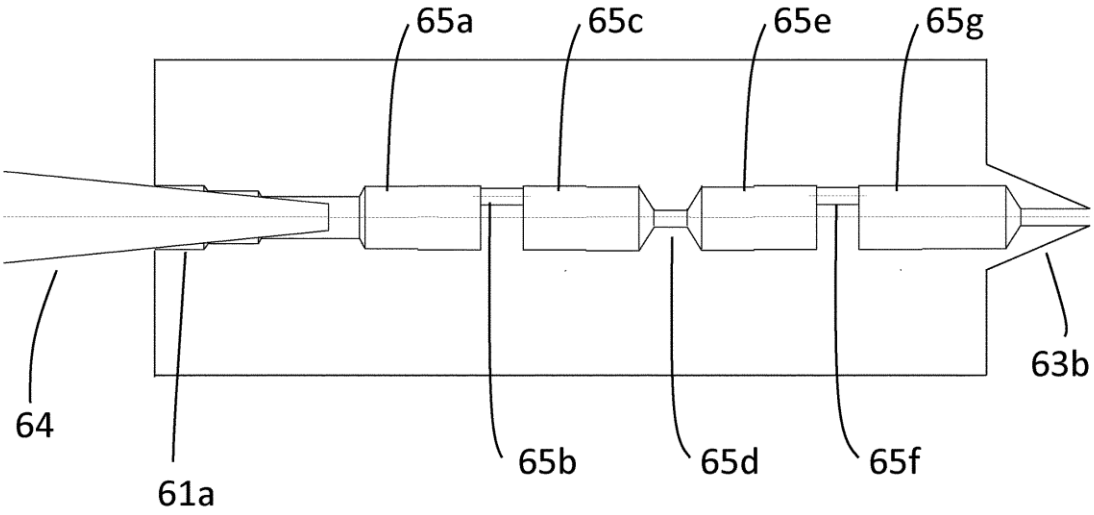


Fig. 45

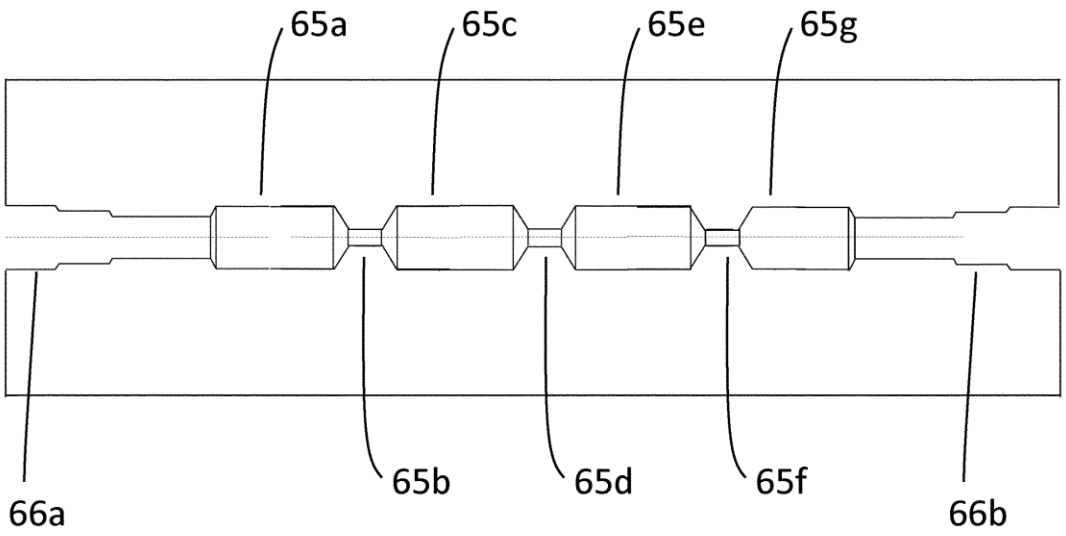


Fig. 46

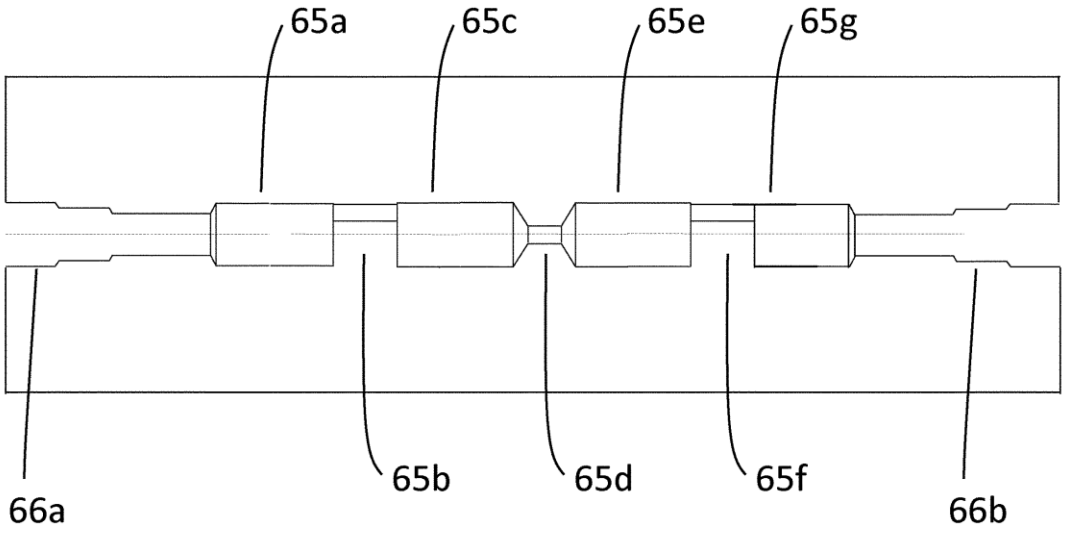


Fig. 47

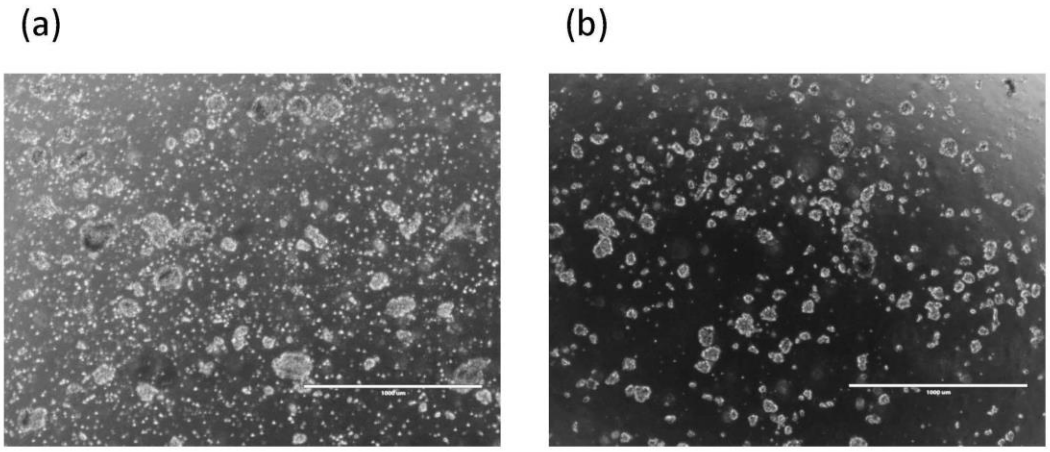


Fig. 48

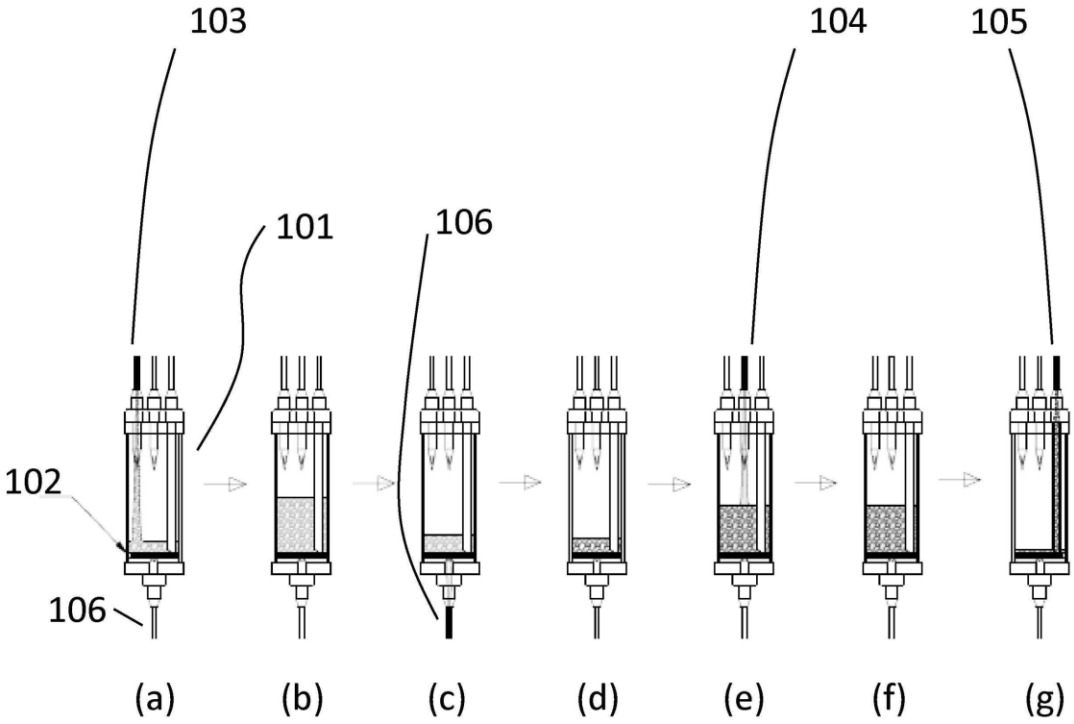


Fig. 49

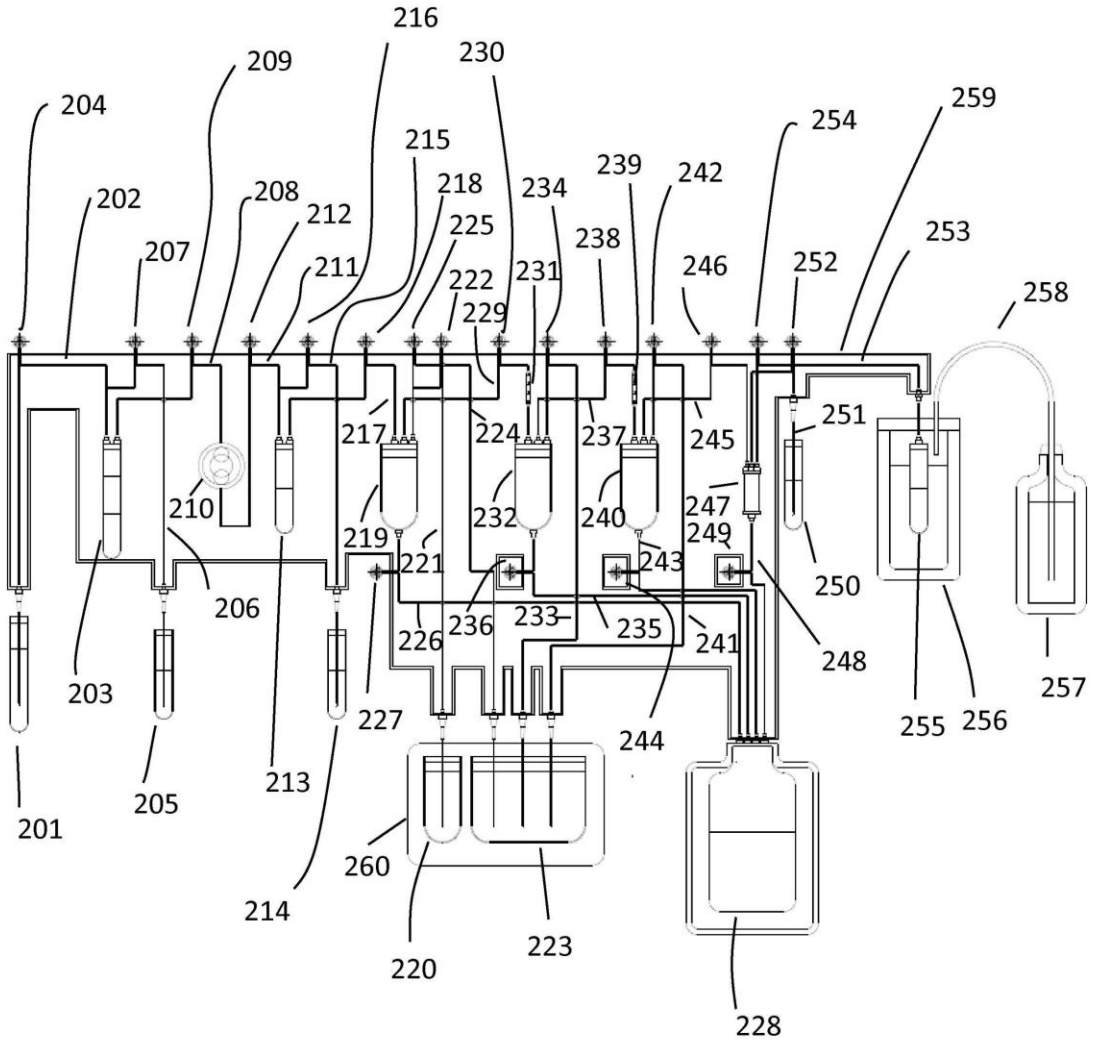

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Fig. 50

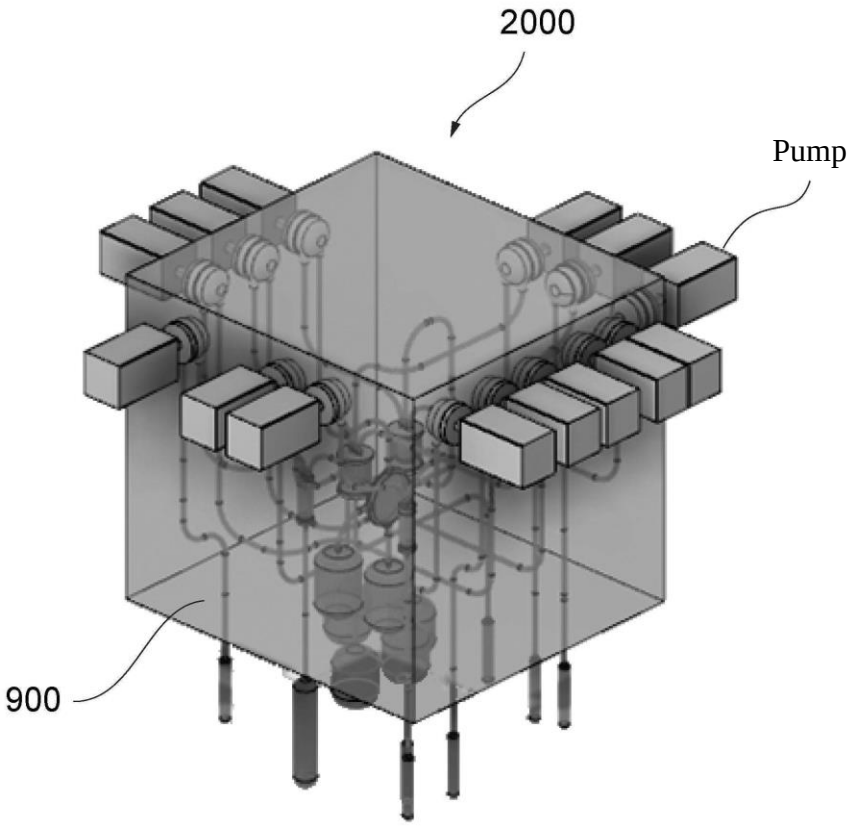


Fig. 51

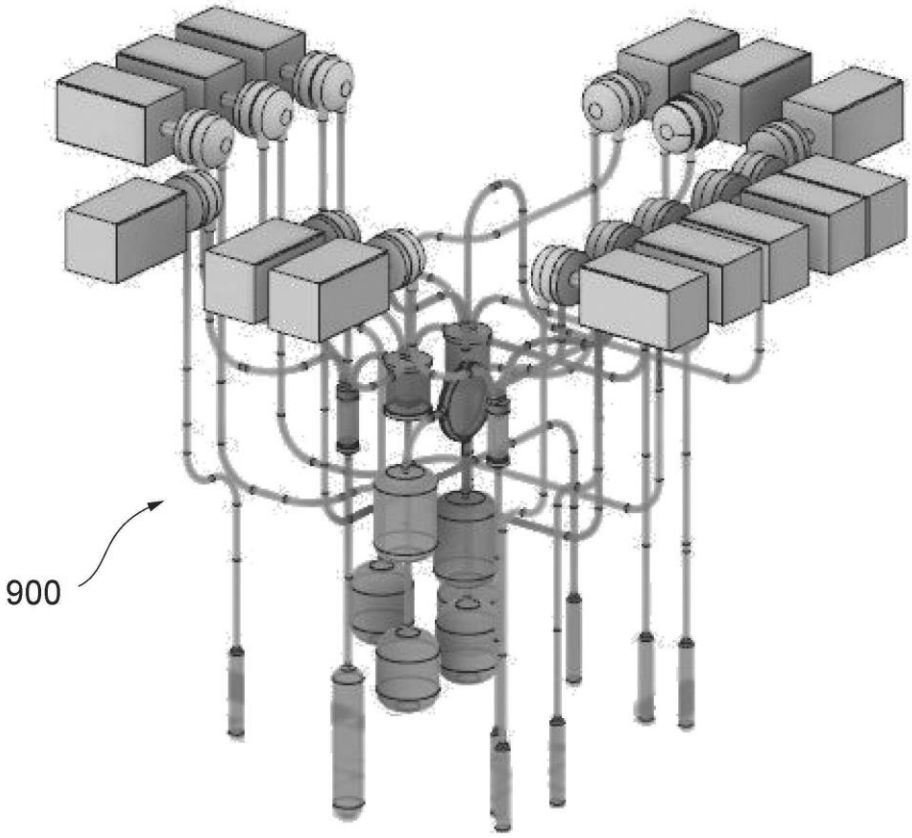


Fig. 52

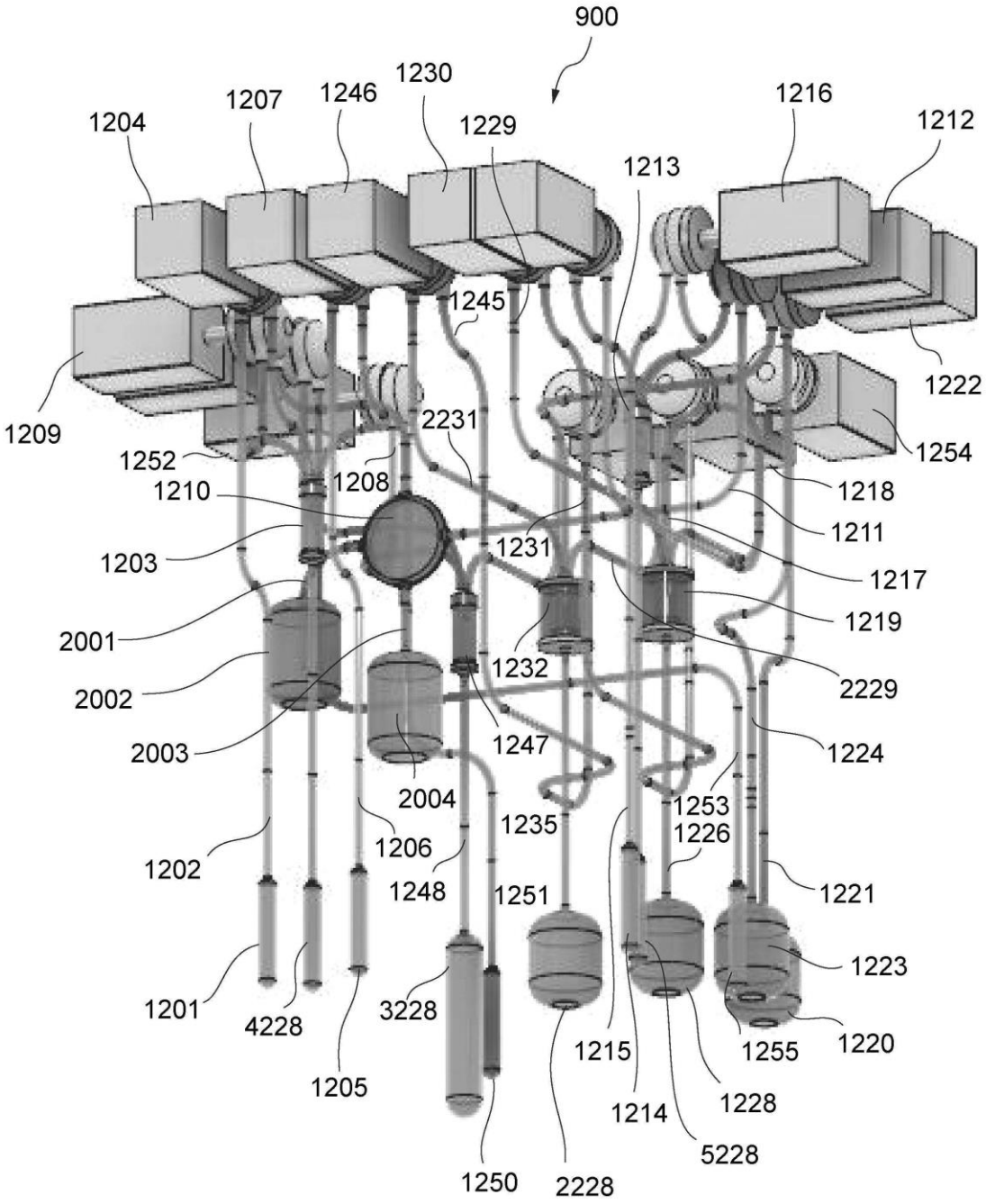

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Fig. 53

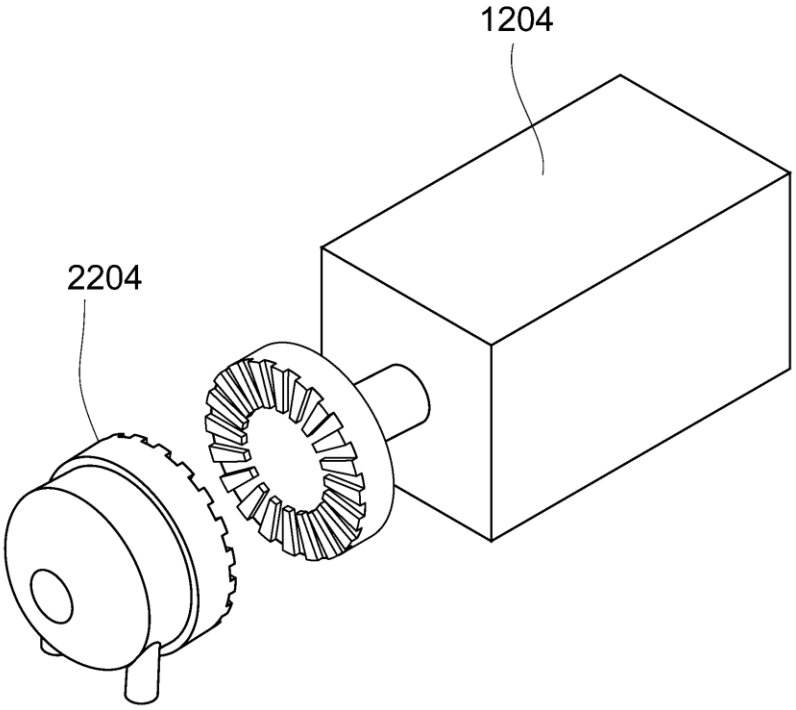


Fig. 54

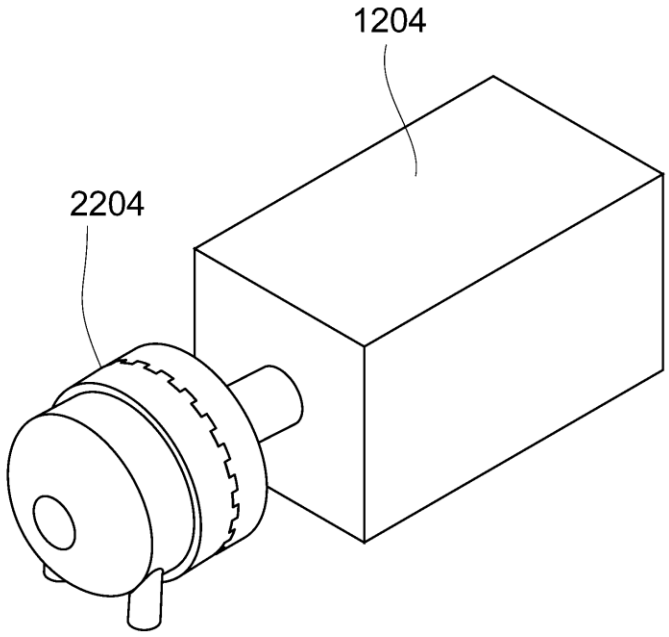


Fig. 55

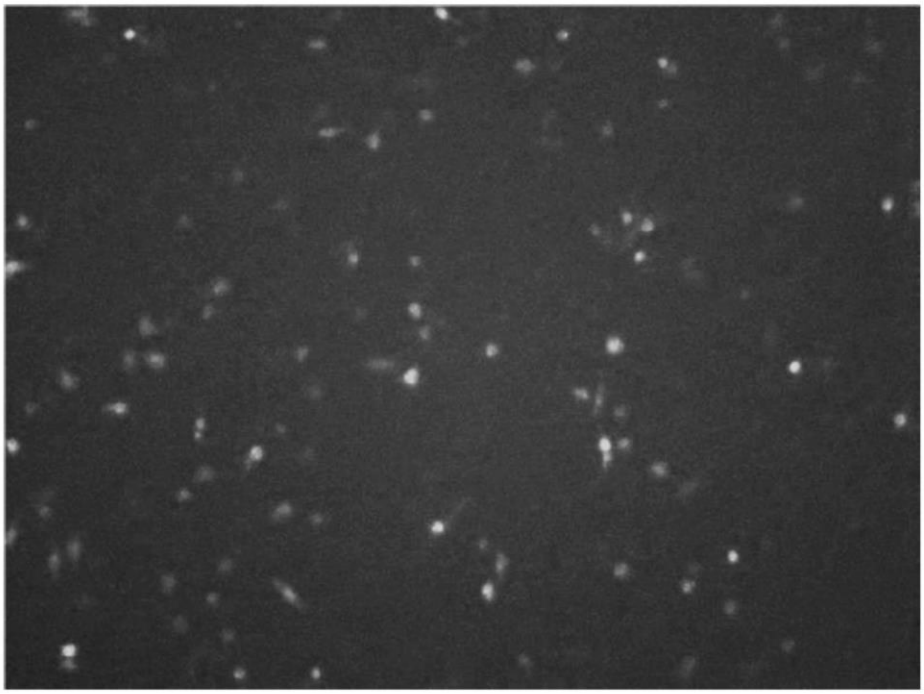


Fig. 56

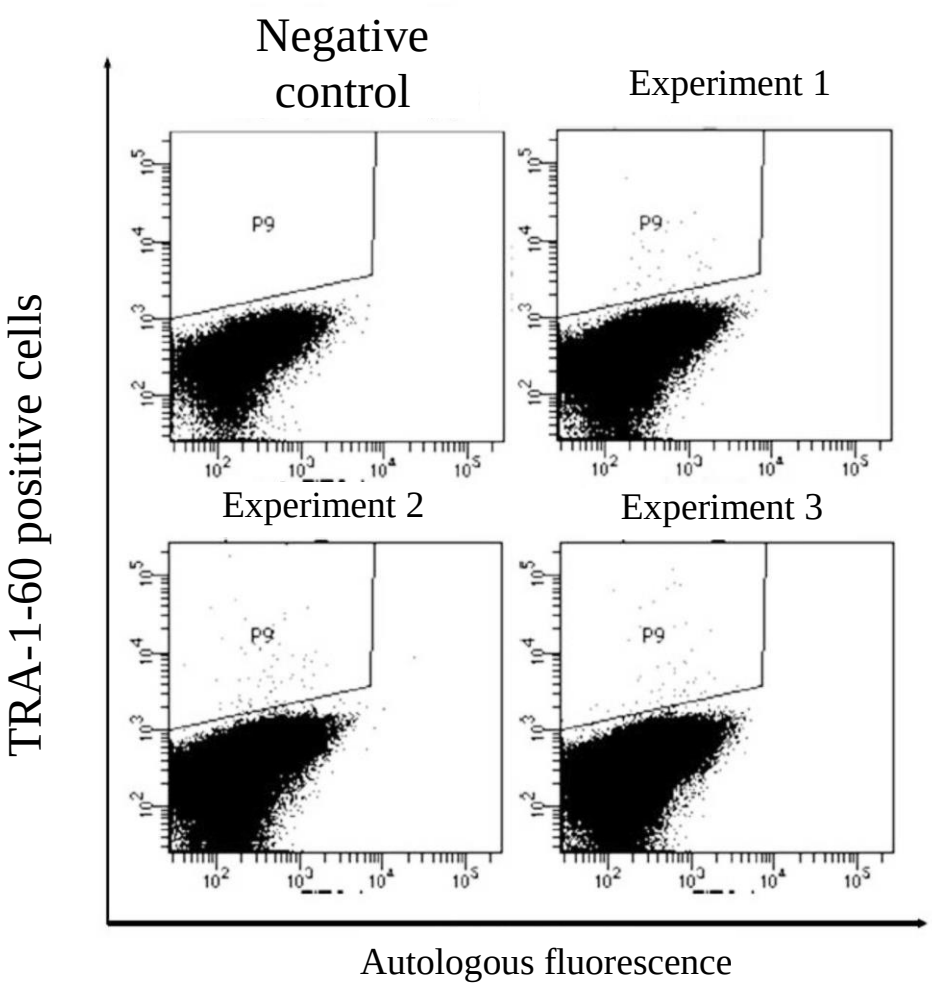

Negative control
Experiment 1
Experiment 2
Experiment 3
P9
TRA-1-60 positive cells
Autologous fluorescence

Fig. 57

(a) Suspension culture in gelled medium (b) Suspension culture in non-gelled medium

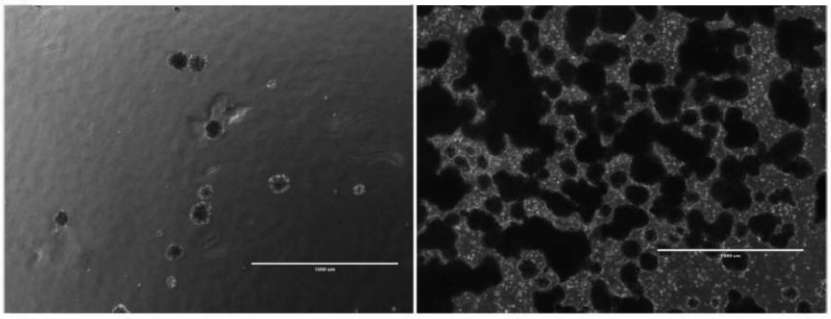


Fig. 58

(a) 1st day

(b) 9th day

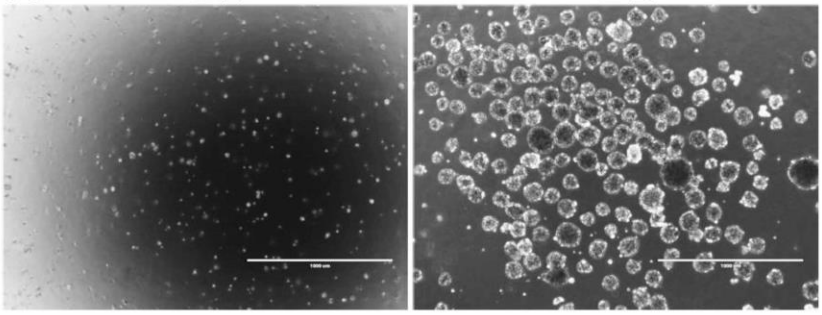


Fig. 59

(a) Colonies before reseeding onto feeder cells

(b) Colonies 3 days after reseeding onto feeder cells

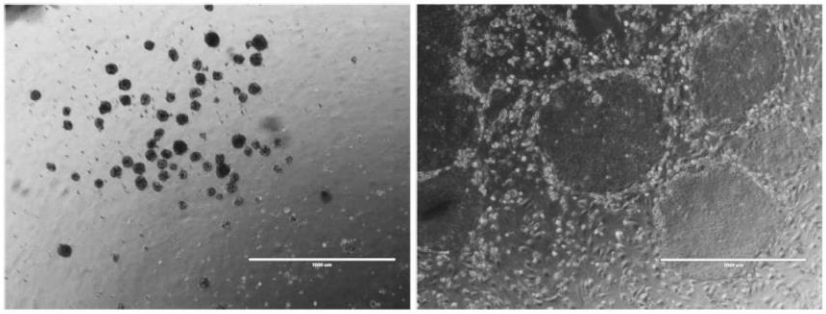


Fig. 60

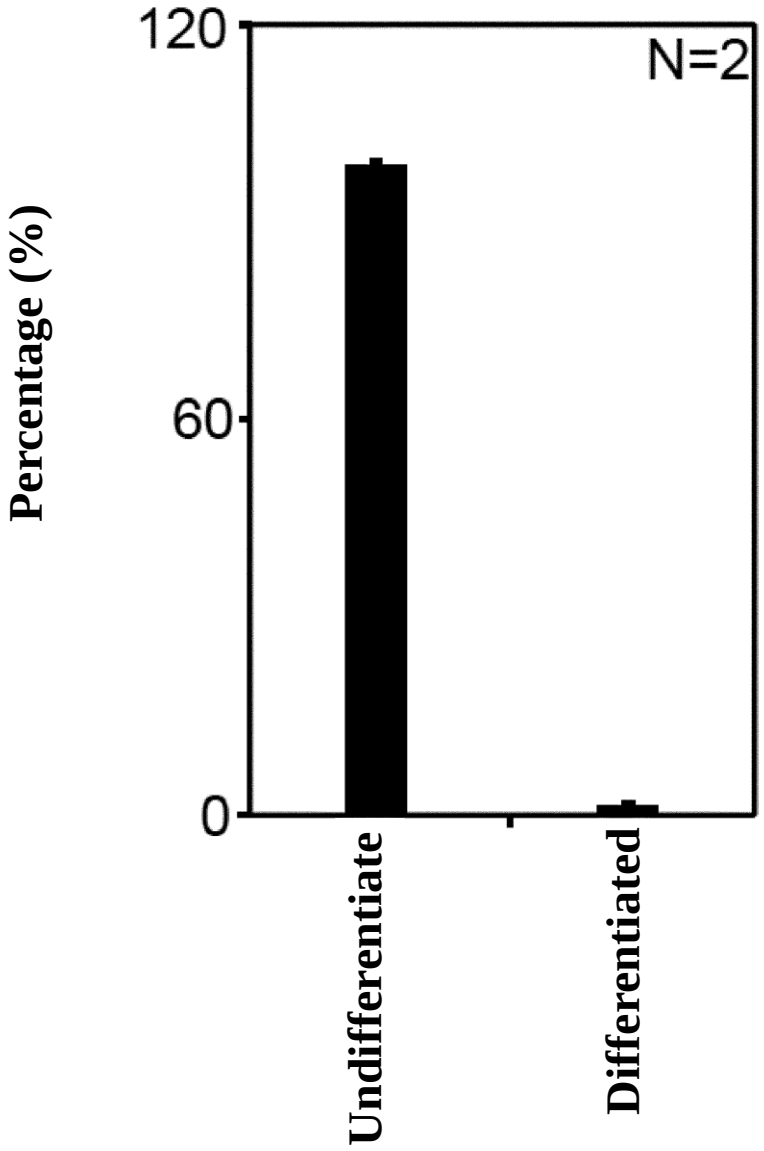


Fig. 61

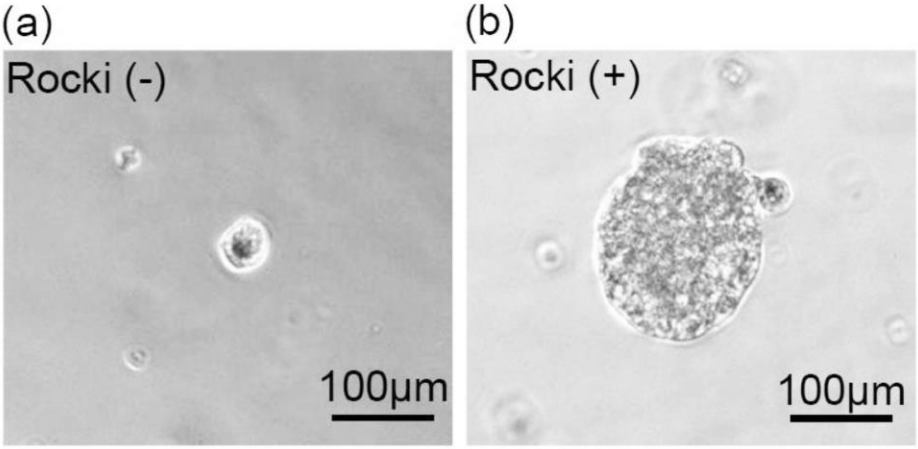


Fig. 62

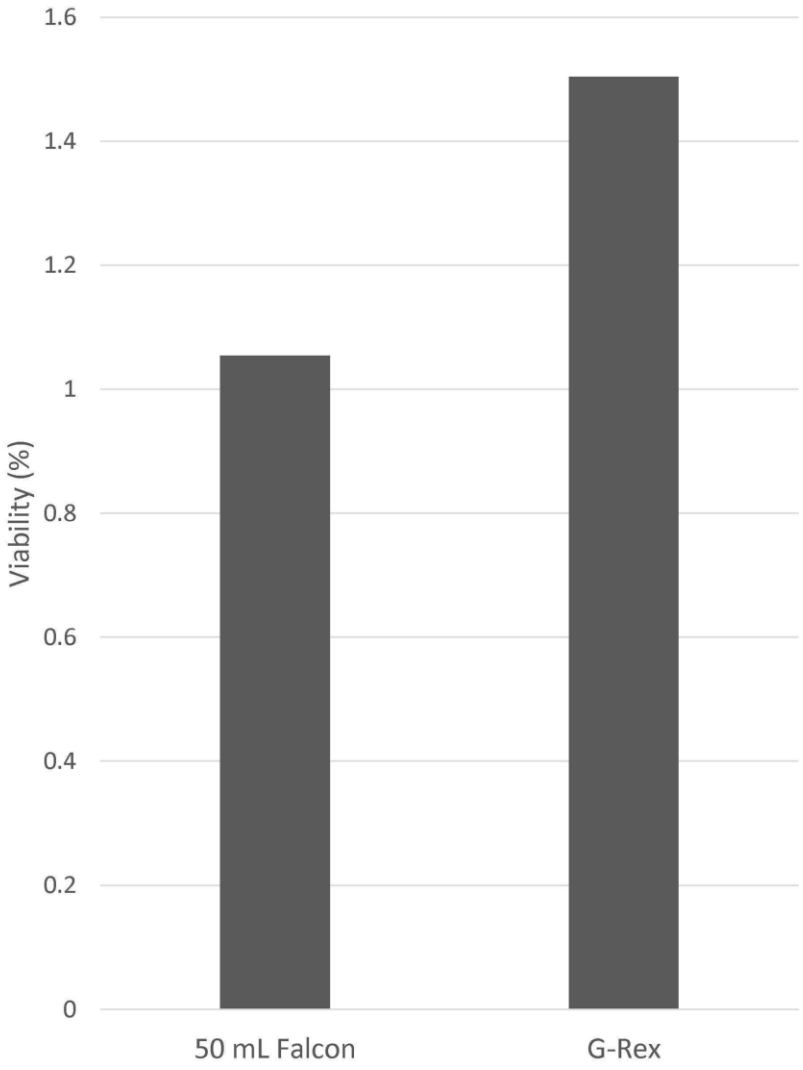
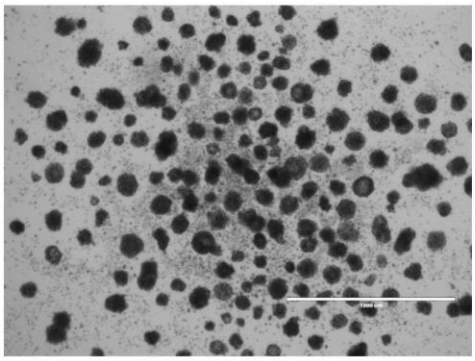
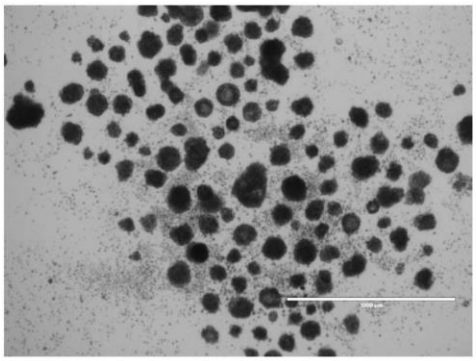


Fig. 63

(a) Dialysis tube, medium exchange



(b) Dialysis tube, no medium exchange



(c) No dialysis tube, no medium exchange

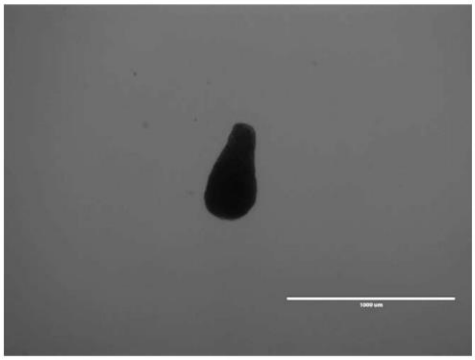
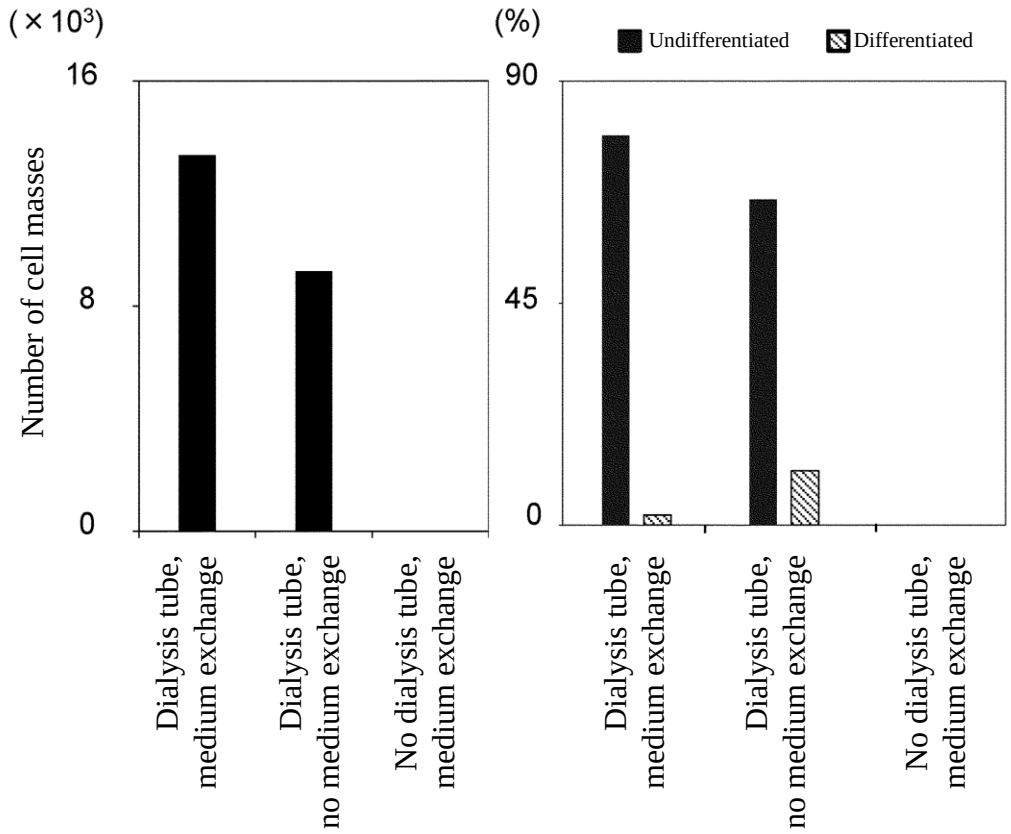


Fig. 64


(×10³)
16
8
0
Number of cell masses
Dialysis tube, medium exchange
Dialysis tube, no medium exchange
No dialysis tube, medium exchange
(%)
Undifferentiated
Differentiated
90
45
0
Dialysis tube, medium exchange
Dialysis tube, no medium exchange
No dialysis tube, medium exchange