

Fig.1

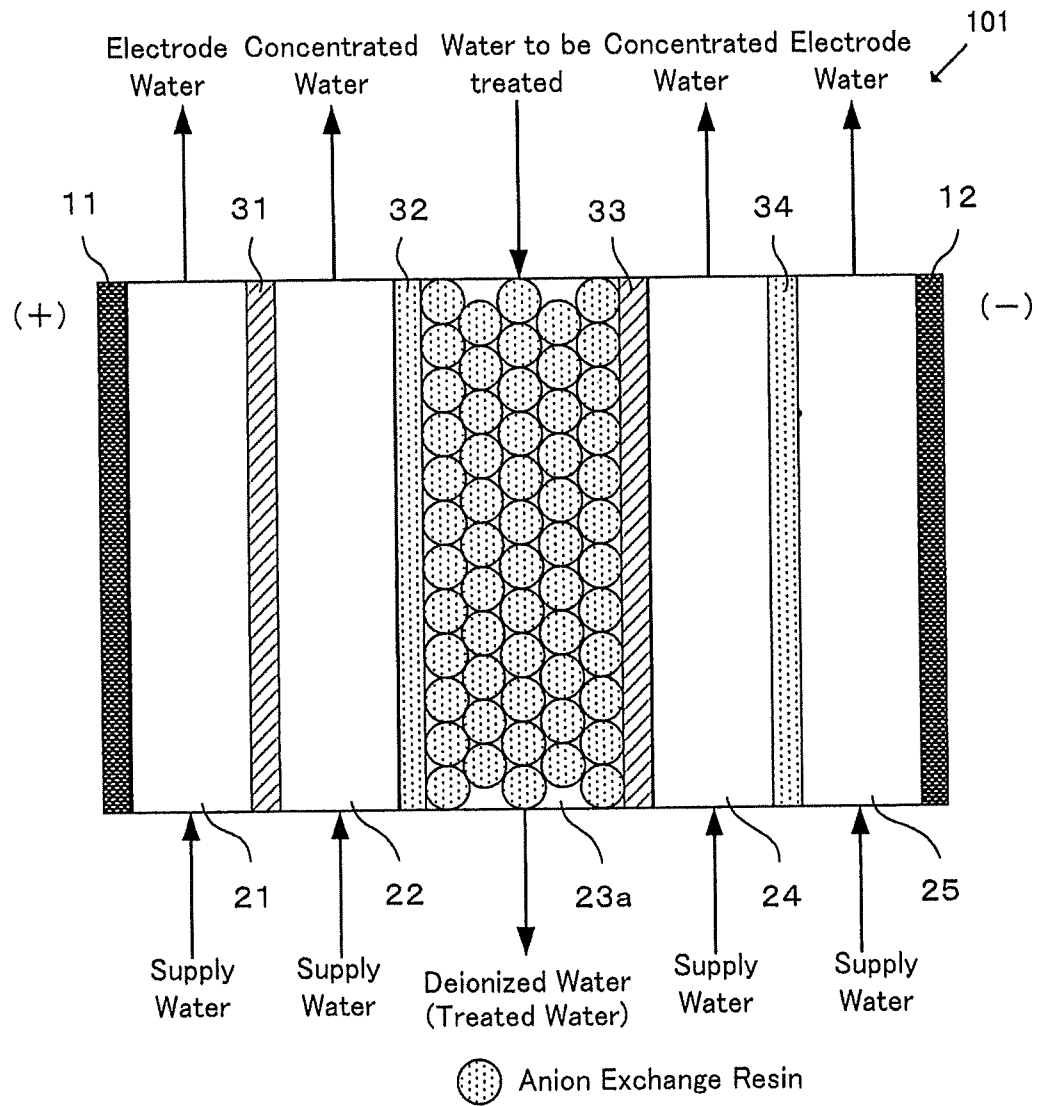


Fig.2

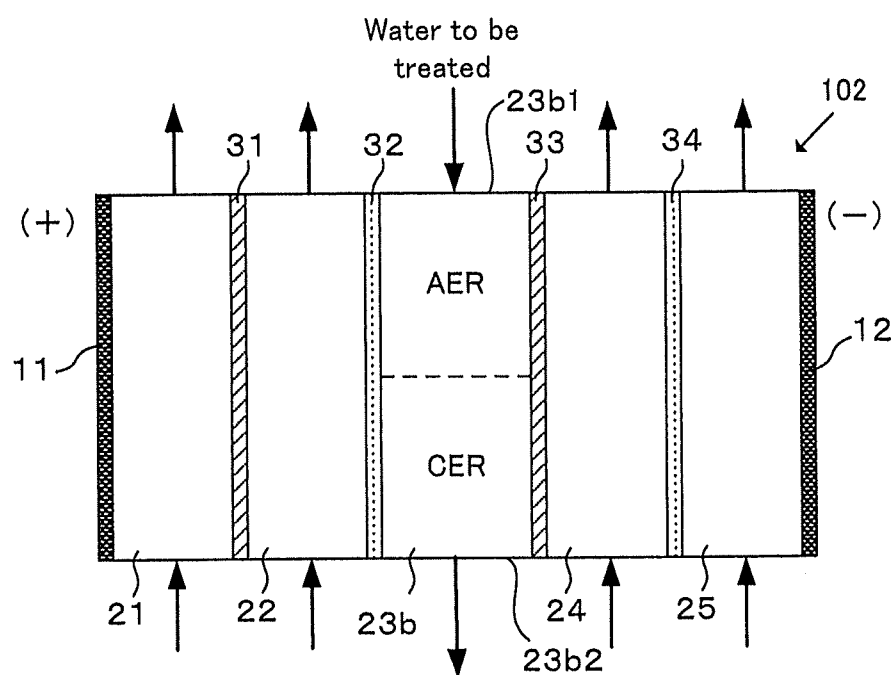
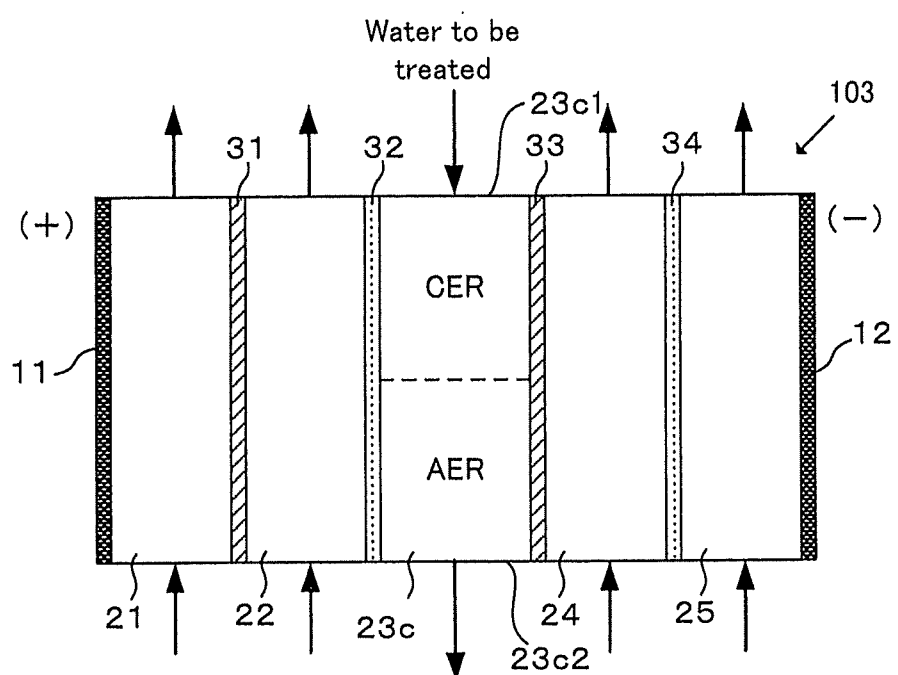


Fig.3



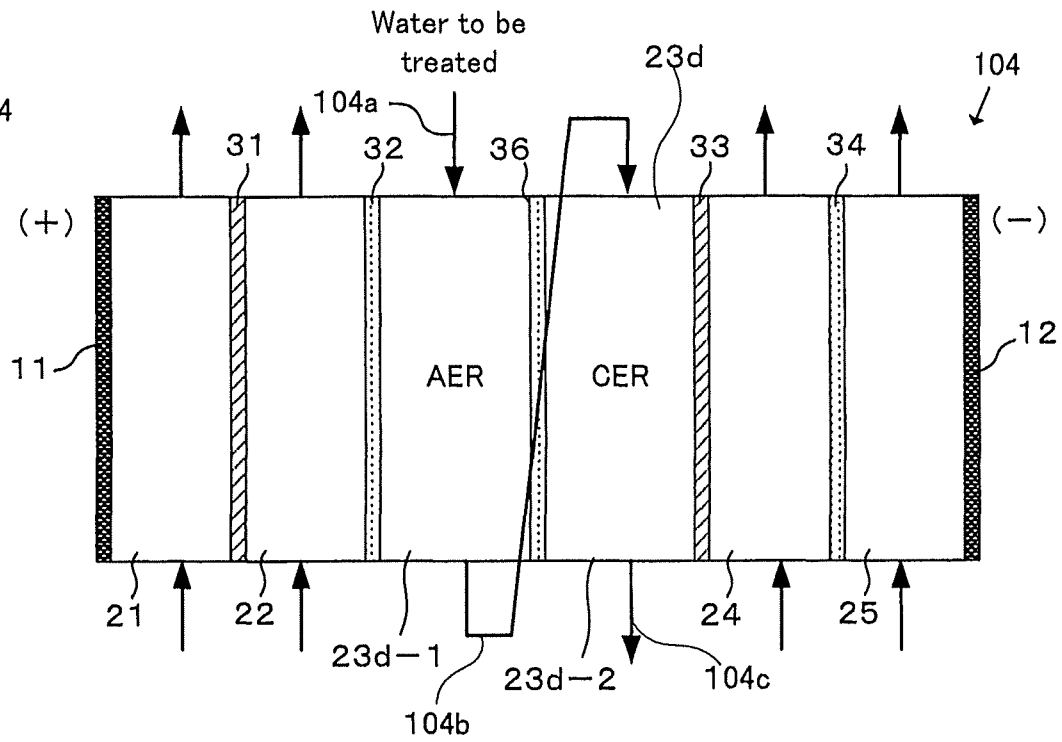


Fig.7

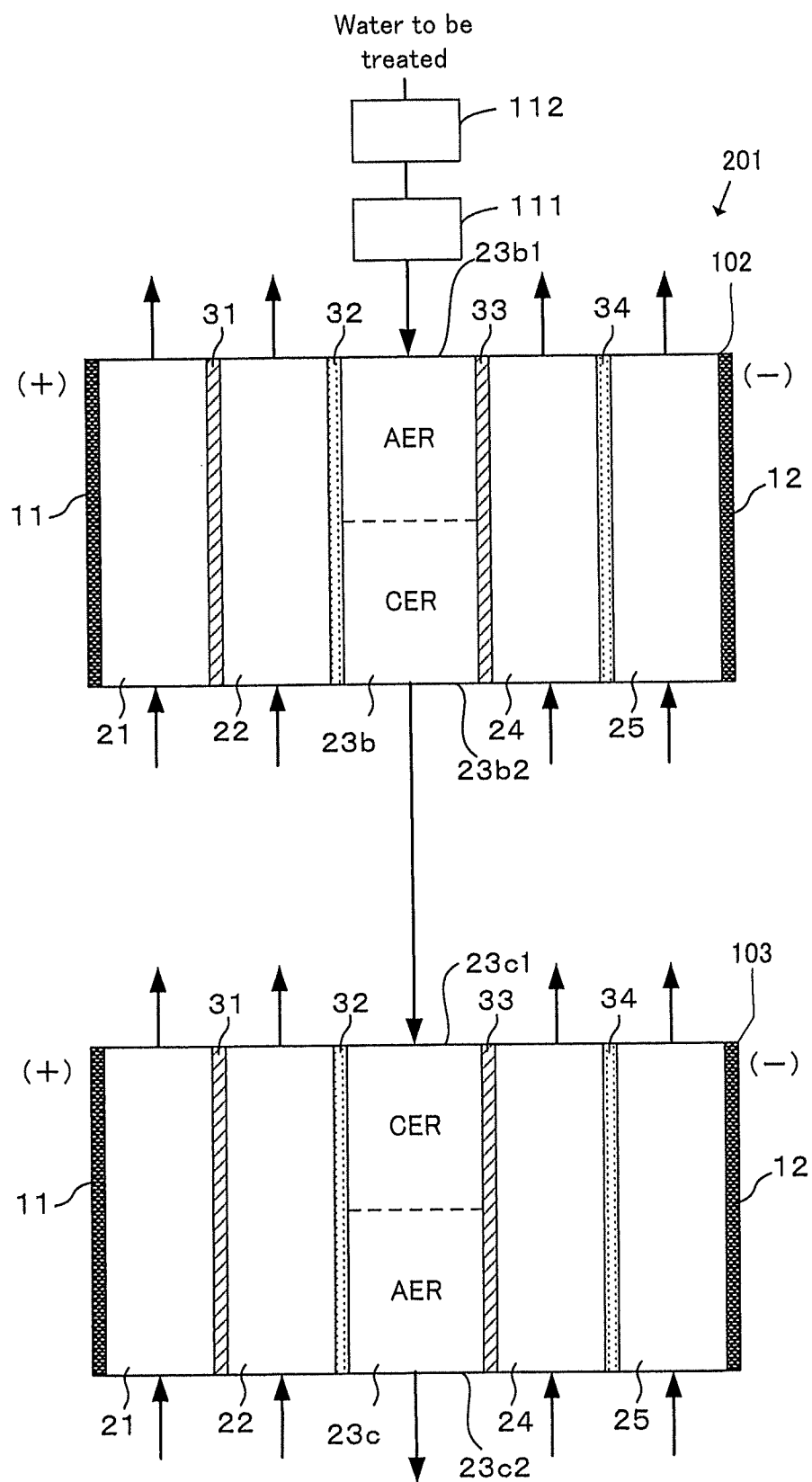


Fig.8

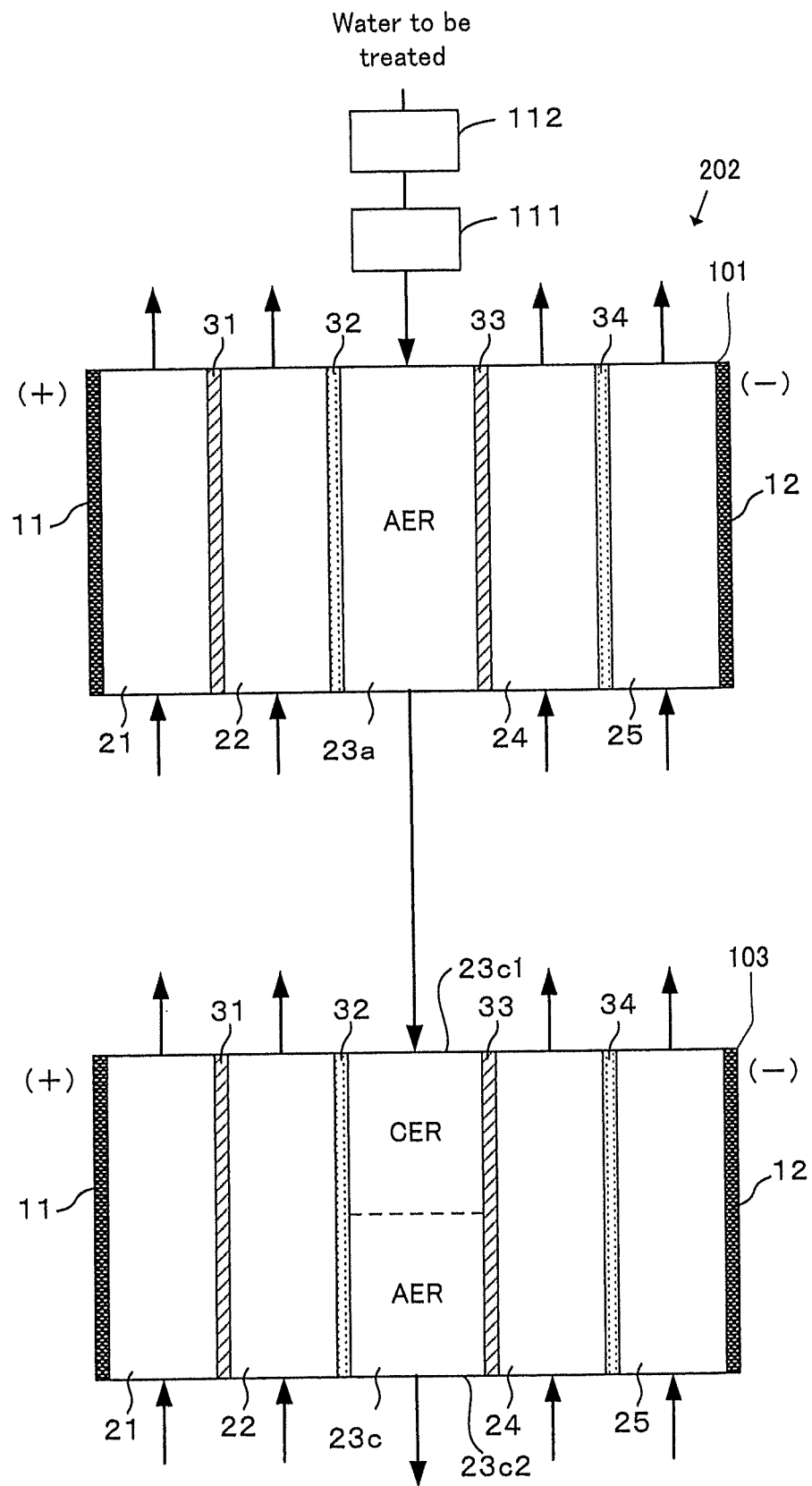


Fig.9

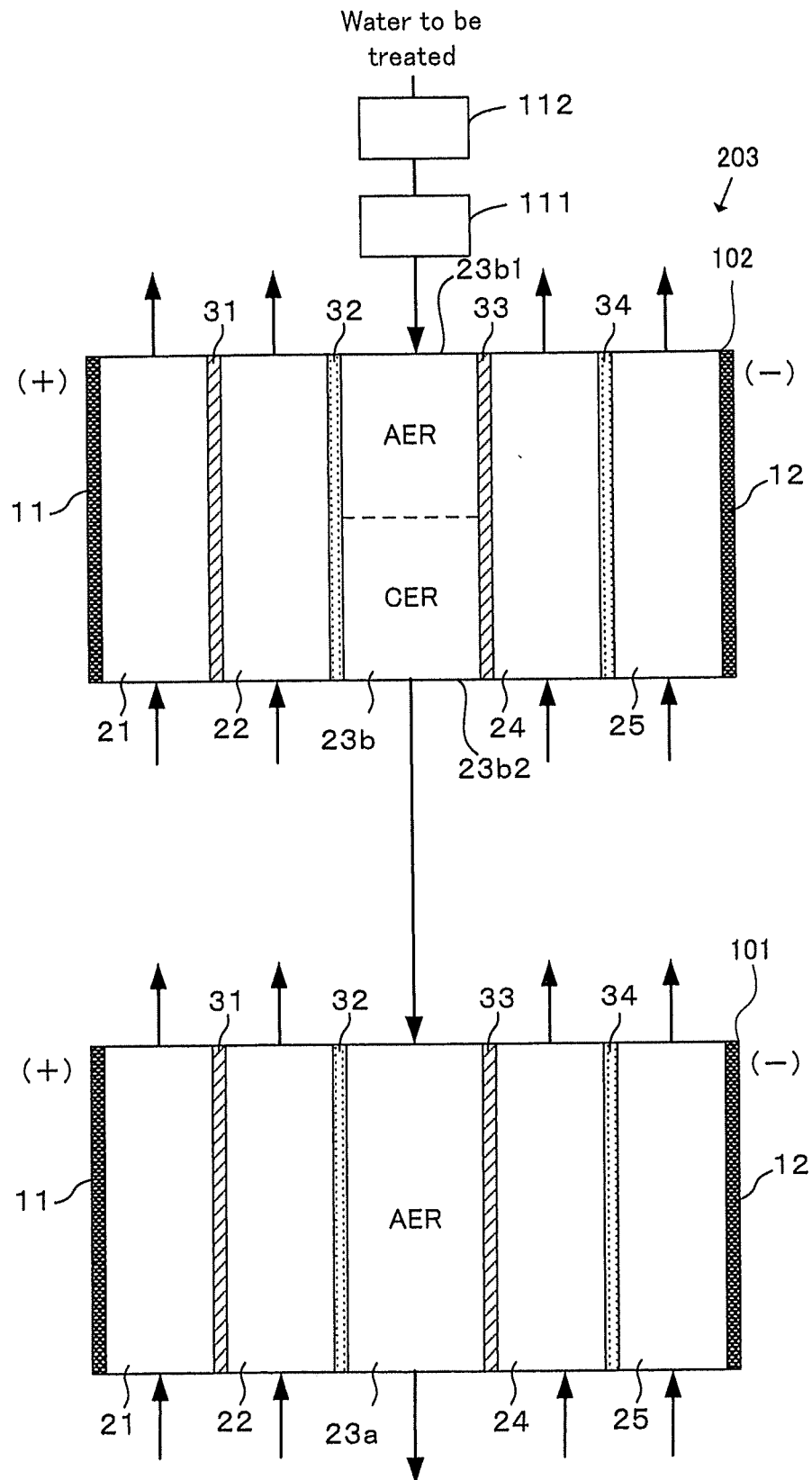


Fig.10

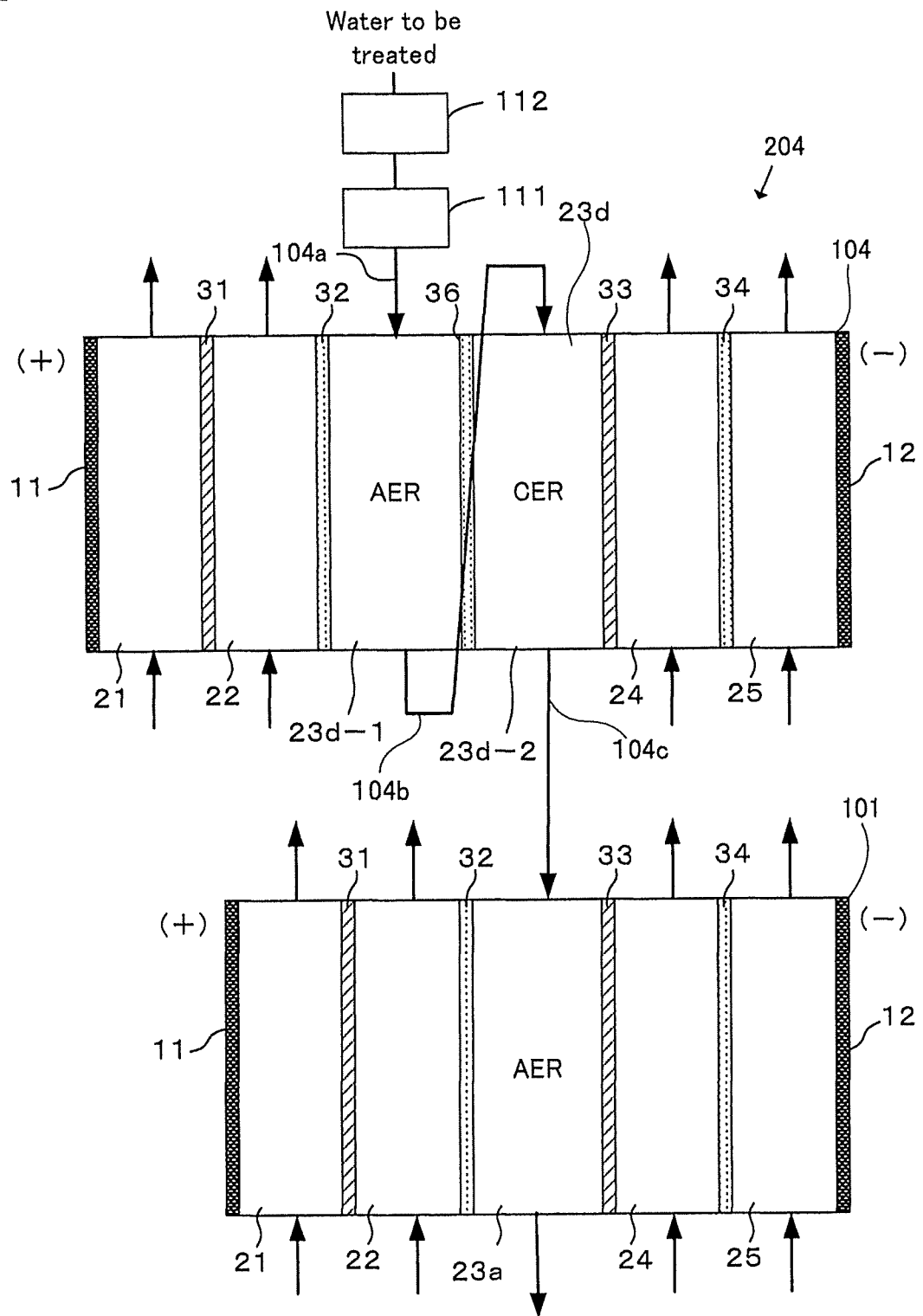


Fig.11

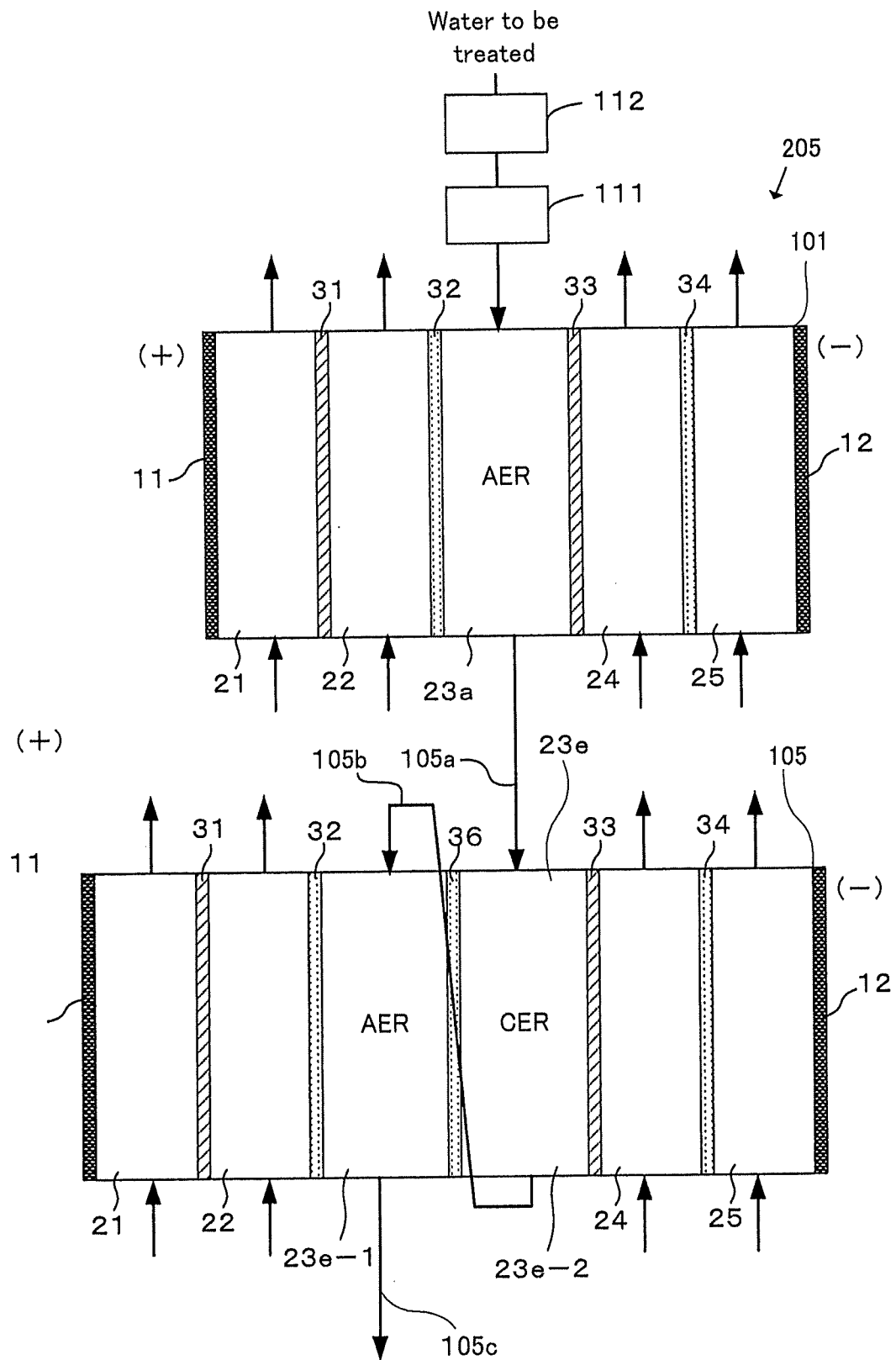


Fig.12

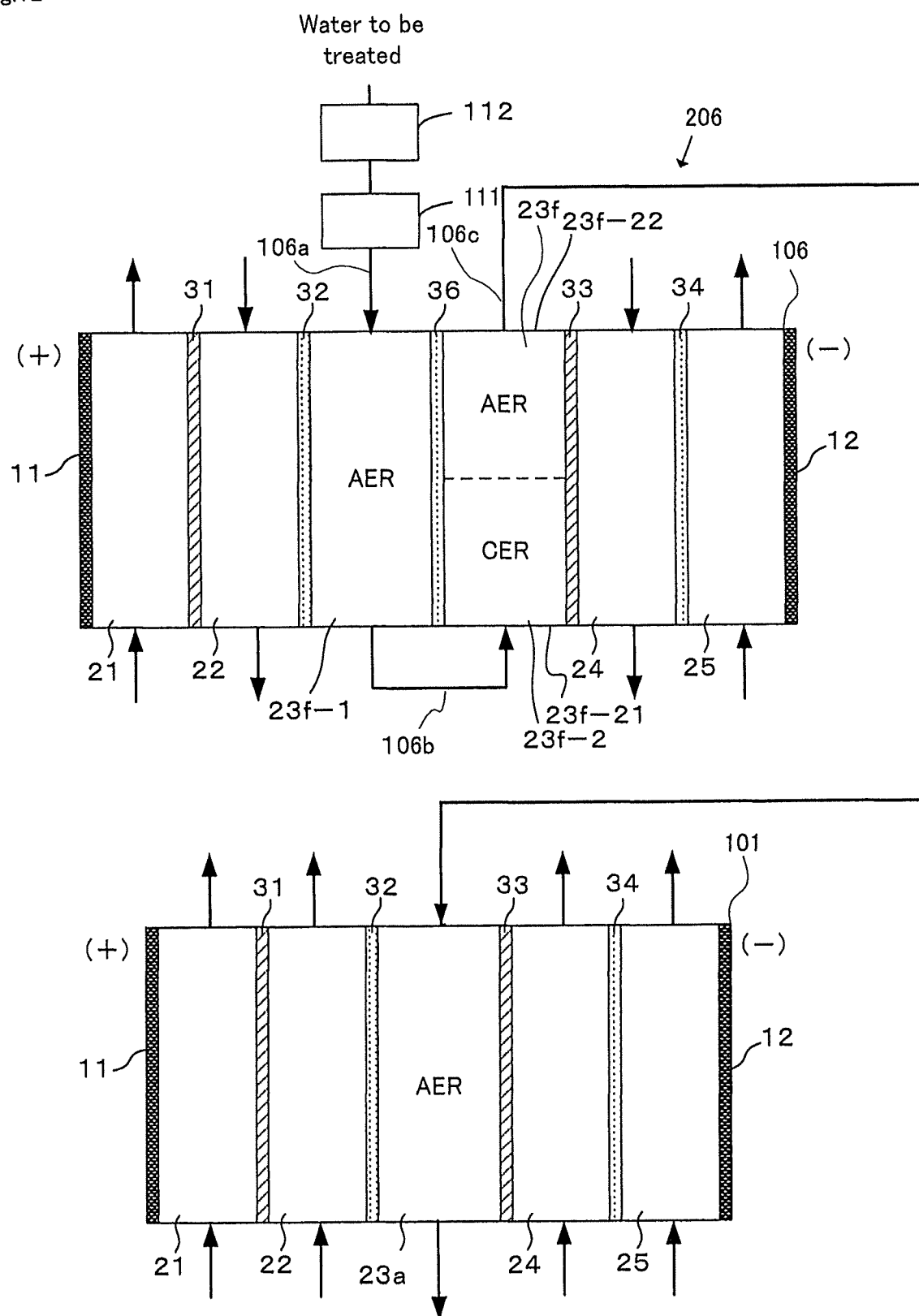


Fig.13

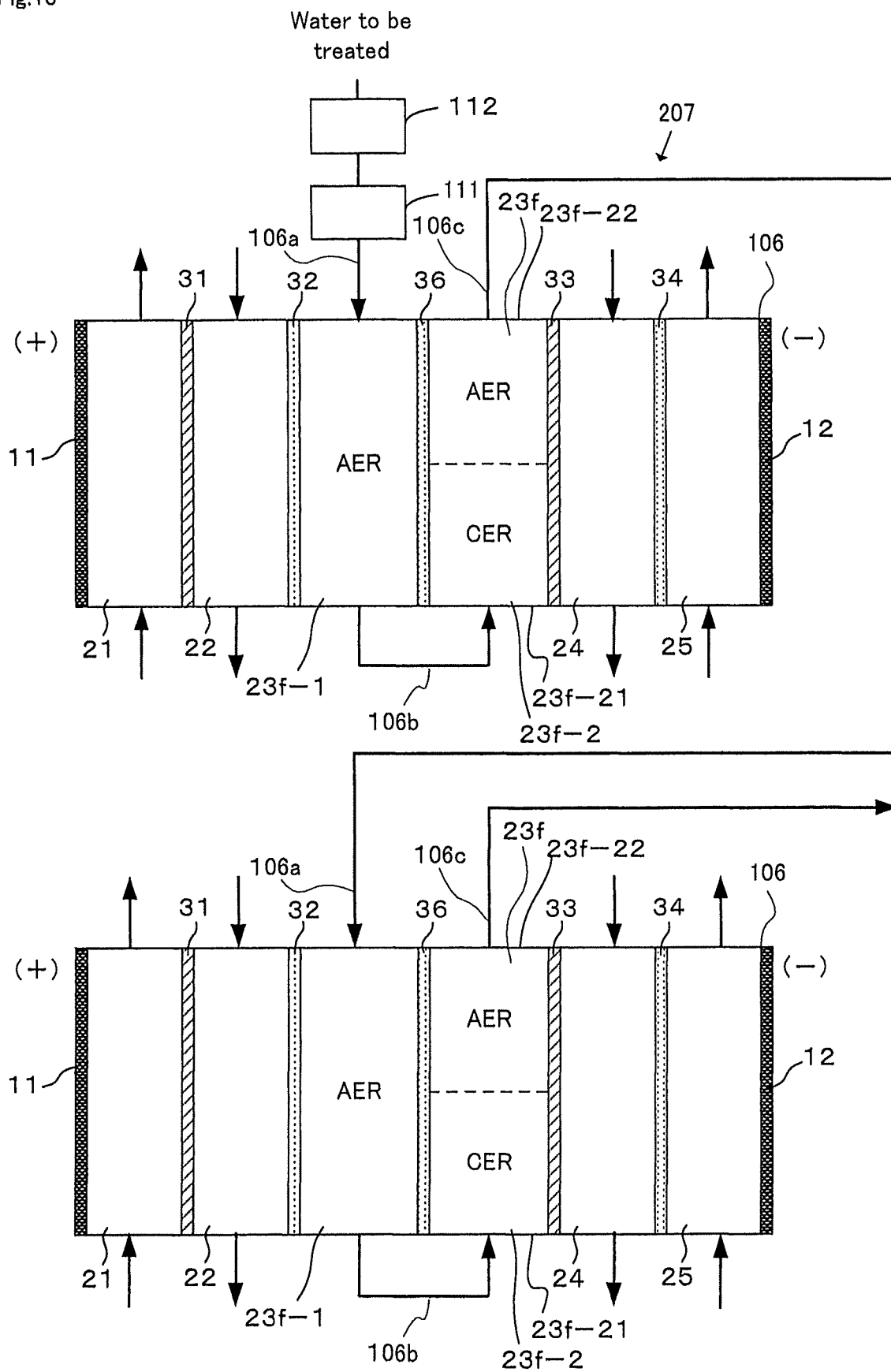


Fig.14

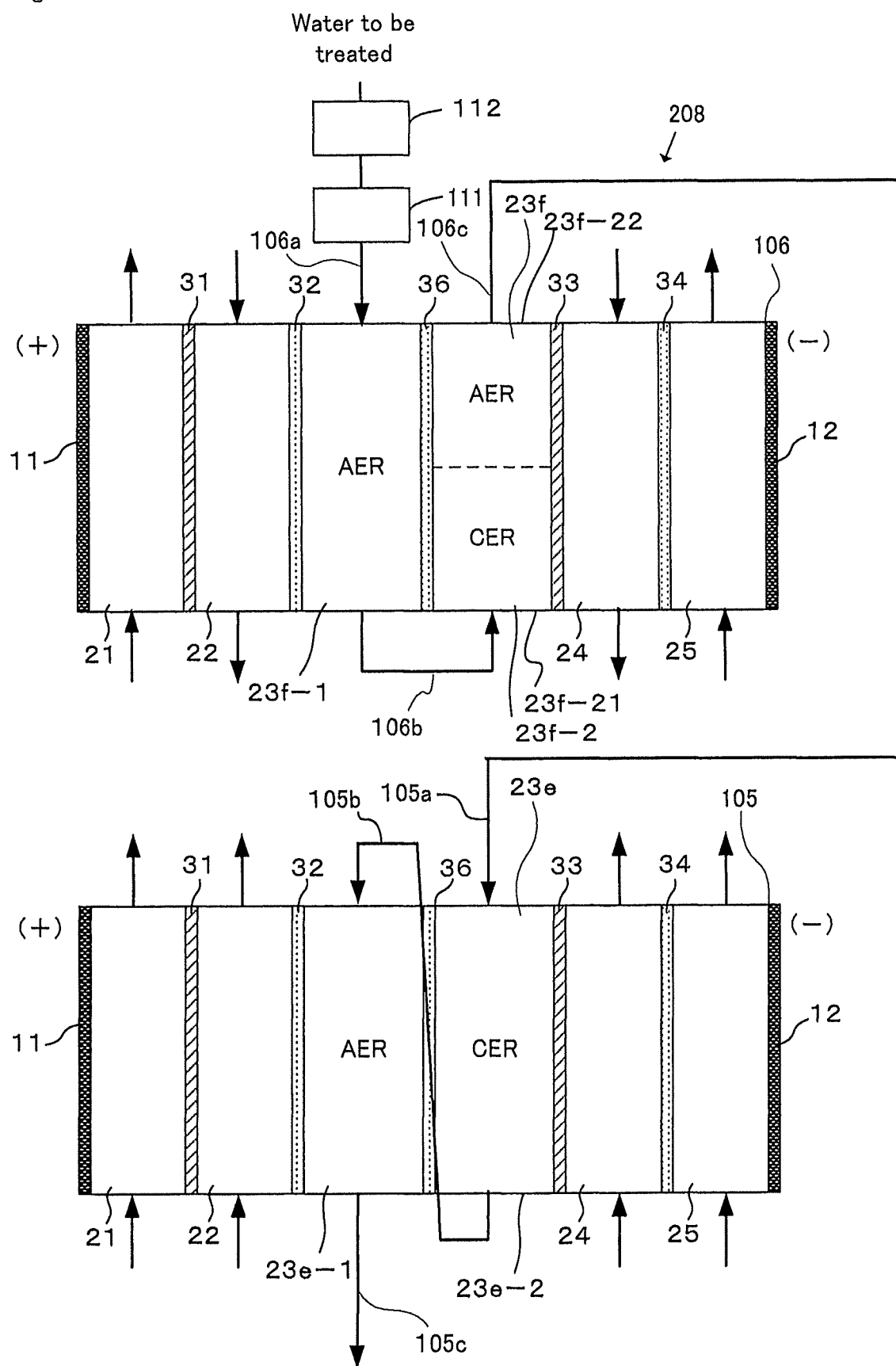


Fig.15

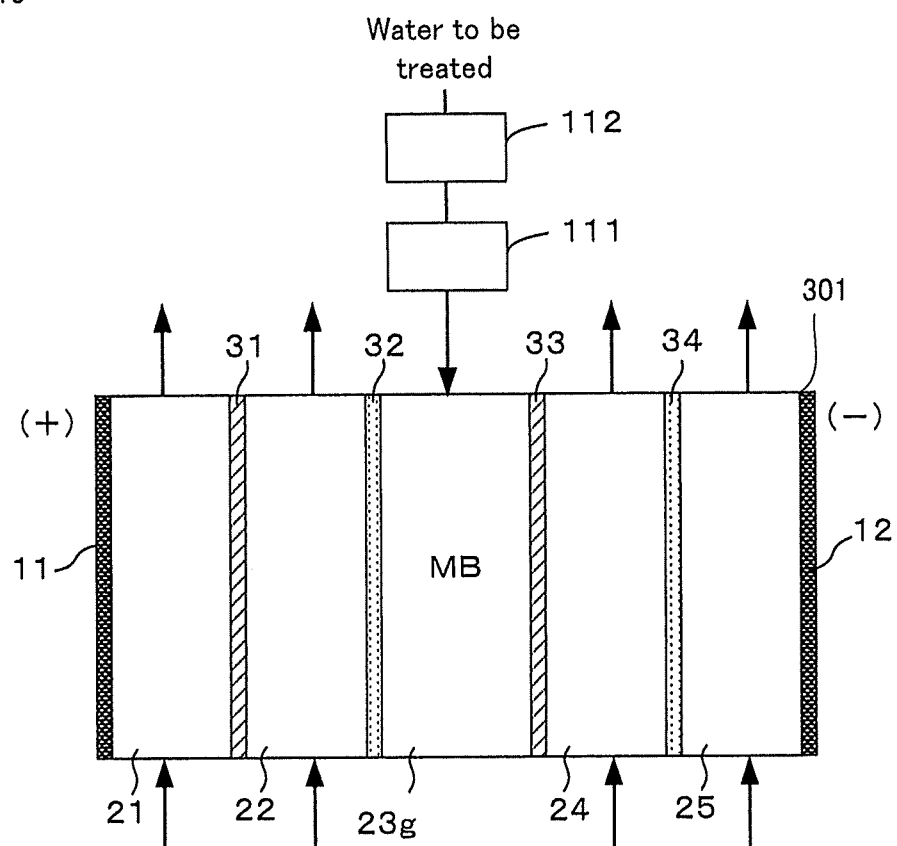


Fig.16

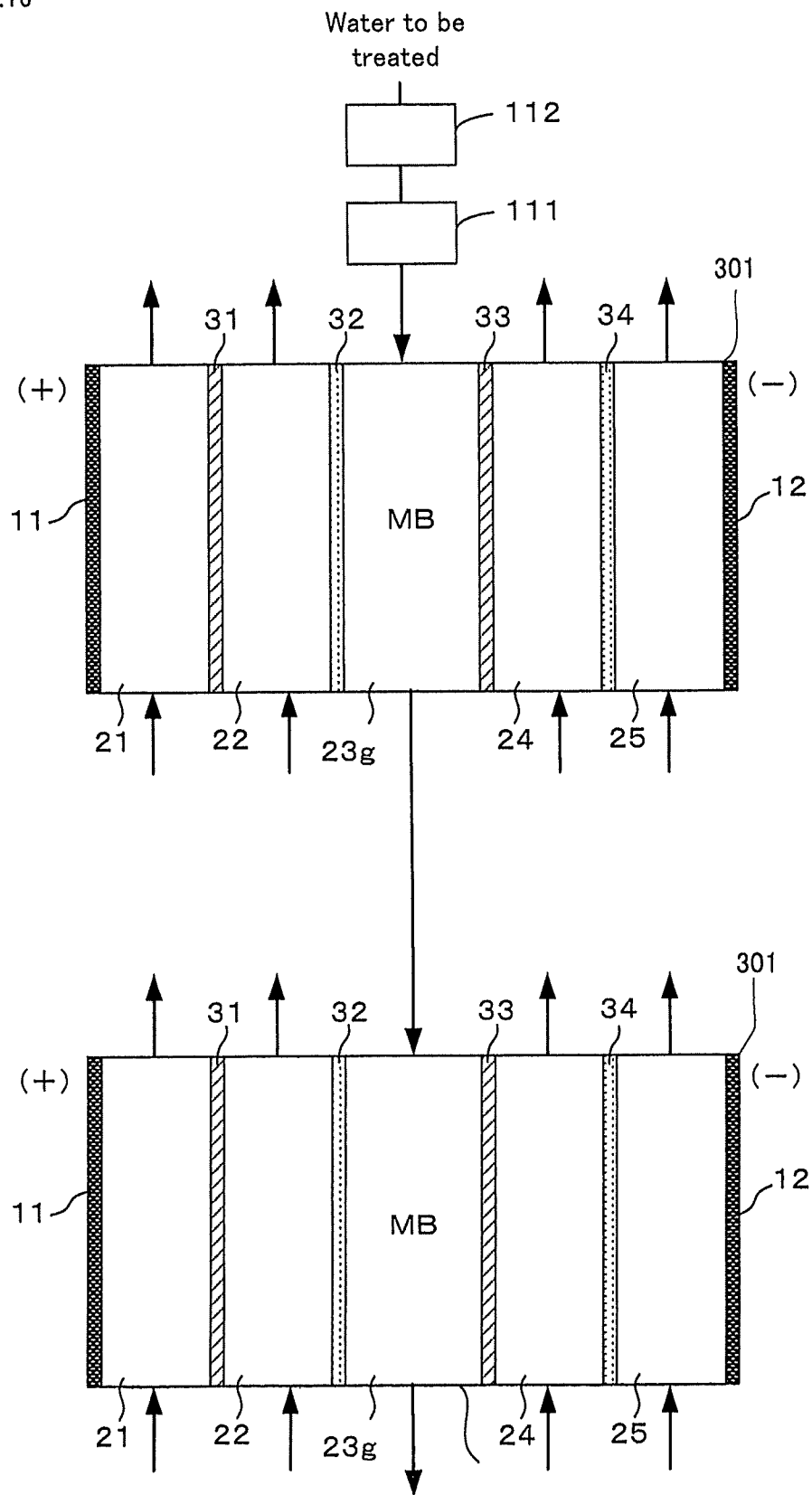


Fig.17

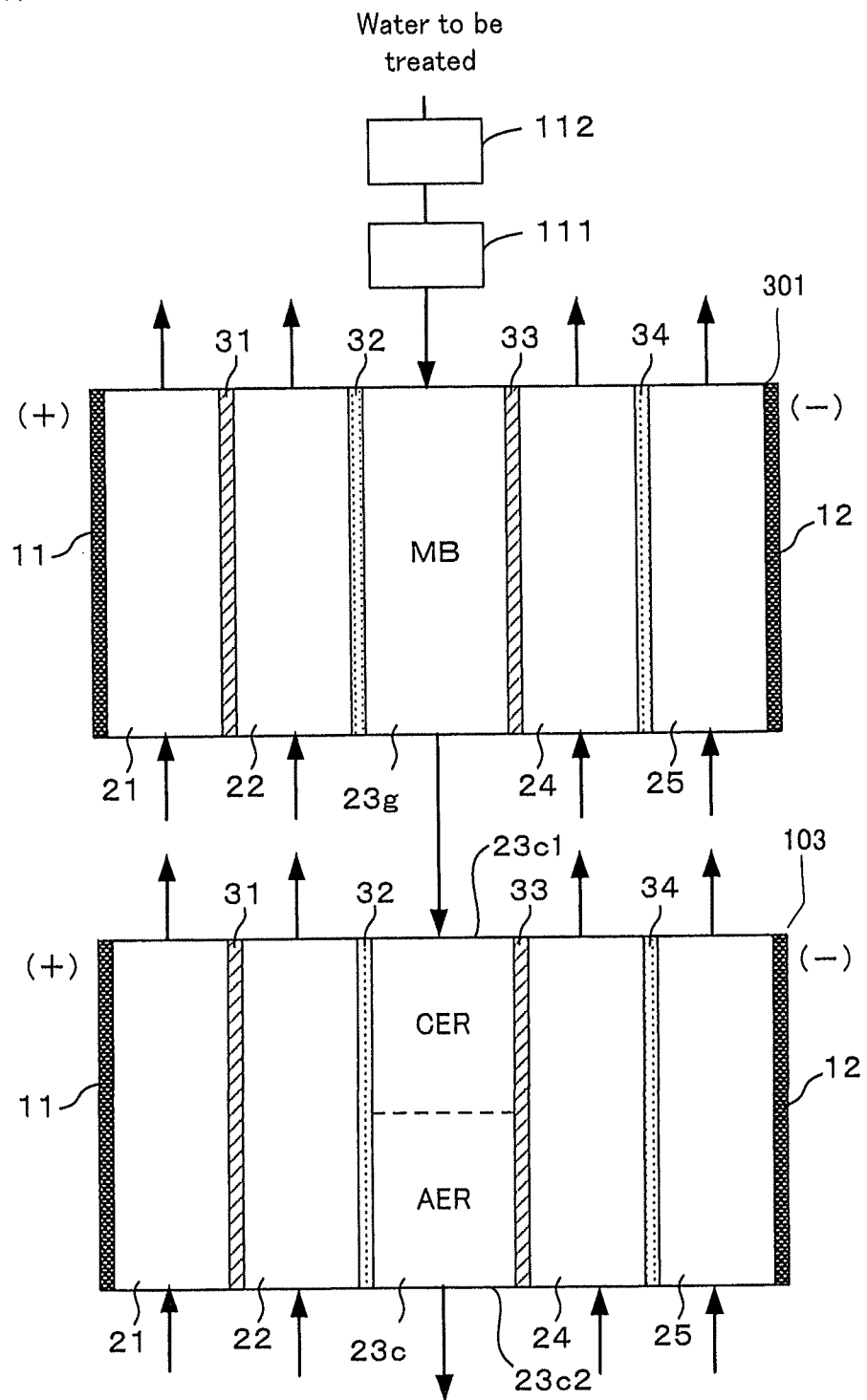


Fig.18

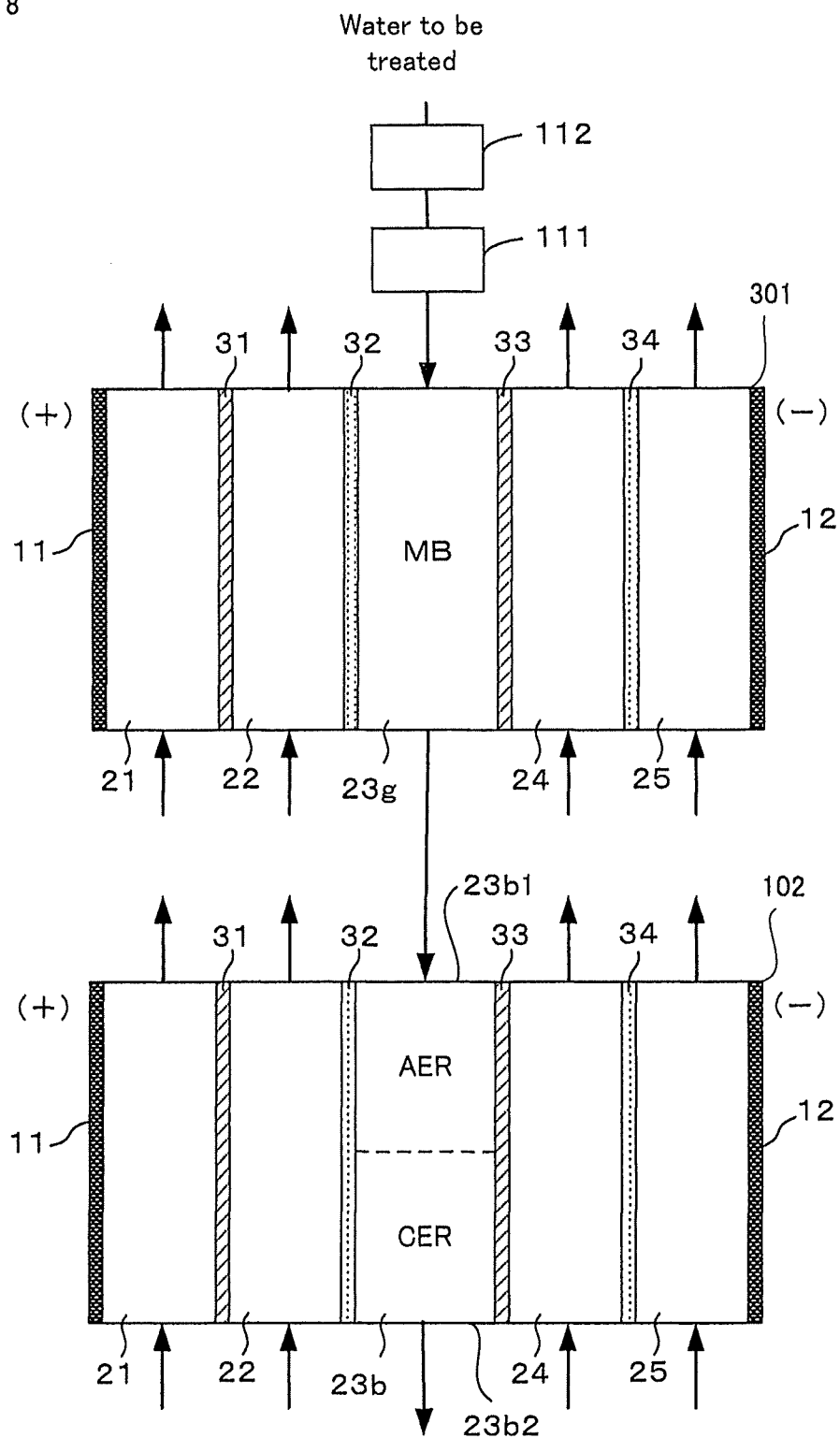


Fig.19

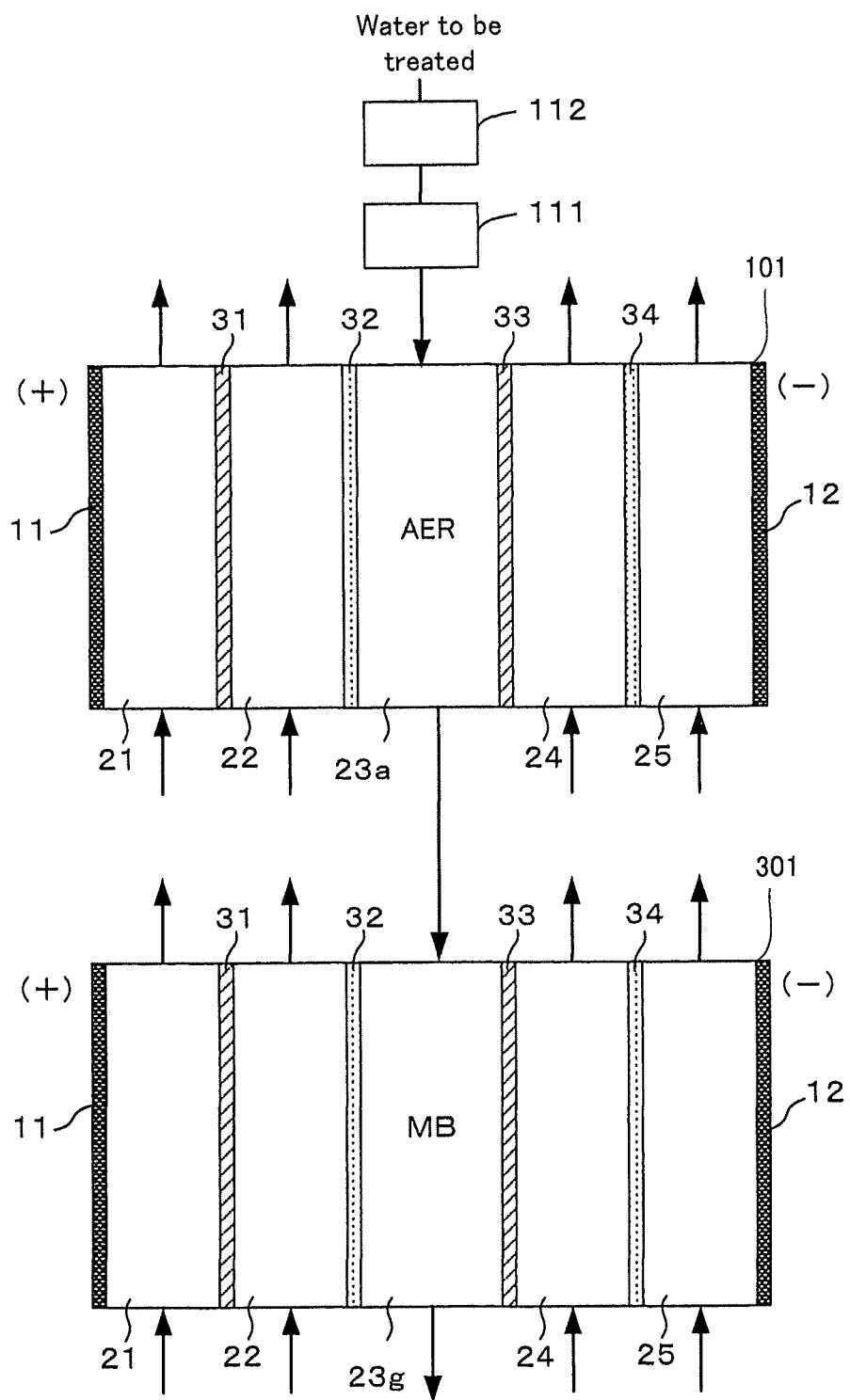
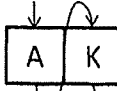
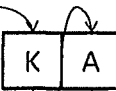
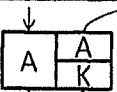
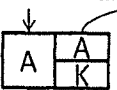
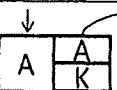
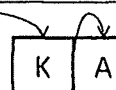


Fig. 20

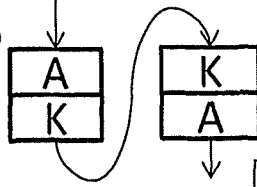
Example	1st stage EDI Apparatus	2nd stage EDI Apparatus	Boron Concentration in Treated Water ngB/L
1			48
2			44
3			45
4			37
5			36
6			30
7			25
8			21

Comparative Example	1st stage EDI Apparatus	2nd stage EDI Apparatus	Boron Concentration in Treated Water ngB/L
1			160
2			110
3			125
4			95

Fig. 21

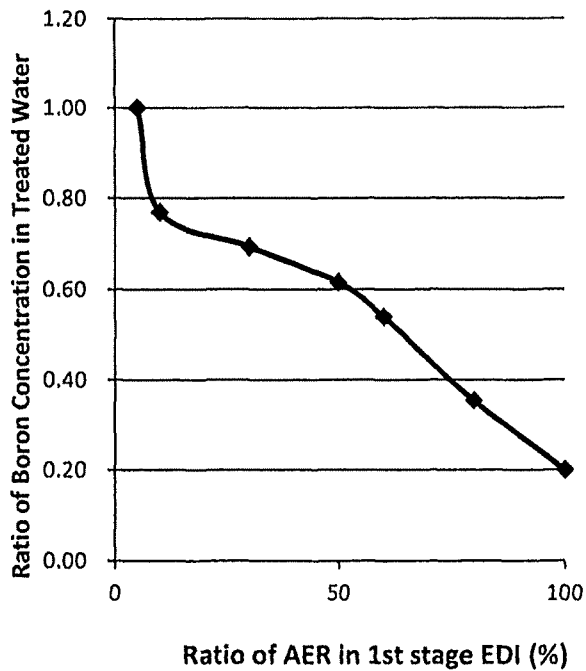
The relationship between the ratio of anion exchange resins and the elimination rate

Examples 9, 10



Elimination Ratio wherein Boron Concentration in Treated Water when Ratio of AER is 5% is "1"

Example 9 Ratio of AER in 1st EDI: 5 ~ 100%
Ratio of AER in 2nd EDI: 10%



Example 10 Ratio of AER in 1st EDI: 10%
Ratio of AER in 2nd EDI: 5 ~ 100%

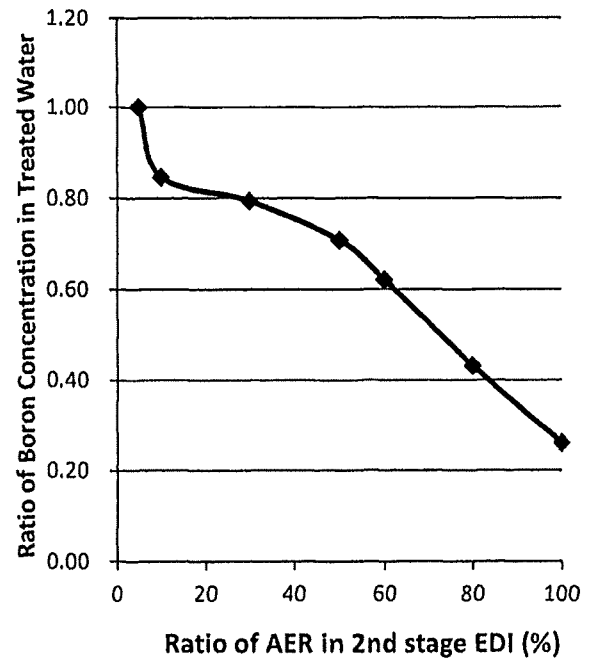
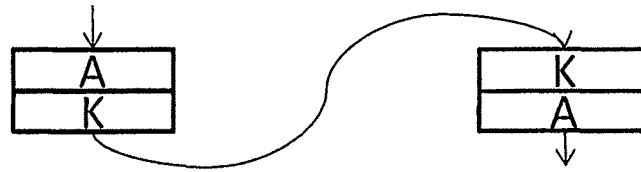


Fig. 22



Example 11

Carbonic Acid Concentration at 1st Stage Entrance (mgCO ₂ /L)	Boron Concentration in Treated Water (ngB/L)
1	18
5	44
10	210

Silica : 98 μ gSiO₂/L
Boron : 97 μ B/L

Example 12

Silica Concentration at 1st Stage Entrance (μ gSiO ₂ /L)	Boron Concentration in Treated Water (ngB/L)
55	32
102	46
198	125

Boron : 97 μ B/L
Carbonic Acid : 5mgCO₂/L

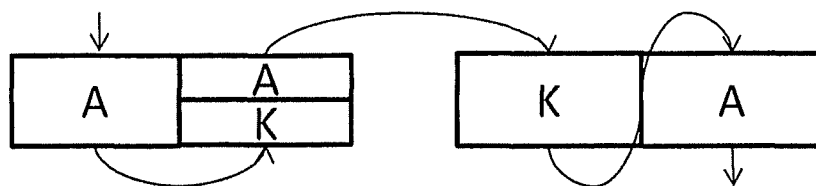
Example 13

Boron Concentration at 1st Stage Entrance (μ B/L)	Boron Concentration in Treated Water (ngB/L)
48	32
100	49
153	94
198	70

Silica : 98 μ gSiO₂/L
Carbonic Acid : 5mgCO₂/L

← Current 0.8A

Fig. 23



Example 14

Boron Concentration at 1st Stage Entrance (μ B/L)	Boron Concentration in Treated Water (ngB/L)
99	26
298	48
504	102

Silica : 101 μ gSiO₂/L
Carbonic Acid : 5mgCO₂/L