Fig.1.

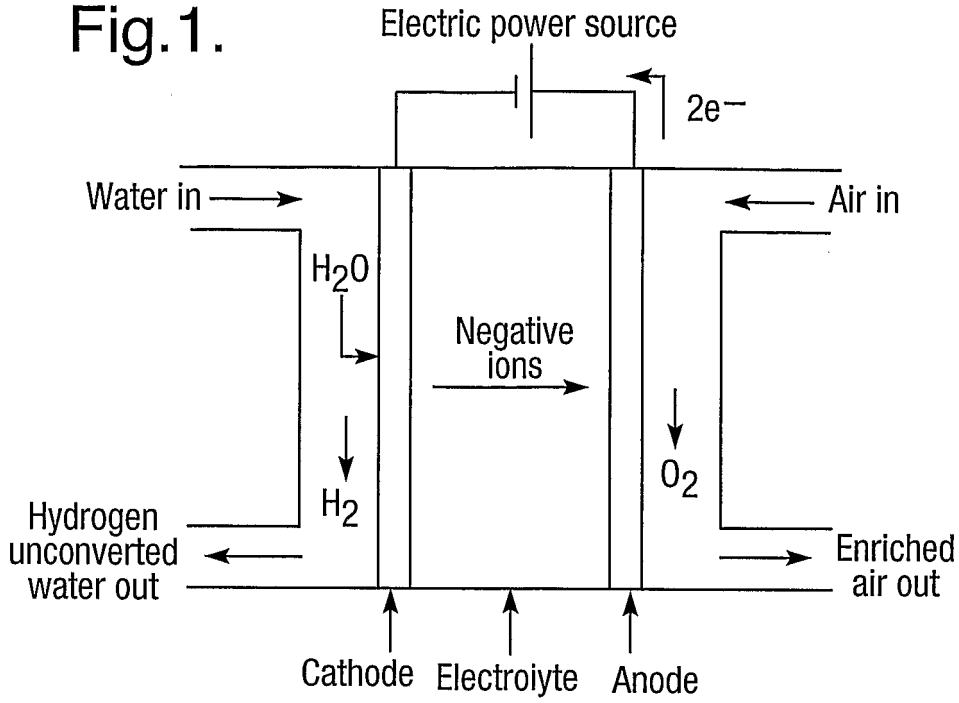
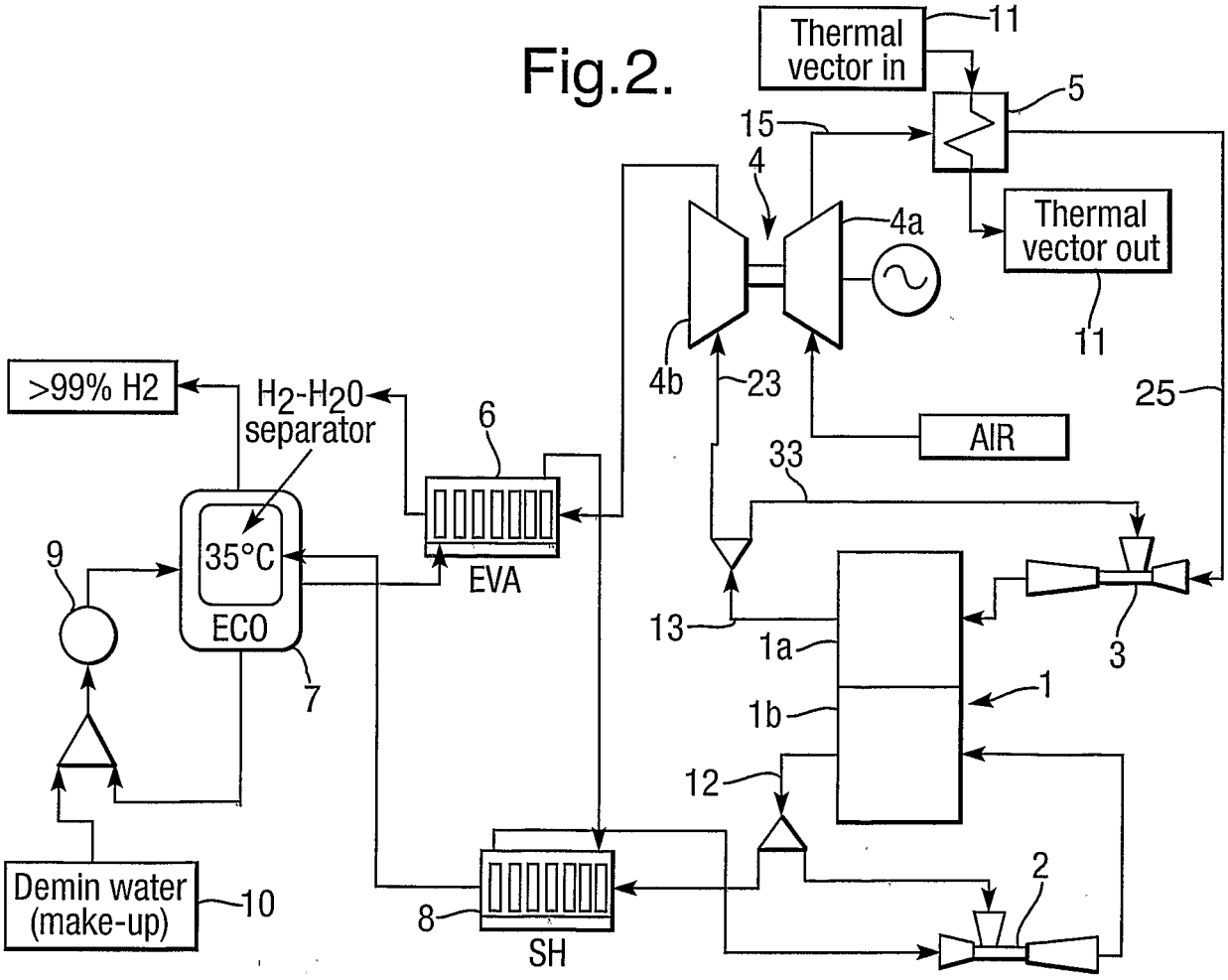

Electric power source
2e−
Water in
Air in
H_2O
Negative ions
O_2
H_2
Hydrogen unconverted water out
Enriched air out
Cathode
Electroiyte
Anode

Fig.2.


Thermal vector in
11
5
15
4
4a
Thermal vector out
11
4b
23
25
AIR
33
>99% H2
H_2-H_2O separator
6
9
35°C
ECO
EVA
7
13
1a
1b
1
3
12
Demin water (make-up)
10
8
SH
2

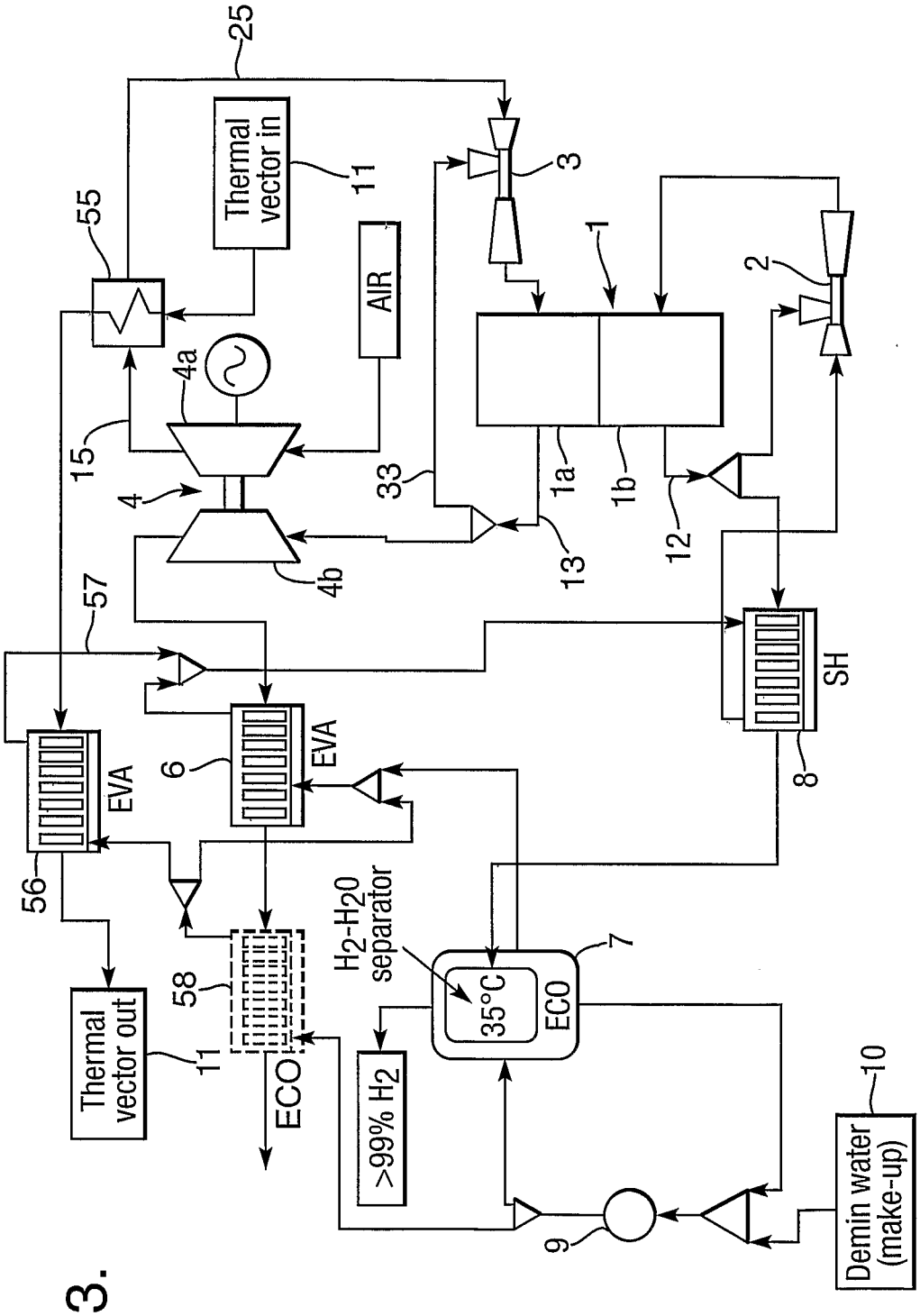

25
Thermal vector in
11
55
AIR
3
1
2
4a
15
4
33
1a
1b
12
13
4b
57
SH
EVA
6
EVA
8
56
H2-H20 separator
7
58
35°C
ECO
Thermal vector out
11
ECO
>99% H2
10
Demin water (make-up)
9

Fig.3.

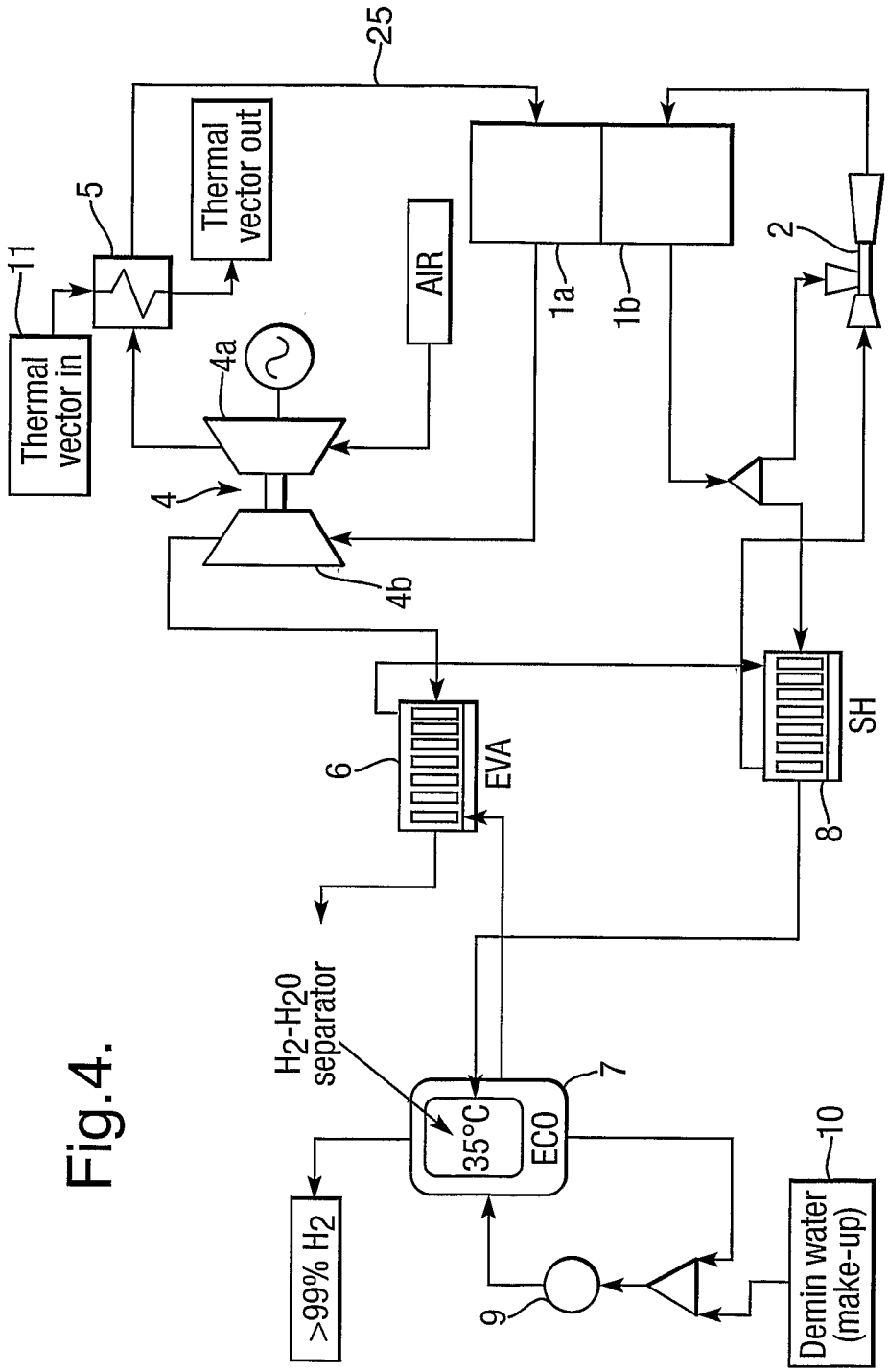
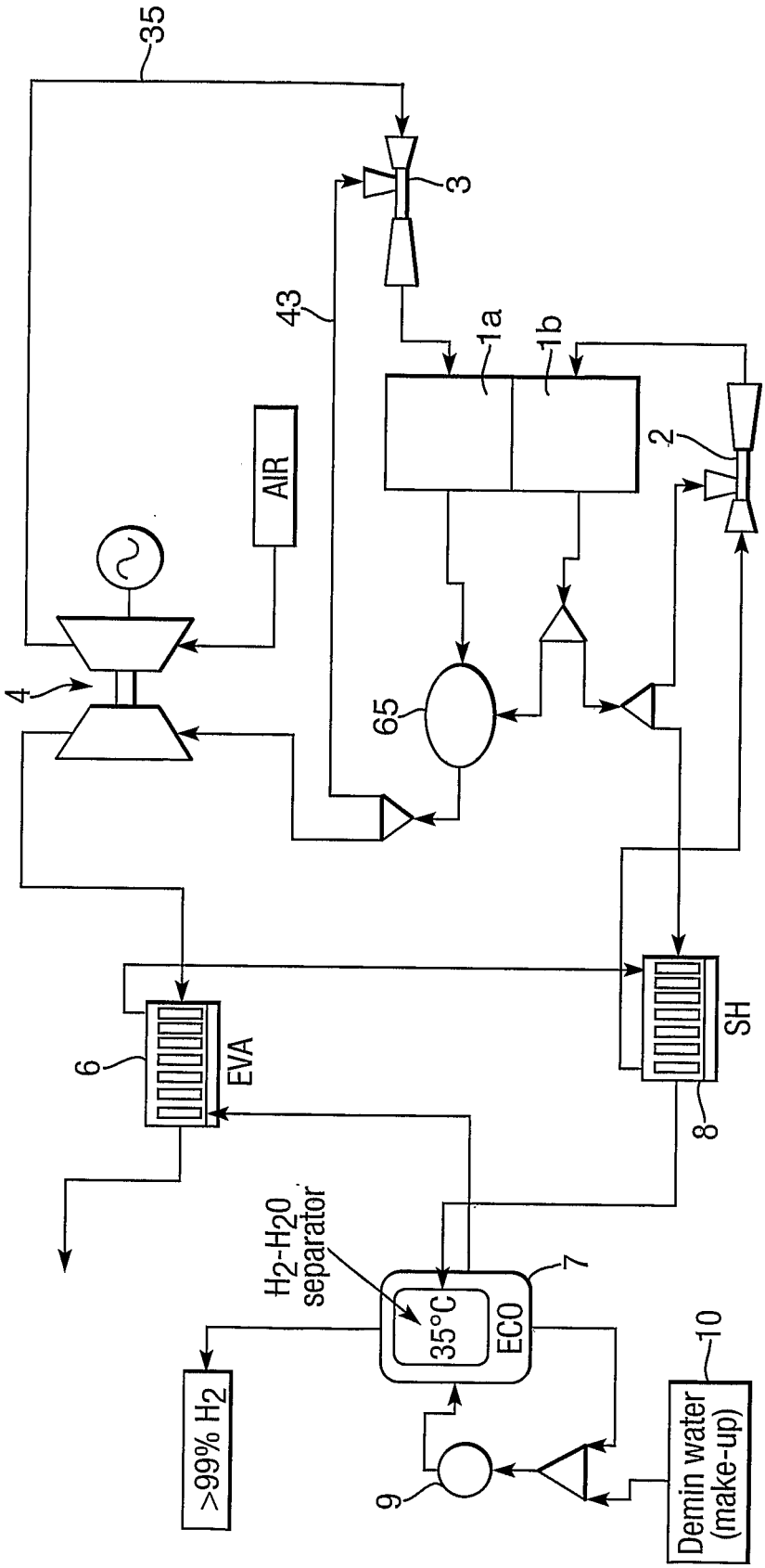

25
Thermal vector out
5
11
Thermal vector in
AIR
4a
4
4b
1a
1b
2
6
EVA
SH
8
H2-H20 separator
35°C
ECO
7
>99% H2
9
10
Demin water (make-up)

Fig.4.

Fig.5.


35
3
43
1a
1b
2
AIR
4
65
6
EVA
SH
8
H_2-H_2O separator
35°C
ECO
7
>99% H_2
9
10
Demin water (make-up)