ABSTRACT

A method for producing an anion exchanger-cation exchanger mixture includes an anion exchanger conversion step (1) that brings a carbon dioxide aqueous solution obtained by dissolving carbon dioxide in purified water or ultrapure water into contact with a mixture that includes an anion exchanger (B) and a cation exchanger to convert the anion exchanger (B) into an anion exchanger (A) that includes a bicarbonate form, or includes a bicarbonate form and a carbonate form, to obtain a mixture that includes the anion exchanger (A) and the cation exchanger. The method can convert the anion exchanger included in the mixture that includes the anion exchanger and the cation exchanger into an anion exchanger that includes the bicarbonate form, or includes the bicarbonate form and the carbonate form, in a state of the mixture.

Fig.1

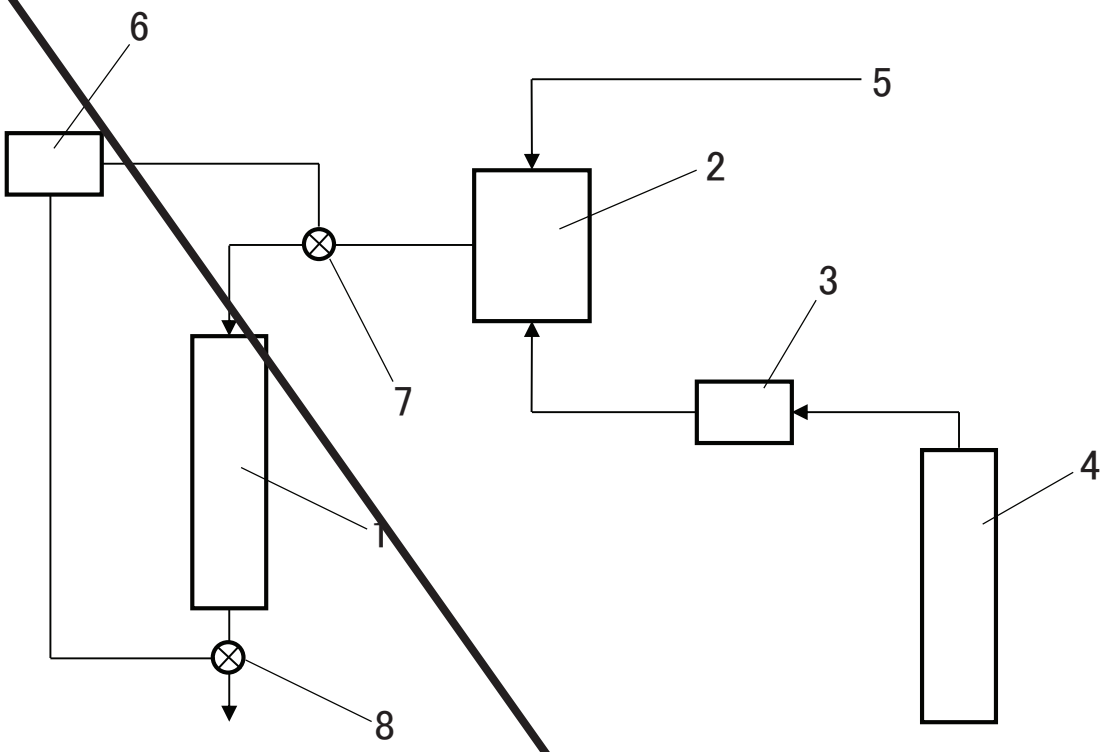

6
5
2
3
7
4
1
8

Fig.2

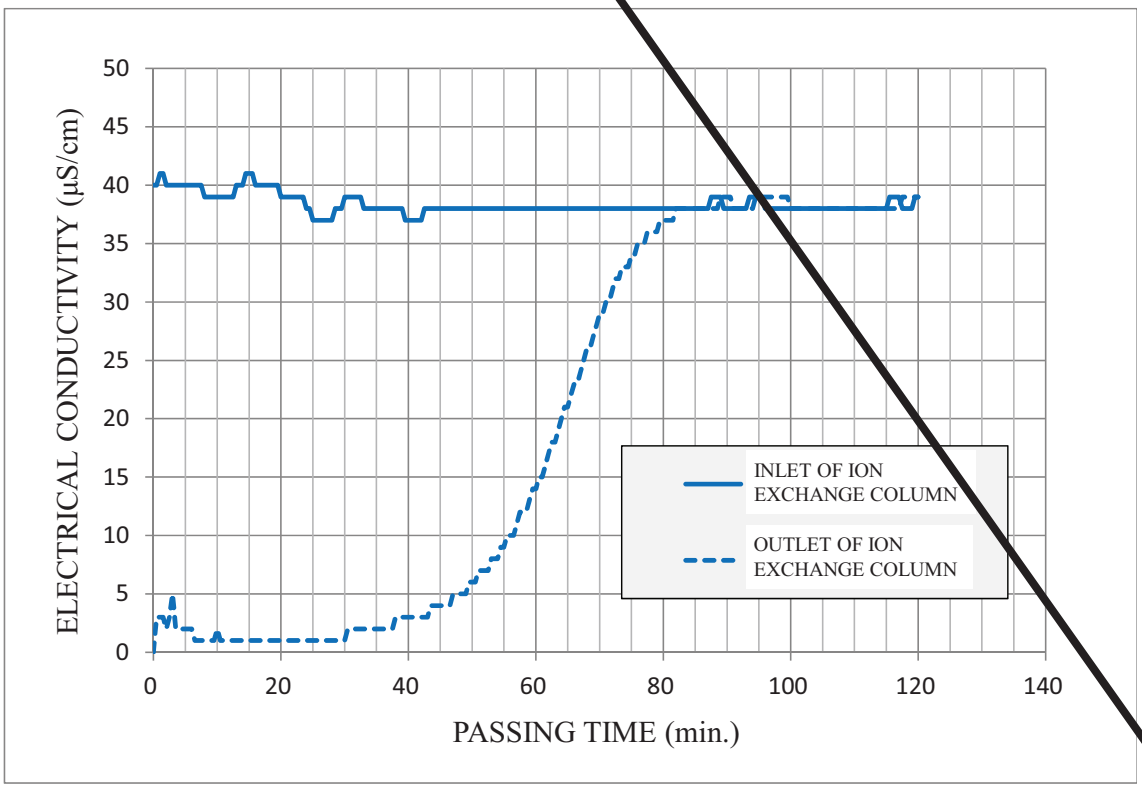

ELECTRICAL CONDUCTIVITY (μS/cm)
50
45
40
35
30
25
20
15
10
5
0
0
20
40
60
80
100
120
140
PASSING TIME (min.)
INLET OF ION EXCHANGE COLUMN
OUTLET OF ION EXCHANGE COLUMN

Fig.3

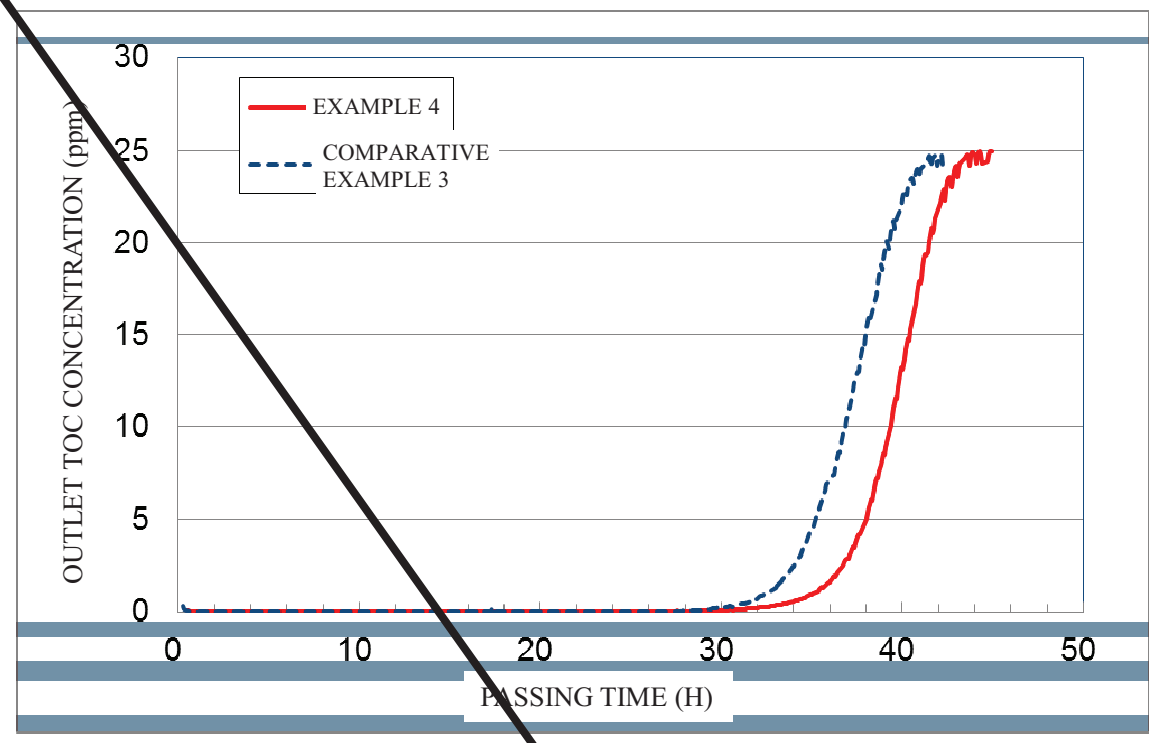

30
25
20
15
10
5
0
OUTLET TOC CONCENTRATION (ppm)
EXAMPLE 4
COMPARATIVE EXAMPLE 3
0
10
20
30
40
50
PASSING TIME (H)

Fig.1

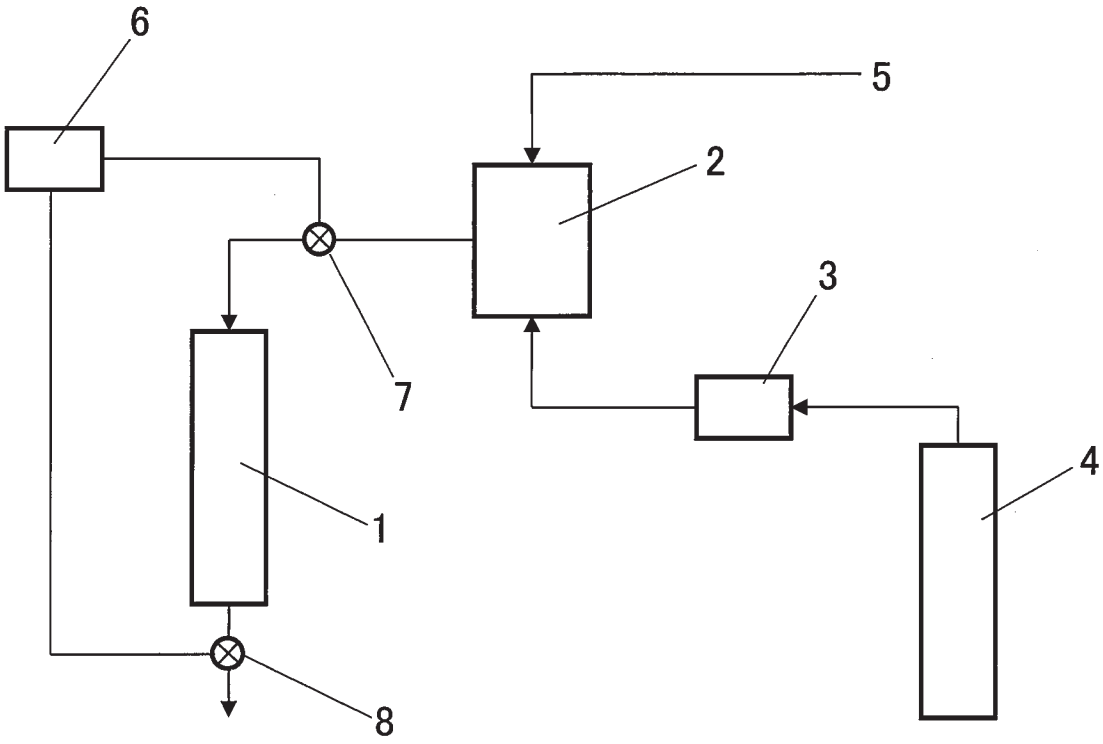

6
5
2
3
7
1
4
8

Fig.2

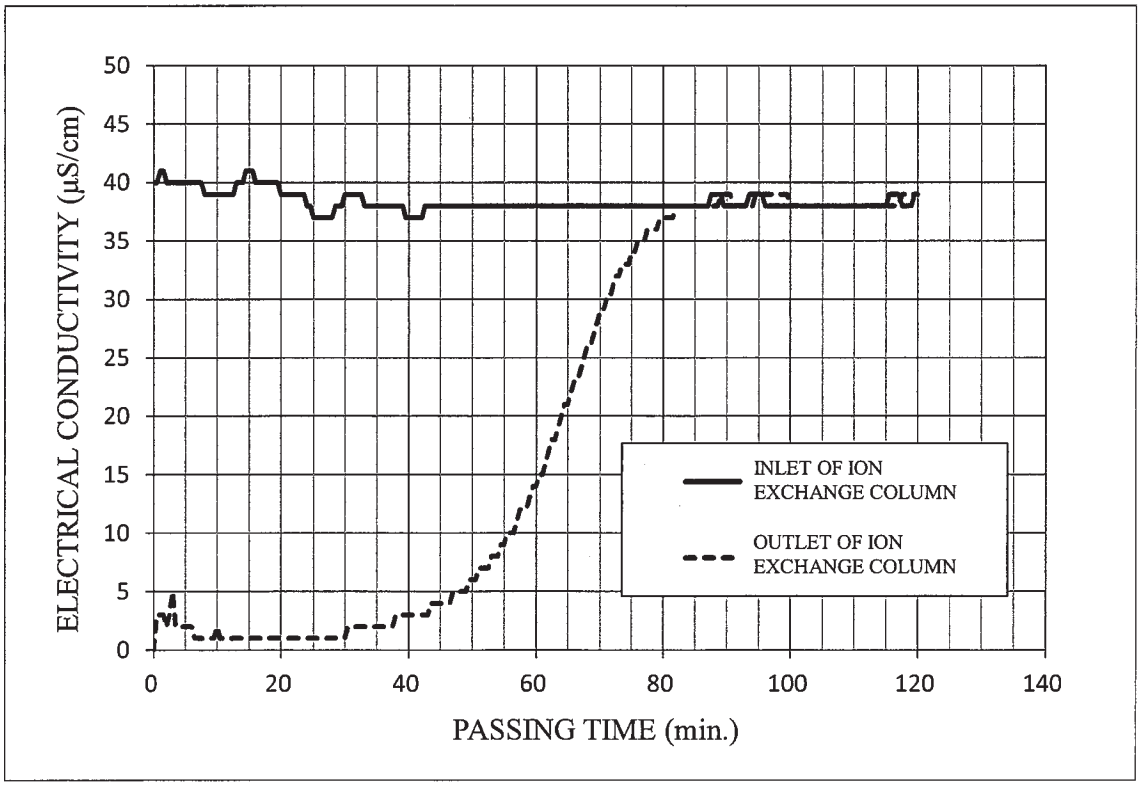
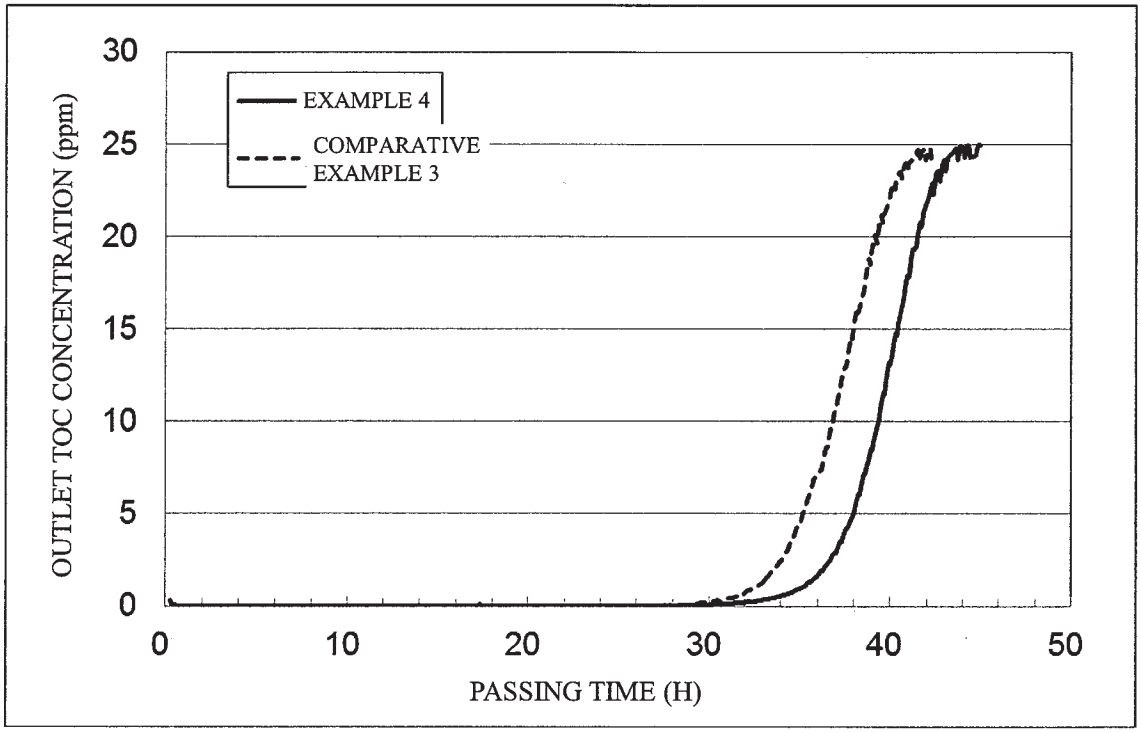

ELECTRICAL CONDUCTIVITY (μS/cm)
50
45
40
35
30
25
20
15
10
5
0
0
20
40
60
80
100
120
140
PASSING TIME (min.)
INLET OF ION EXCHANGE COLUMN
OUTLET OF ION EXCHANGE COLUMN

Fig.3


30
25
20
15
10
5
0
OUTLET TOC CONCENTRATION (ppm)
EXAMPLE 4
COMPARATIVE EXAMPLE 3
0
10
20
30
40
50
PASSING TIME (H)