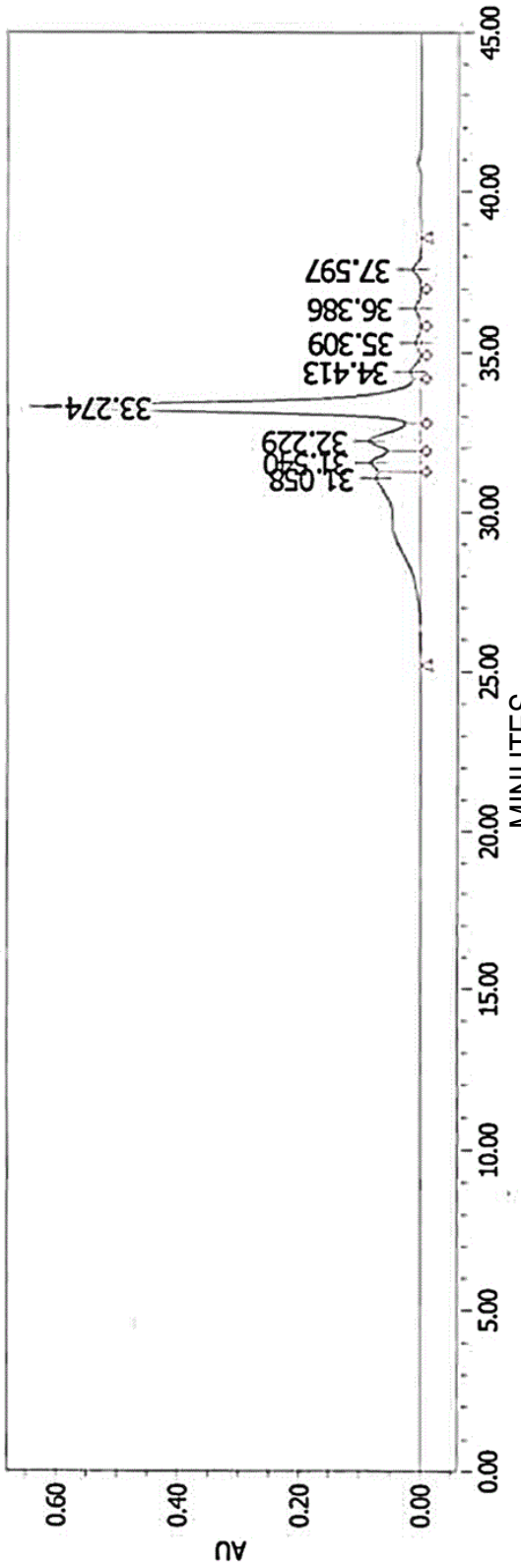

AU
0.00
0.20
0.40
0.60
MINUTES
0.00
5.00
10.00
15.00
20.00
25.00
30.00
35.00
40.00
45.00
31.058
31.540
32.229
33.274
34.413
35.309
36.386
37.597

FIG. 1

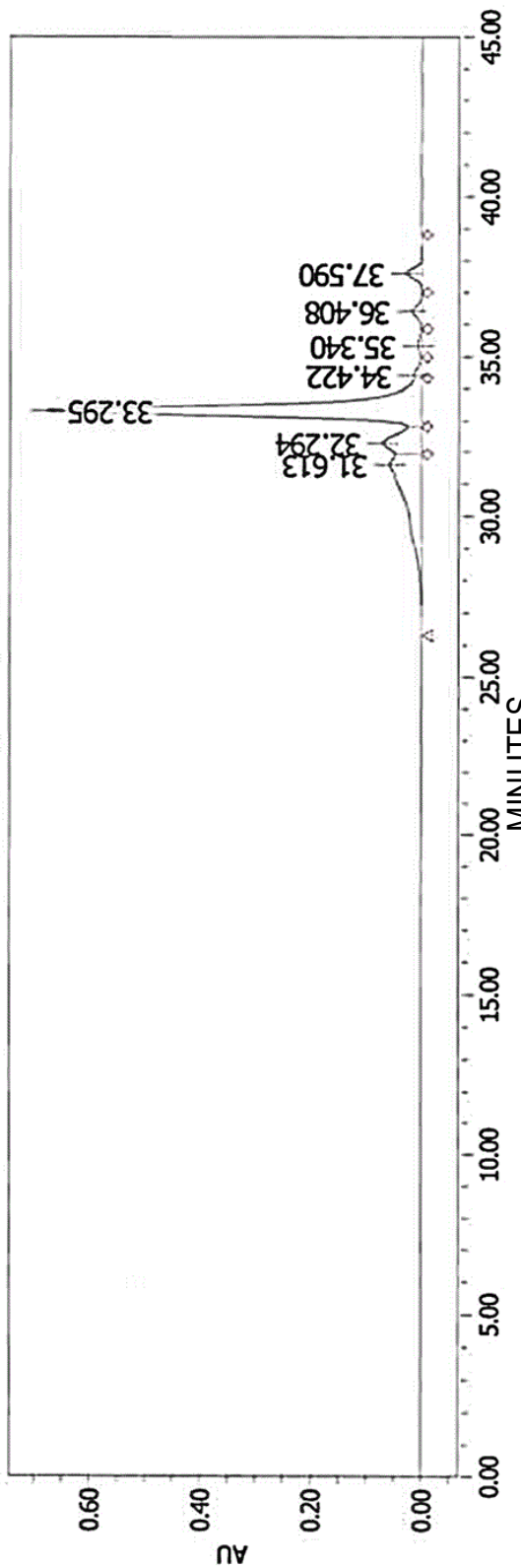

AU
0.00
0.20
0.40
0.60
MINUTES
0.00
5.00
10.00
15.00
20.00
25.00
30.00
35.00
40.00
45.00
31.613
32.294
33.295
34.422
35.340
36.408
37.590

FIG. 2

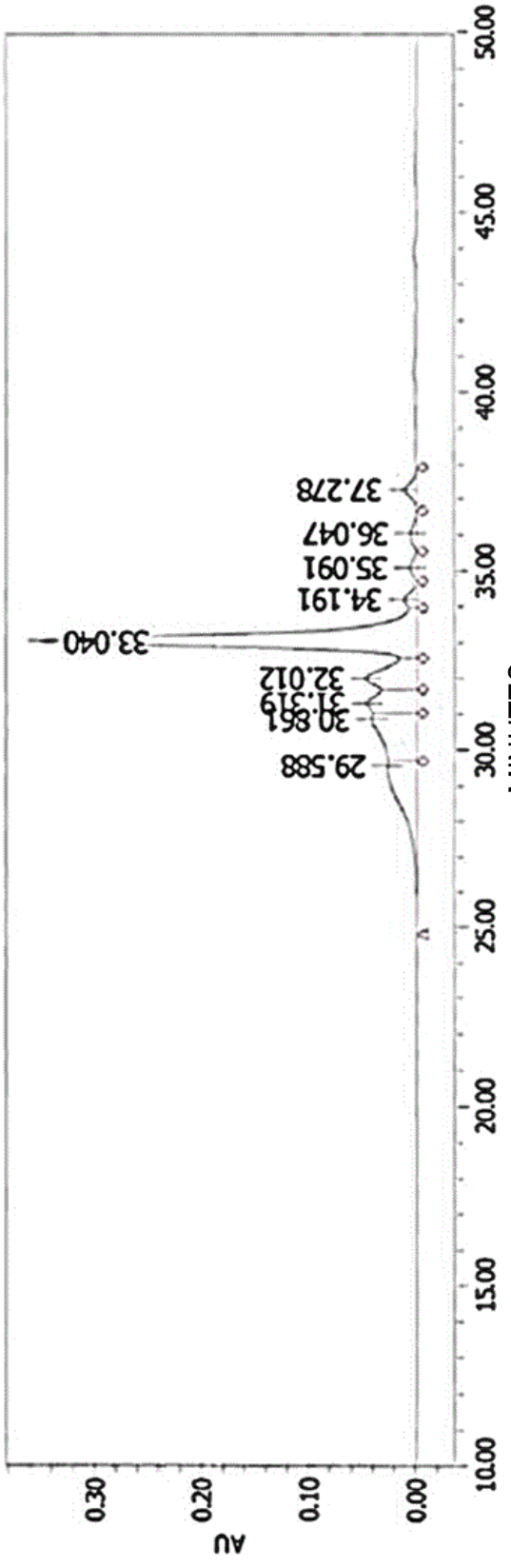

AU
0.30
0.20
0.10
0.00
10.00
15.00
20.00
25.00
30.00
35.00
40.00
45.00
50.00
MINUTES
29.588
30.861
31.319
32.012
33.040
34.191
35.091
36.047
37.278

FIG. 3

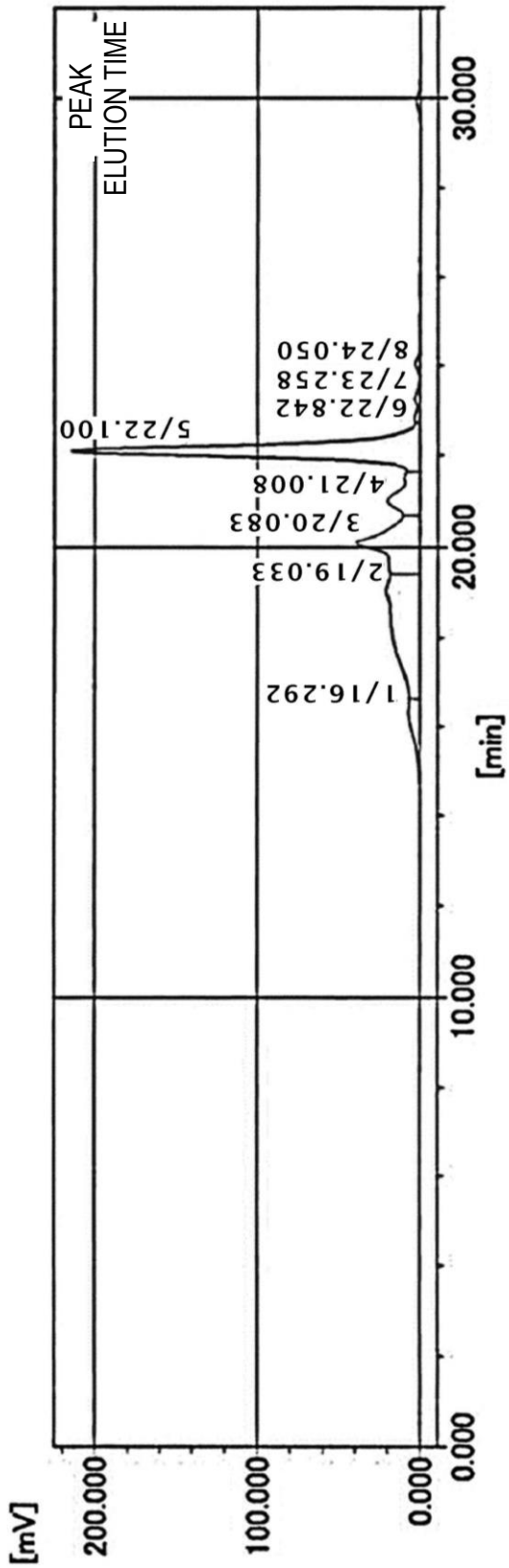

[mV]
200.000
100.000
0.000
0.000
10.000
20.000
30.000
[min]
PEAK
ELUTION TIME
1/16.292
2/19.033
3/20.083
4/21.008
5/22.100
6/22.842
7/23.258
8/24.050

FIG. 4

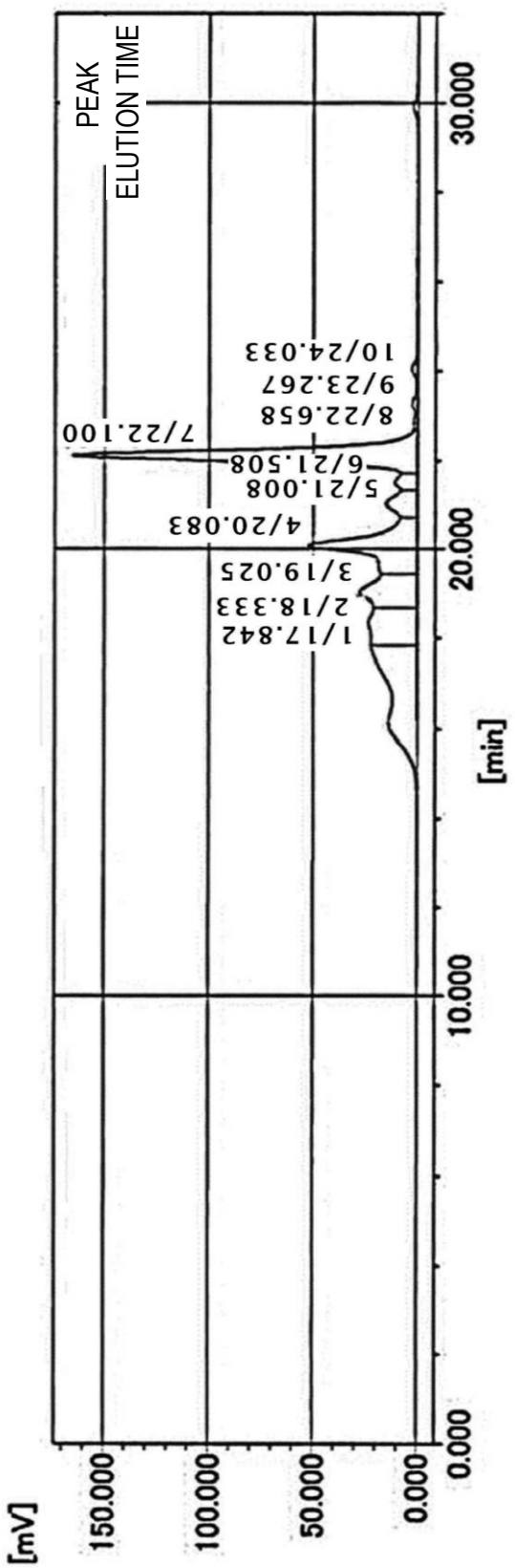

PEAK
ELUTION TIME
1/17.842
2/18.333
3/19.025
4/20.083
5/21.008
6/21.508
7/22.100
8/22.658
9/23.267
10/24.033
[mV]
150.000
100.000
50.000
0.000
0.000
10.000
20.000
30.000
[min]

FIG. 5

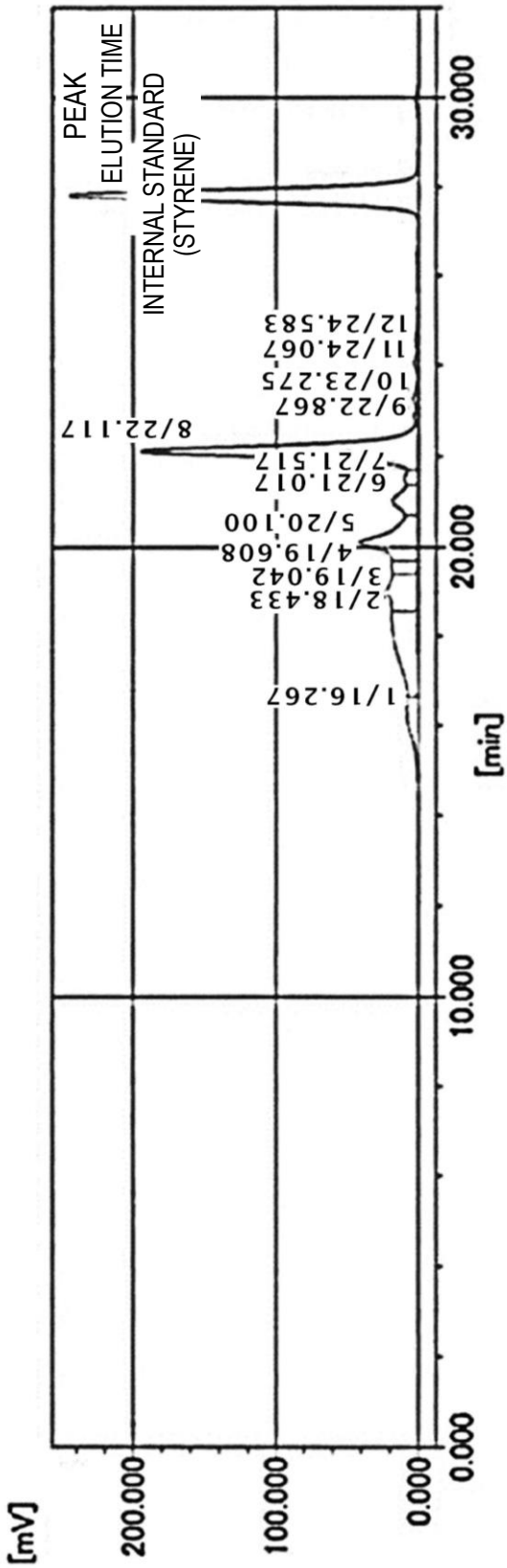

PEAK
ELUTION TIME
INTERNAL STANDARD
(STYRENE)
1/16.267
2/18.433
3/19.042
4/19.608
5/20.100
6/21.017
7/21.517
8/22.117
9/22.867
10/23.275
11/24.067
12/24.583
[mV]
200.000
100.000
0.000
0.000
10.000
20.000
30.000
[min]

FIG. 6

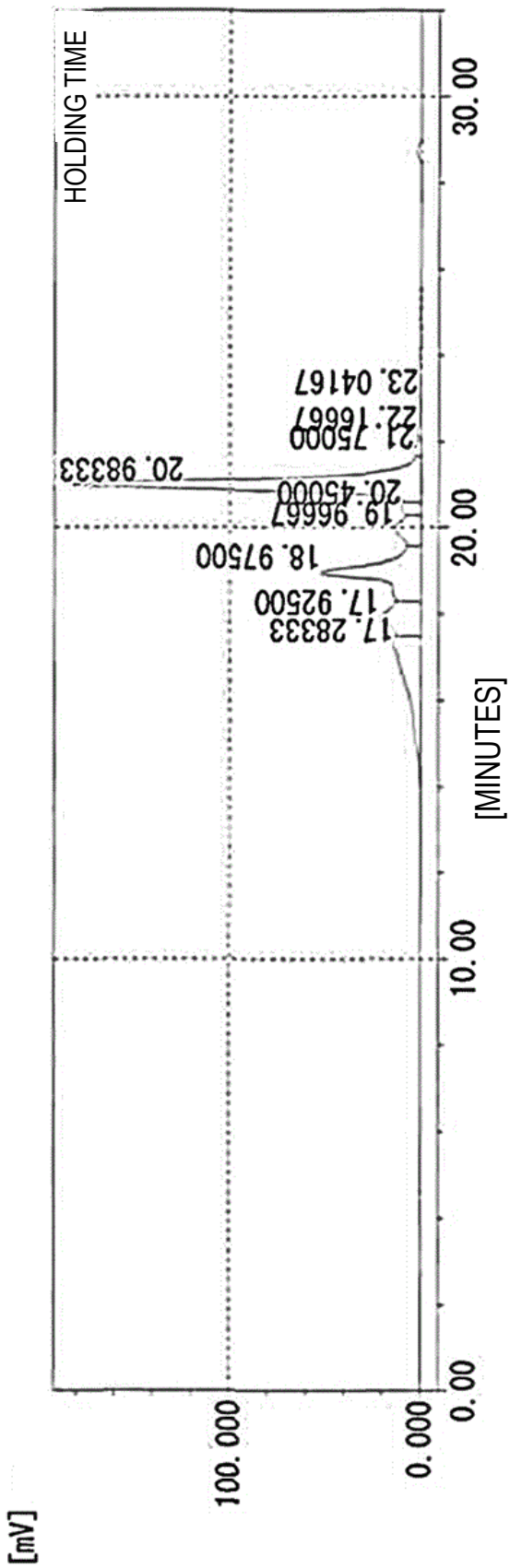

HOLDING TIME
[mV]
100.000
0.000
0.00
10.00
20.00
30.00
[MINUTES]
17.28333
17.92500
18.97500
19.96667
20.45000
20.98333
21.75000
22.16667
23.04167

FIG. 7

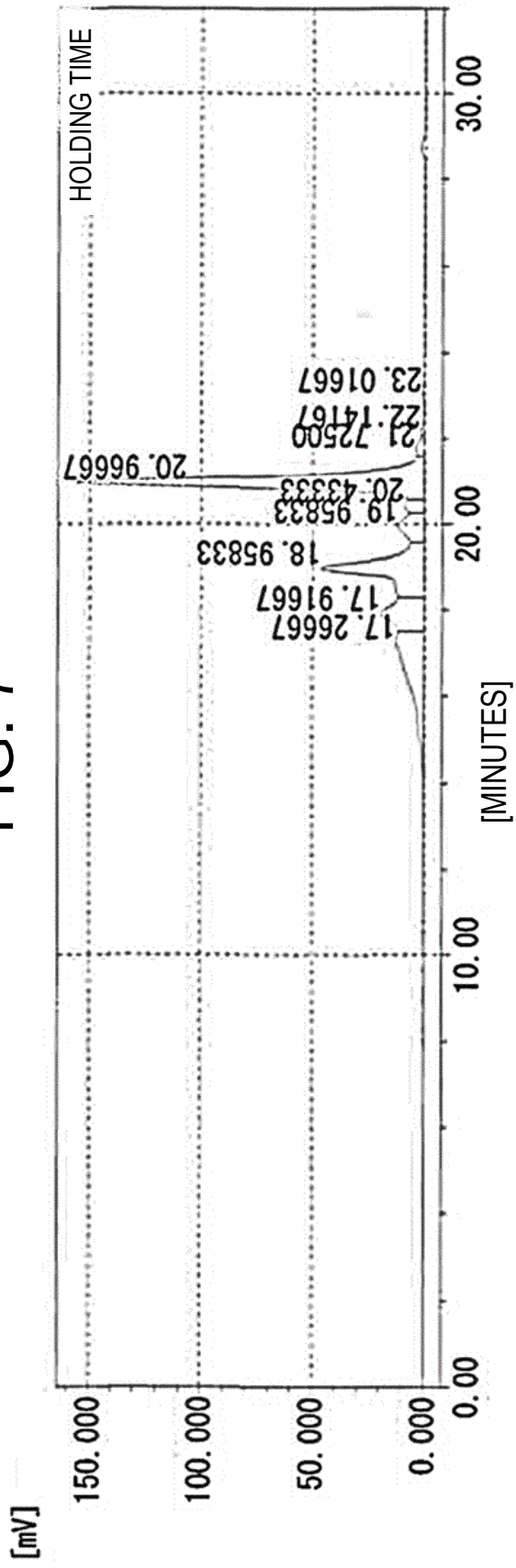

HOLDING TIME
[mV]
150.000
100.000
50.000
0.000
0.00
10.00
20.00
30.00
[MINUTES]
17.26667
17.91667
18.95833
19.95833
20.43333
20.96667
21.72500
22.14167
23.01667

FIG. 8

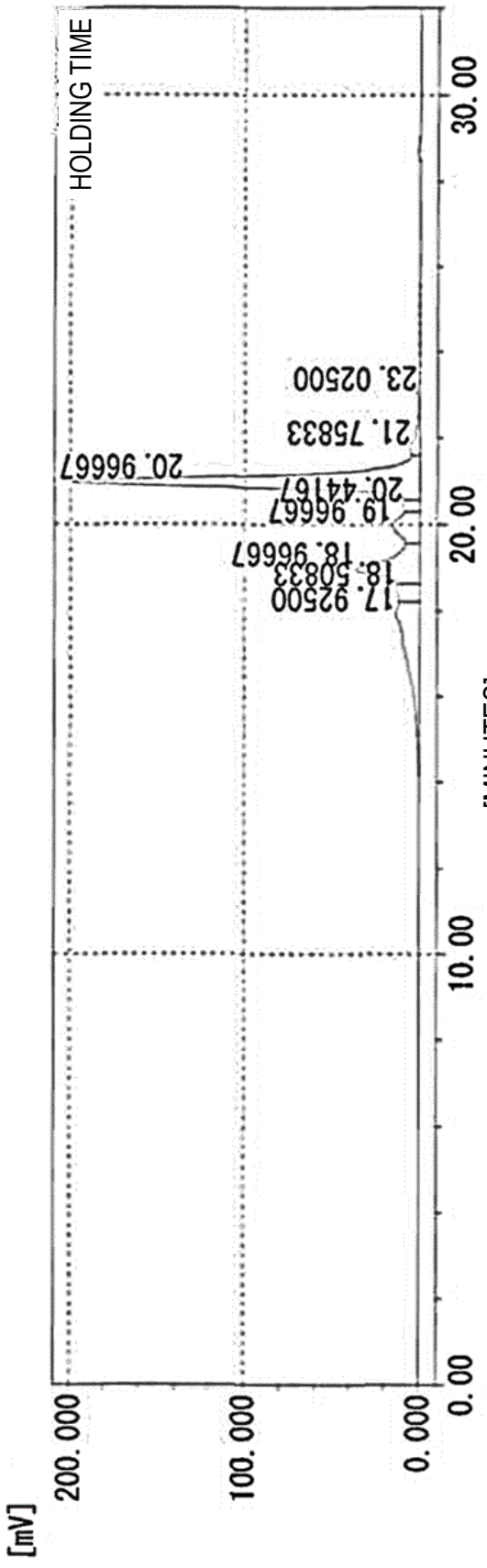

HOLDING TIME
23.02500
21.75833
20.96667
20.41667
19.96667
18.50833
18.96667
17.92500
30.00
20.00
10.00
0.00
200.000
100.000
0.000
[mV]
[MINUTES]

FIG. 9

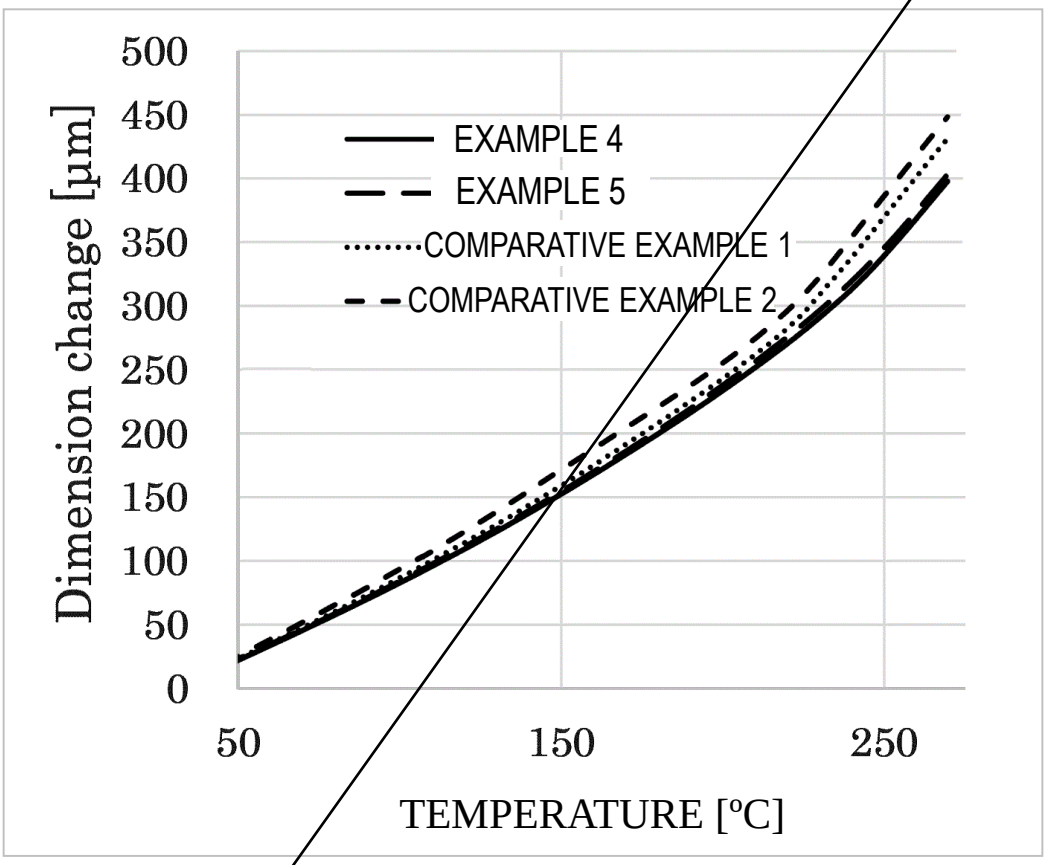

500
450
400
350
300
250
200
150
100
50
0
Dimension change [μm]
EXAMPLE 4
EXAMPLE 5
COMPARATIVE EXAMPLE 1
COMPARATIVE EXAMPLE 2
50
150
250
TEMPERATURE [ºC]

FIG. 10

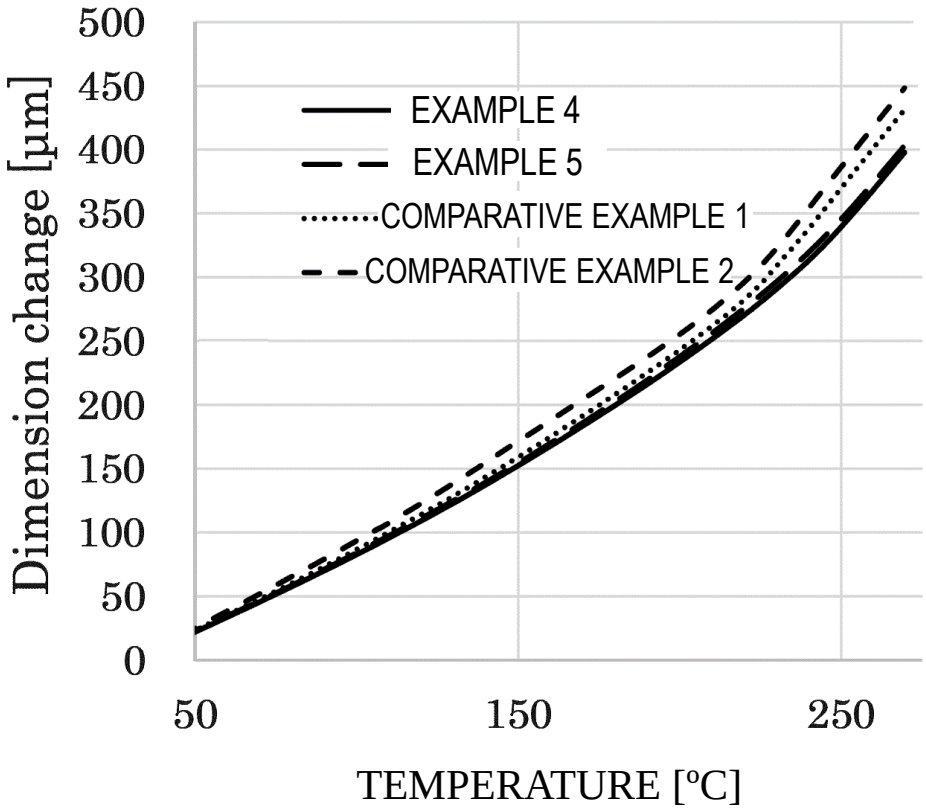

500
450
400
350
300
250
200
150
100
50
0
Dimension change [μm]
EXAMPLE 4
EXAMPLE 5
COMPARATIVE EXAMPLE 1
COMPARATIVE EXAMPLE 2
50
150
250
TEMPERATURE [ºC]

FIG. 10

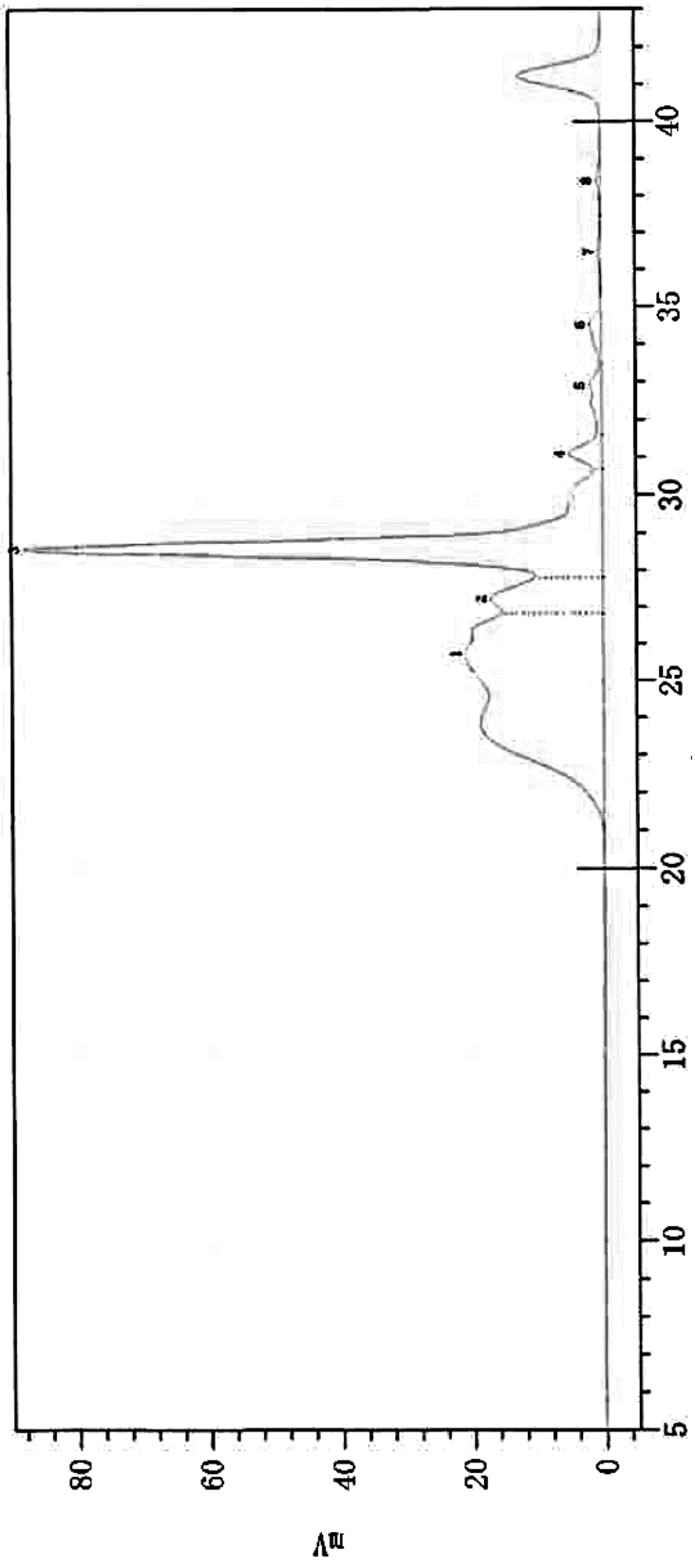


FIG. 11

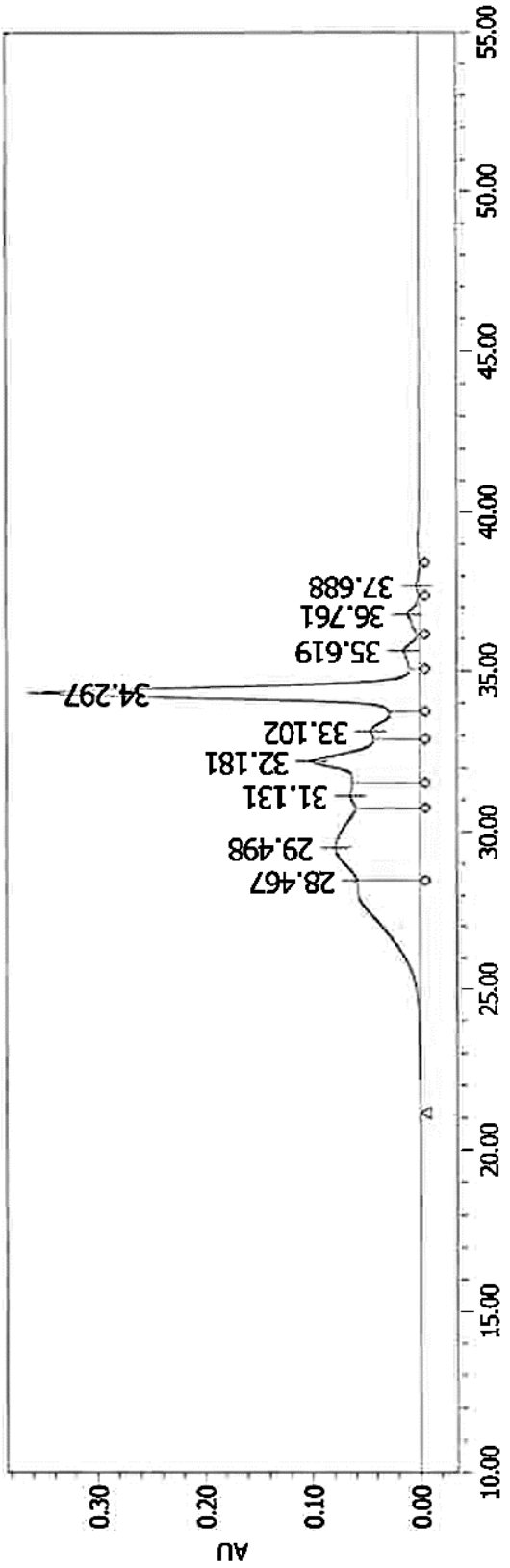

AU
0.00
0.10
0.20
0.30
MINUTES
10.00
15.00
20.00
25.00
30.00
35.00
40.00
45.00
50.00
55.00
28.467
29.498
31.131
32.181
33.102
34.297
35.619
36.761
37.688

FIG. 12

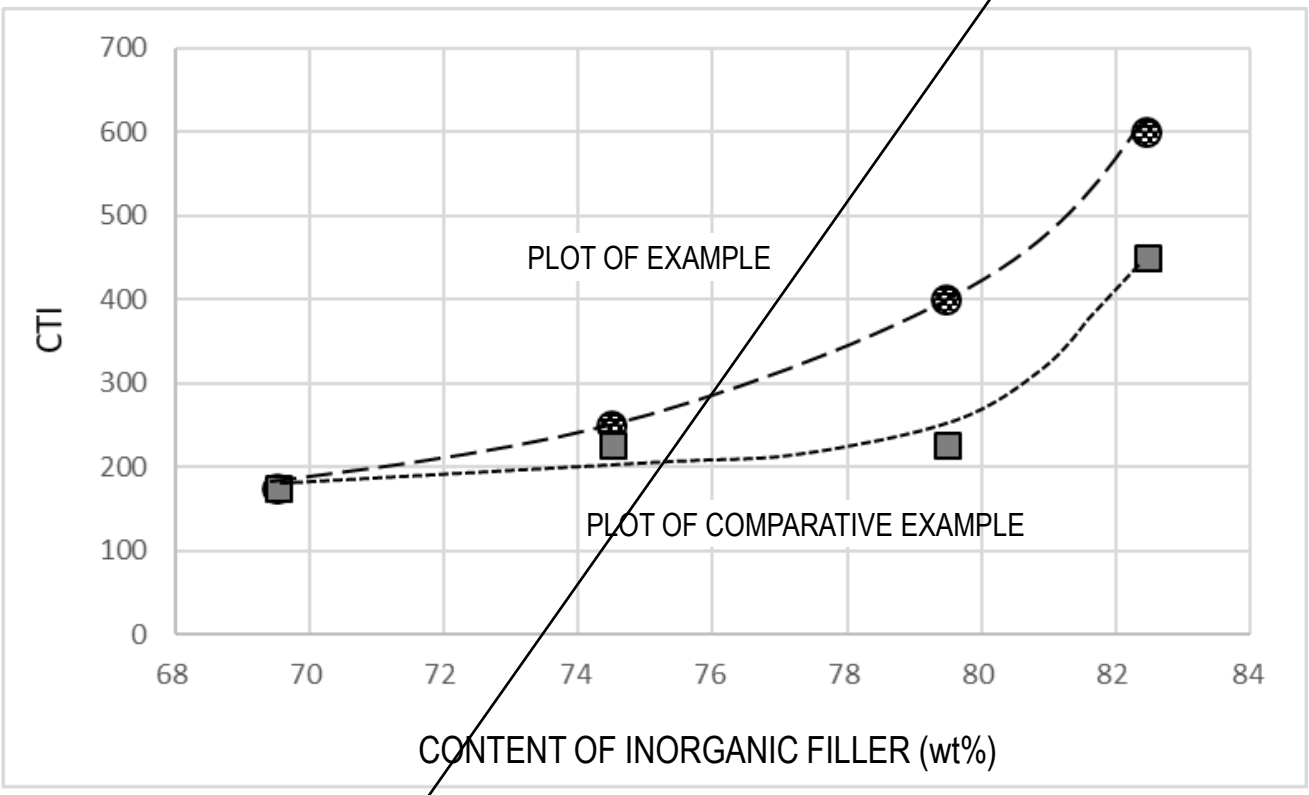

700
600
500
400
300
200
100
0
CTI
PLOT OF EXAMPLE
PLOT OF COMPARATIVE EXAMPLE
68
70
72
74
76
78
80
82
84
CONTENT OF INORGANIC FILLER (wt%)

FIG. 13

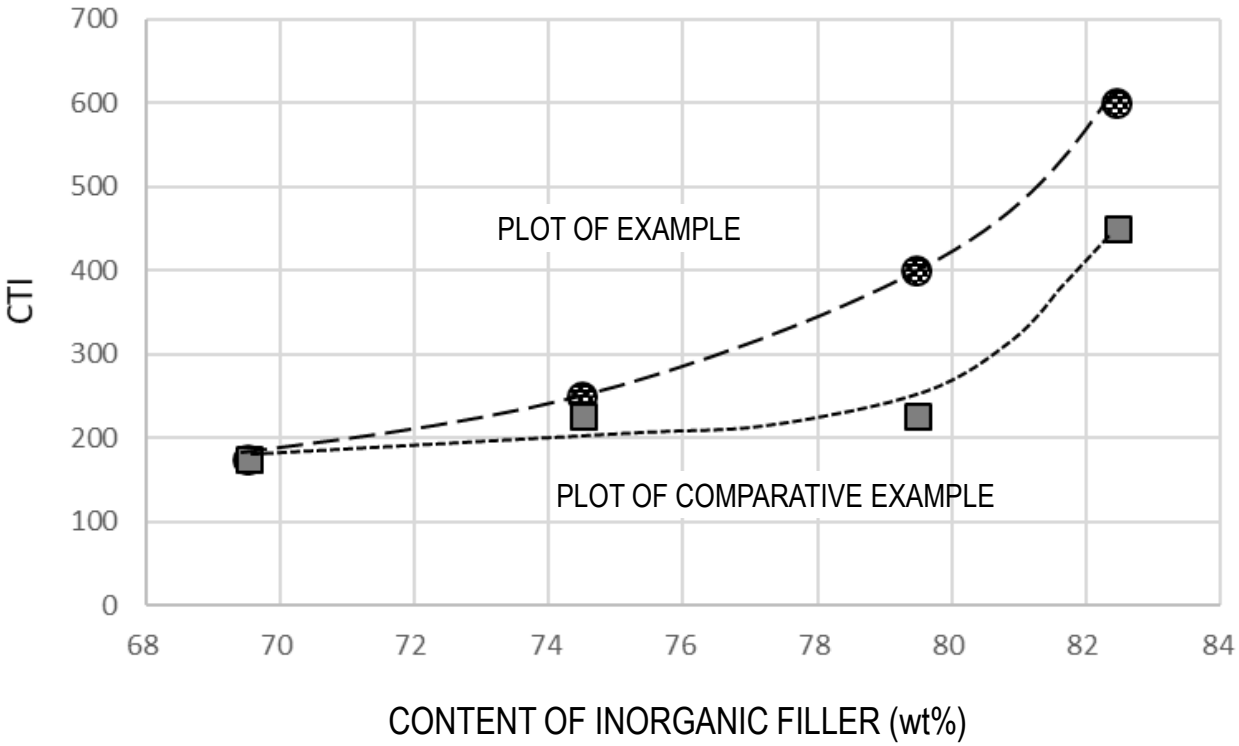

700
600
500
400
300
200
100
0
CTI
PLOT OF EXAMPLE
PLOT OF COMPARATIVE EXAMPLE
68
70
72
74
76
78
80
82
84
CONTENT OF INORGANIC FILLER (wt%)

FIG. 13