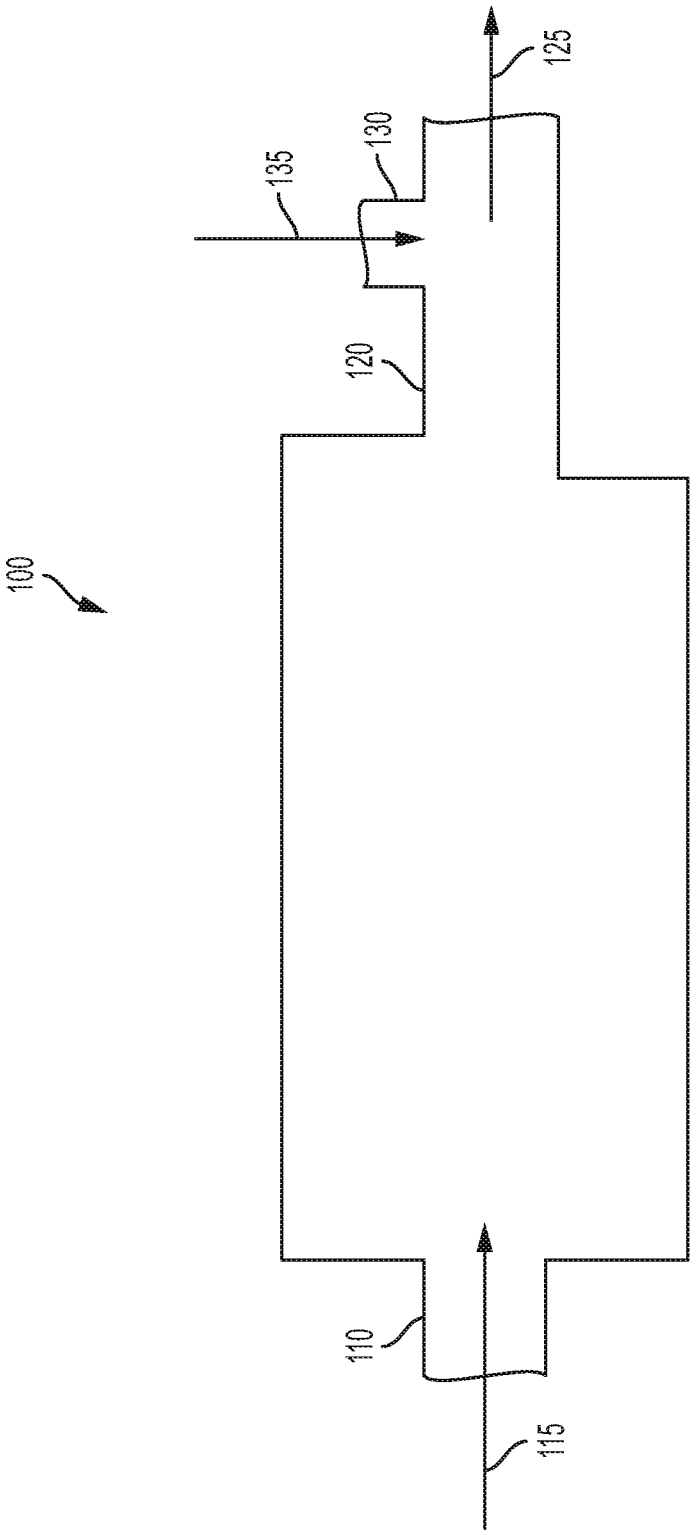


FIG. 1

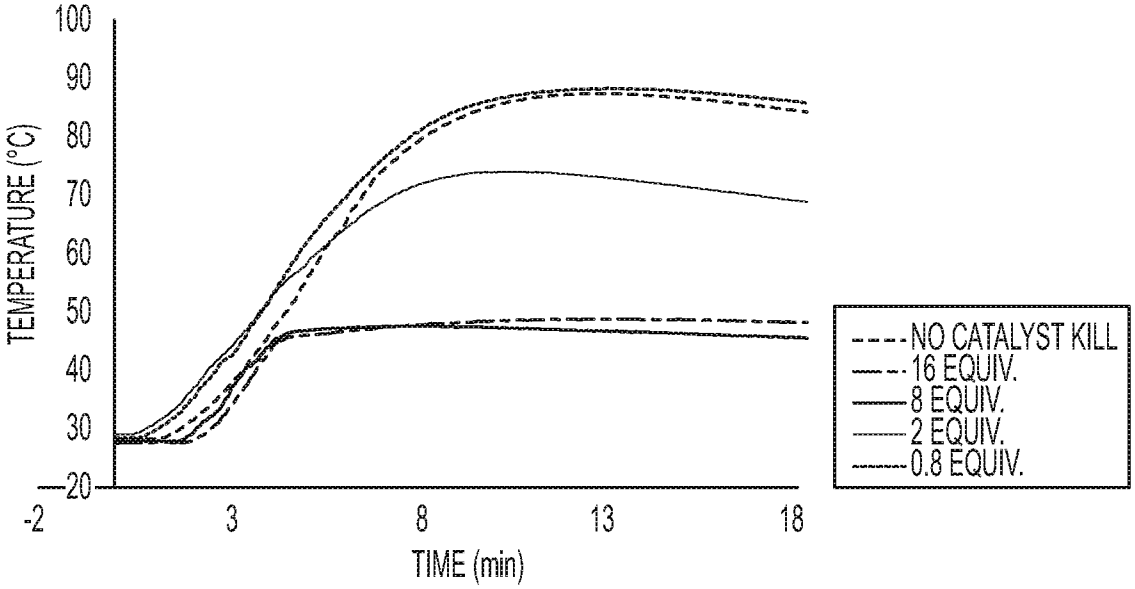

100
90
80
70
60
50
40
30
-20
TEMPERATURE (°C)
-2
3
8
13
18
TIME (min)
NO CATALYST KILL
16 EQUIV.
8 EQUIV.
2 EQUIV.
0.8 EQUIV.

FIG. 2A

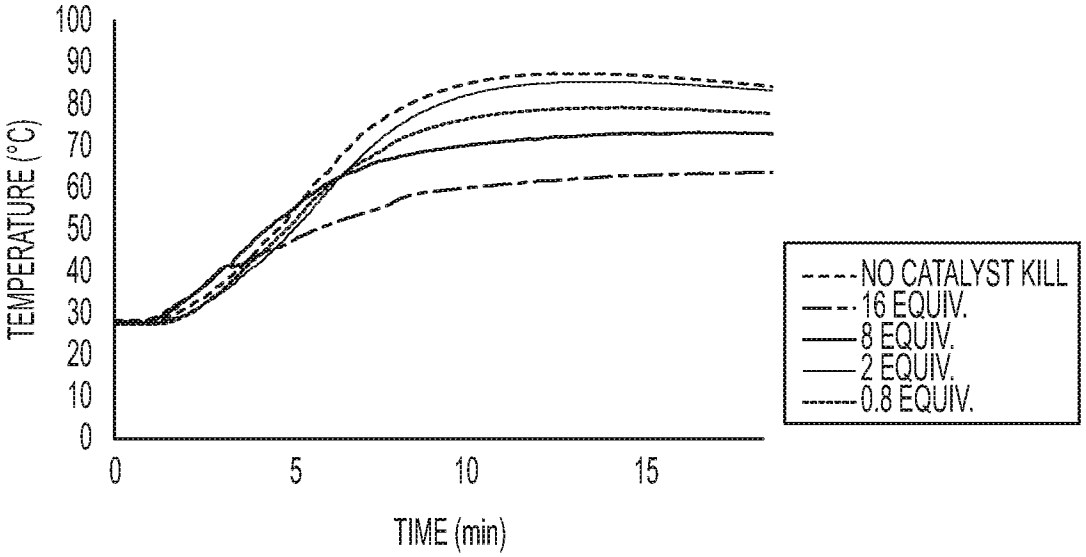

100
90
80
70
60
50
40
30
20
10
0
TEMPERATURE (°C)
0
5
10
15
TIME (min)
NO CATALYST KILL
16 EQUIV.
8 EQUIV.
2 EQUIV.
0.8 EQUIV.

FIG. 2B

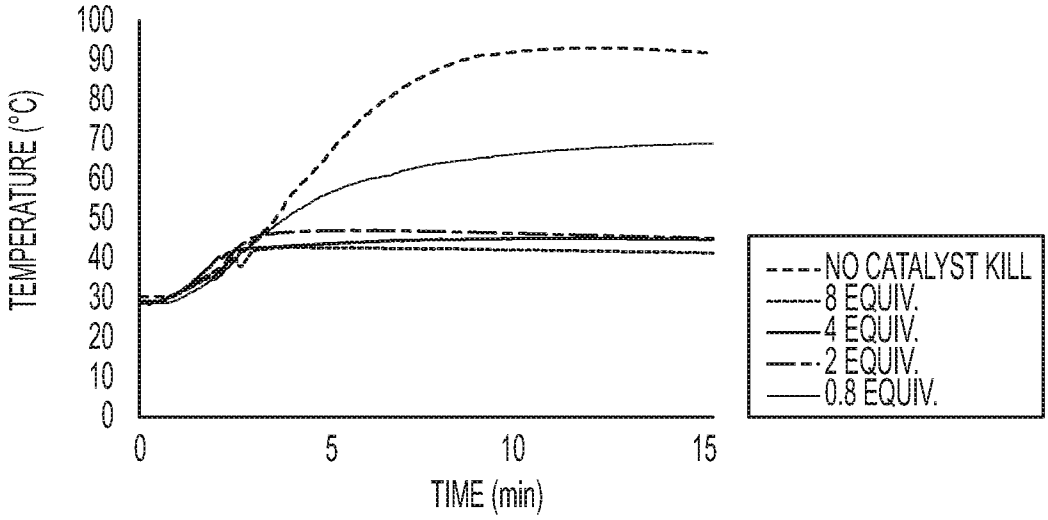

TEMPERATURE (°C)
100
90
80
70
60
50
40
30
20
10
0
0
5
10
15
TIME (min)
NO CATALYST KILL
8 EQUIV.
4 EQUIV.
2 EQUIV.
0.8 EQUIV.

FIG. 2C

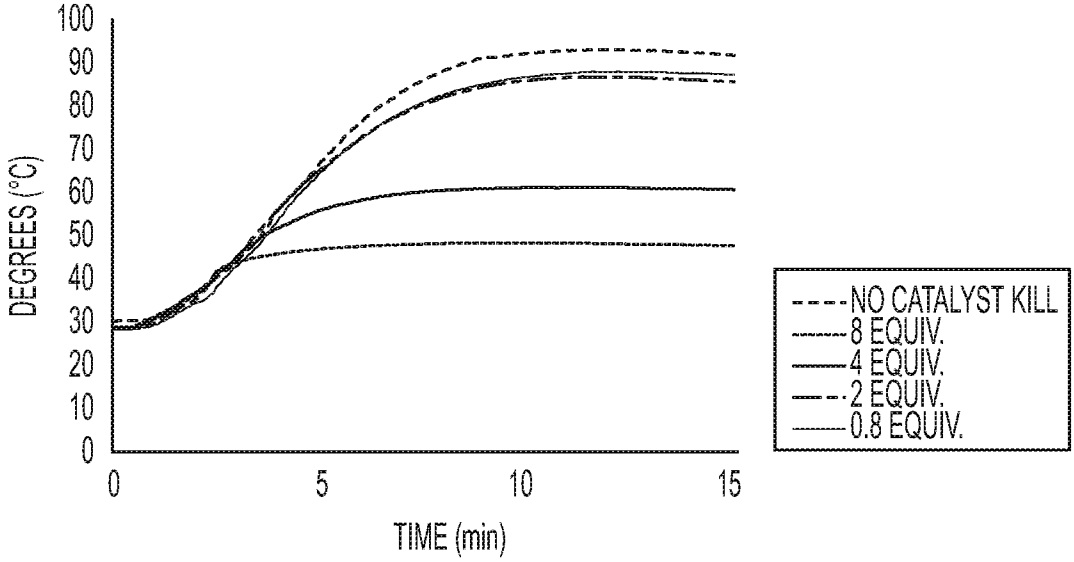

DEGREES (°C)
100
90
80
70
60
50
40
30
20
10
0
0
5
10
15
TIME (min)
NO CATALYST KILL
8 EQUIV.
4 EQUIV.
2 EQUIV.
0.8 EQUIV.

FIG. 2D

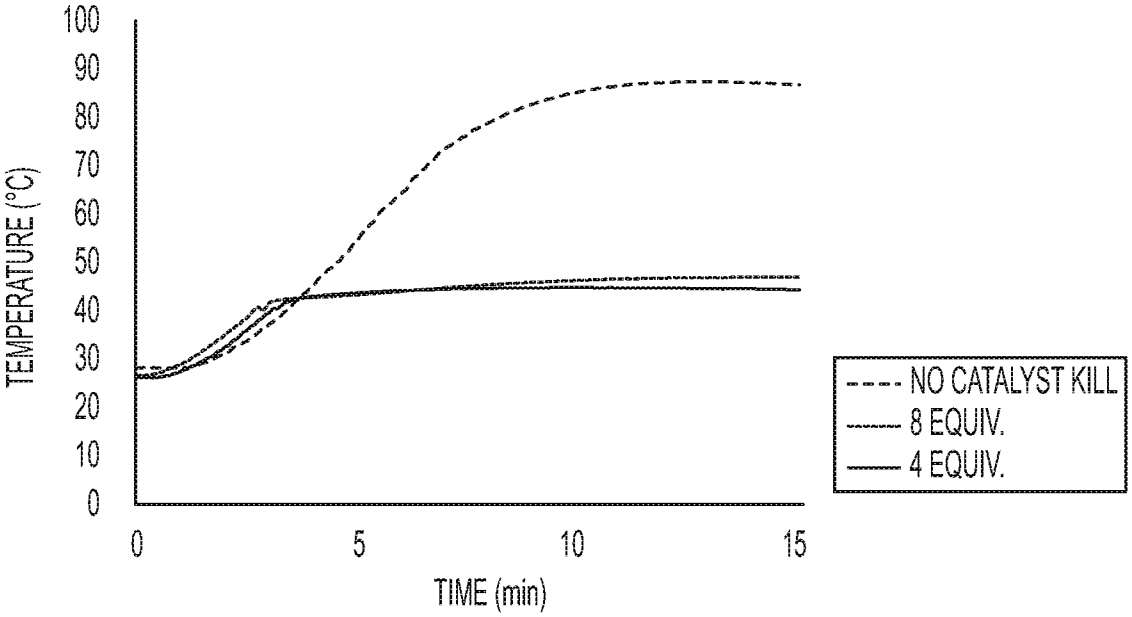

100
90
80
70
60
50
40
30
20
10
0
TEMPERATURE (°C)
0
5
10
15
TIME (min)
NO CATALYST KILL
8 EQUIV.
4 EQUIV.

FIG. 2E

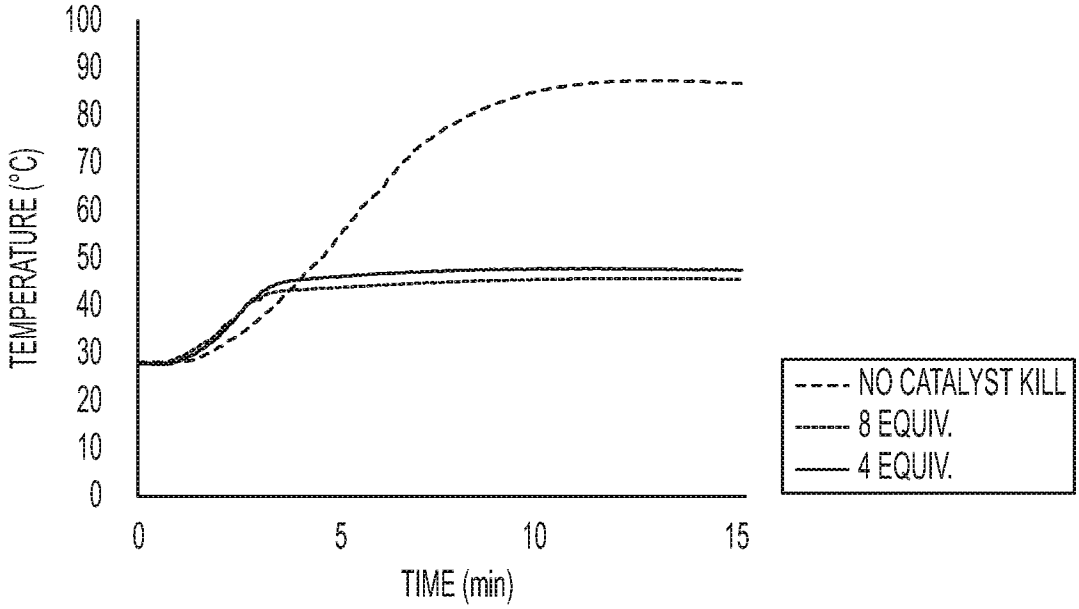

100
90
80
70
60
50
40
30
20
10
0
TEMPERATURE (°C)
0
5
10
15
TIME (min)
NO CATALYST KILL
8 EQUIV.
4 EQUIV.

FIG. 2F

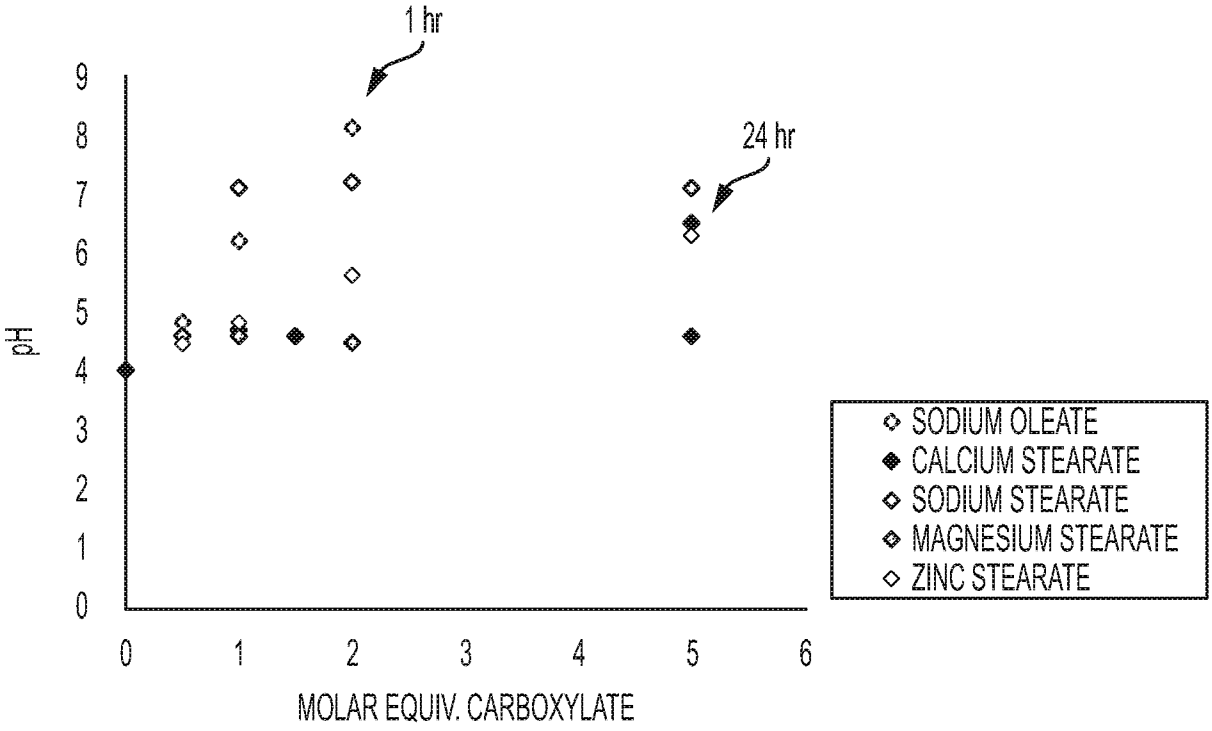

1 hr
24 hr
pH
9
8
7
6
5
4
3
2
1
0
0
1
2
3
4
5
6
MOLAR EQUIV. CARBOXYLATE
SODIUM OLEATE
CALCIUM STEARATE
SODIUM STEARATE
MAGNESIUM STEARATE
ZINC STEARATE

FIG. 3

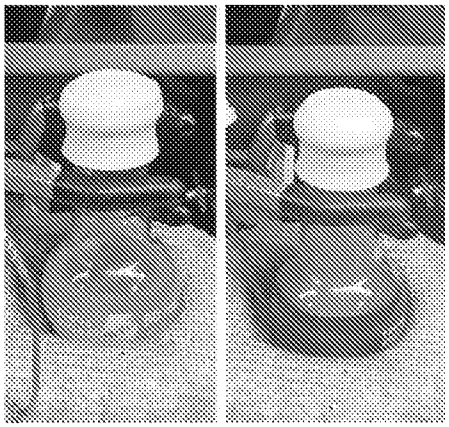


FIG. 4A

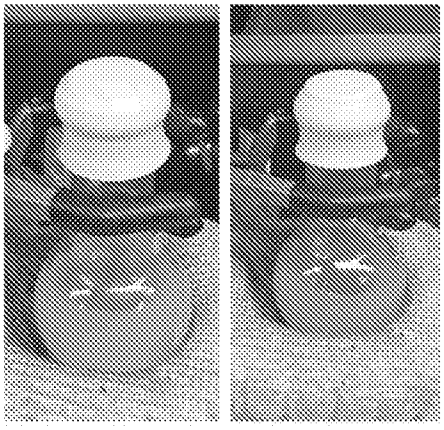


FIG. 4B

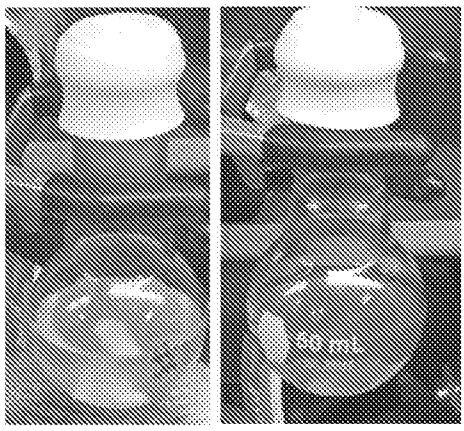


FIG. 4C

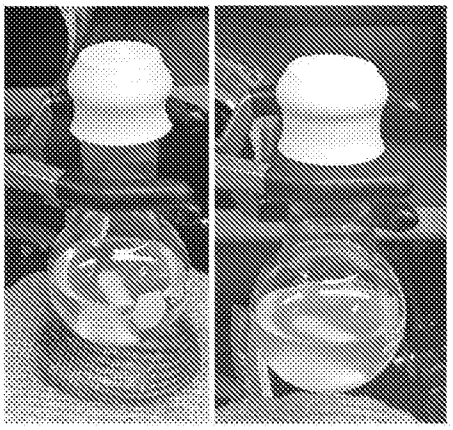


FIG. 4D

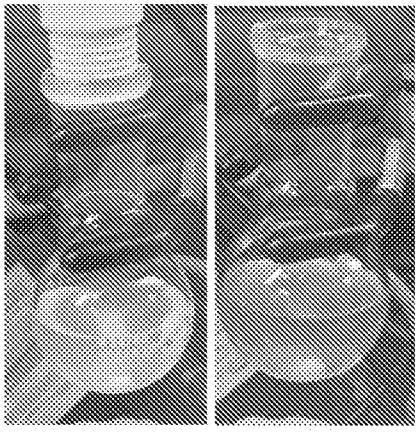


FIG. 4E

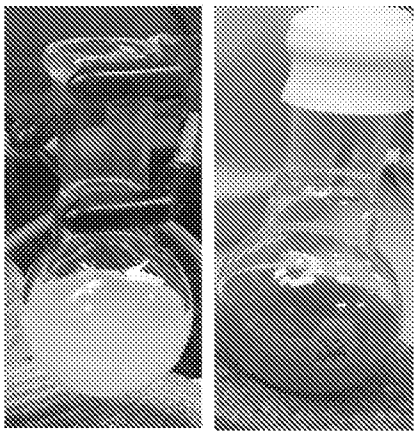


FIG. 4F