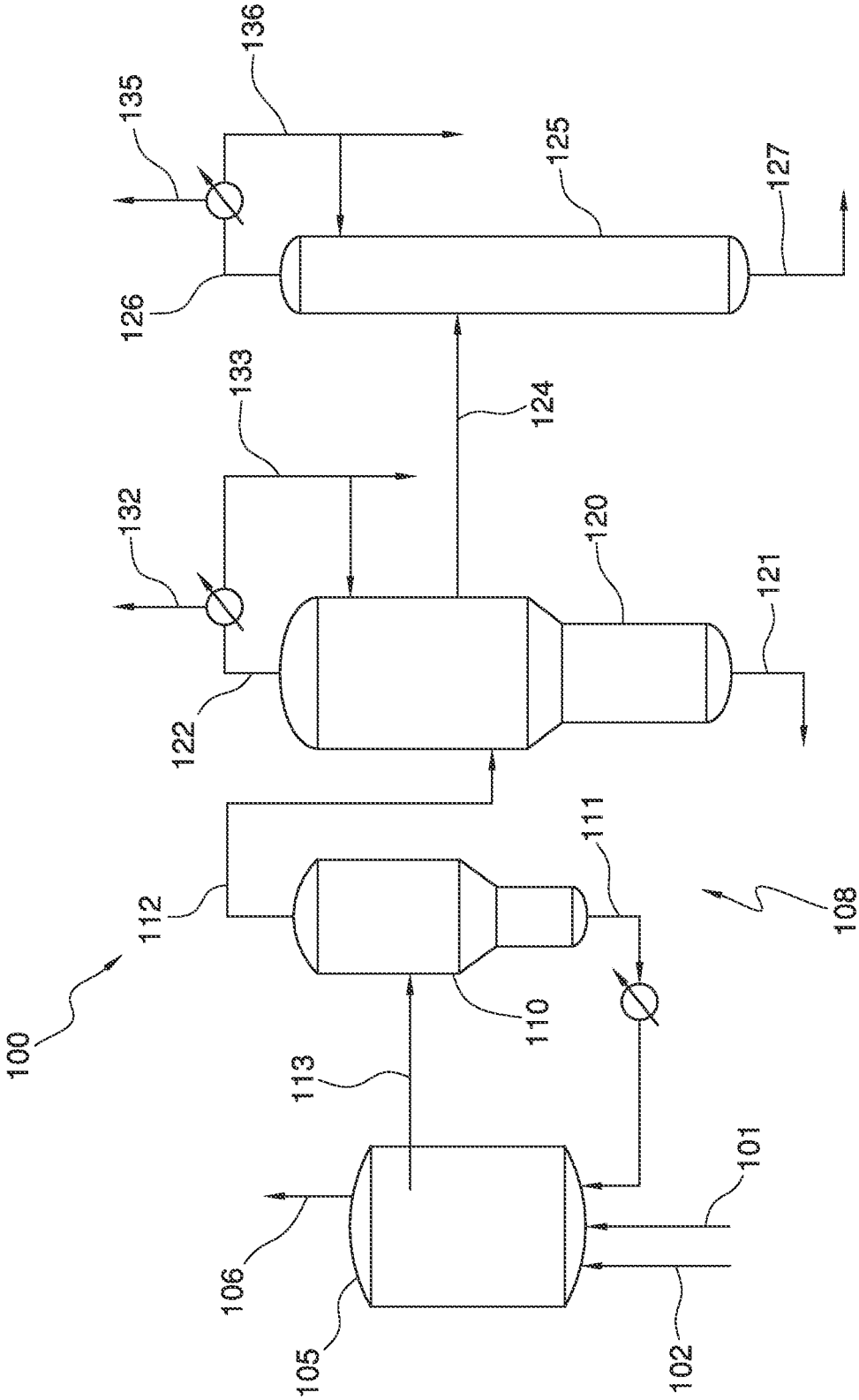

136
135
125
127
126
133
124
132
120
121
122
111
112
108
100
110
113
101
106
105
102

FIG. 1

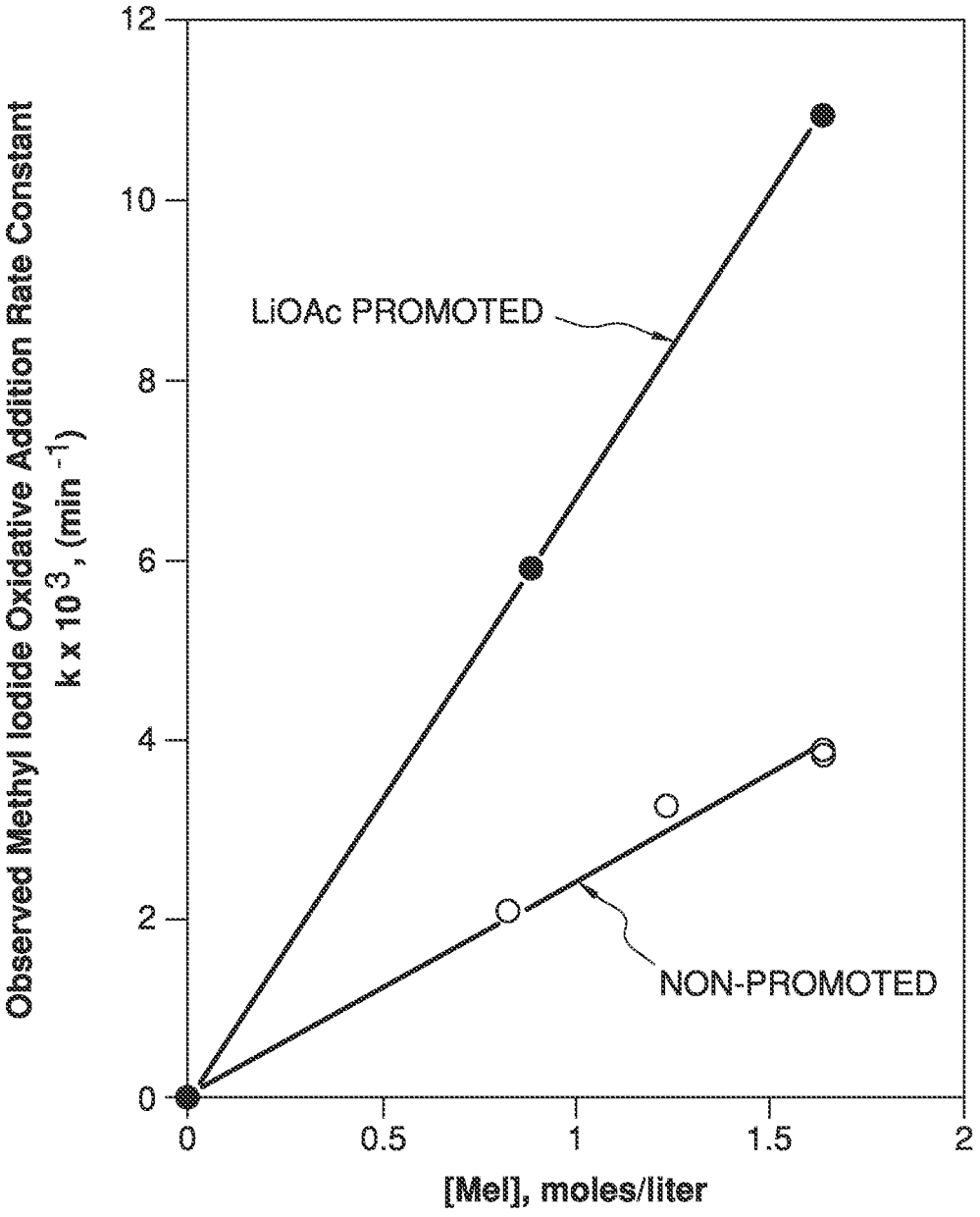

Observed Methyl Iodide Oxidative Addition Rate Constant
k x 10^3, (min^-1)
12
10
8
6
4
2
0
LiOAc PROMOTED
NON-PROMOTED
0
0.5
1
1.5
2
[MeI], moles/liter

FIG. 2

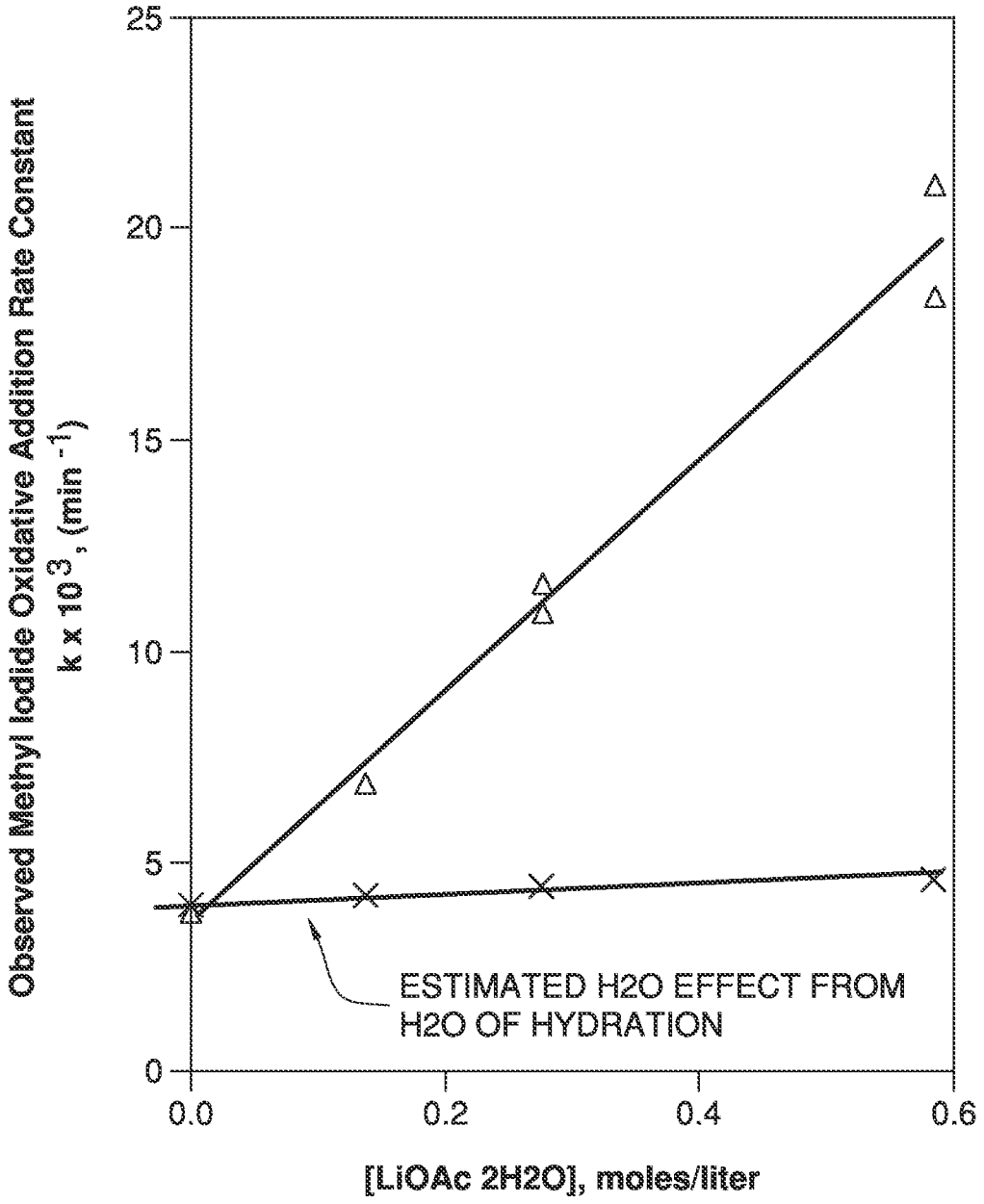

Observed Methyl Iodide Oxidative Addition Rate Constant
k x 10^3, (min^-1)
25
20
15
10
5
0
0.0
0.2
0.4
0.6
[LiOAc 2H2O], moles/liter
ESTIMATED H2O EFFECT FROM
H2O OF HYDRATION

FIG. 3

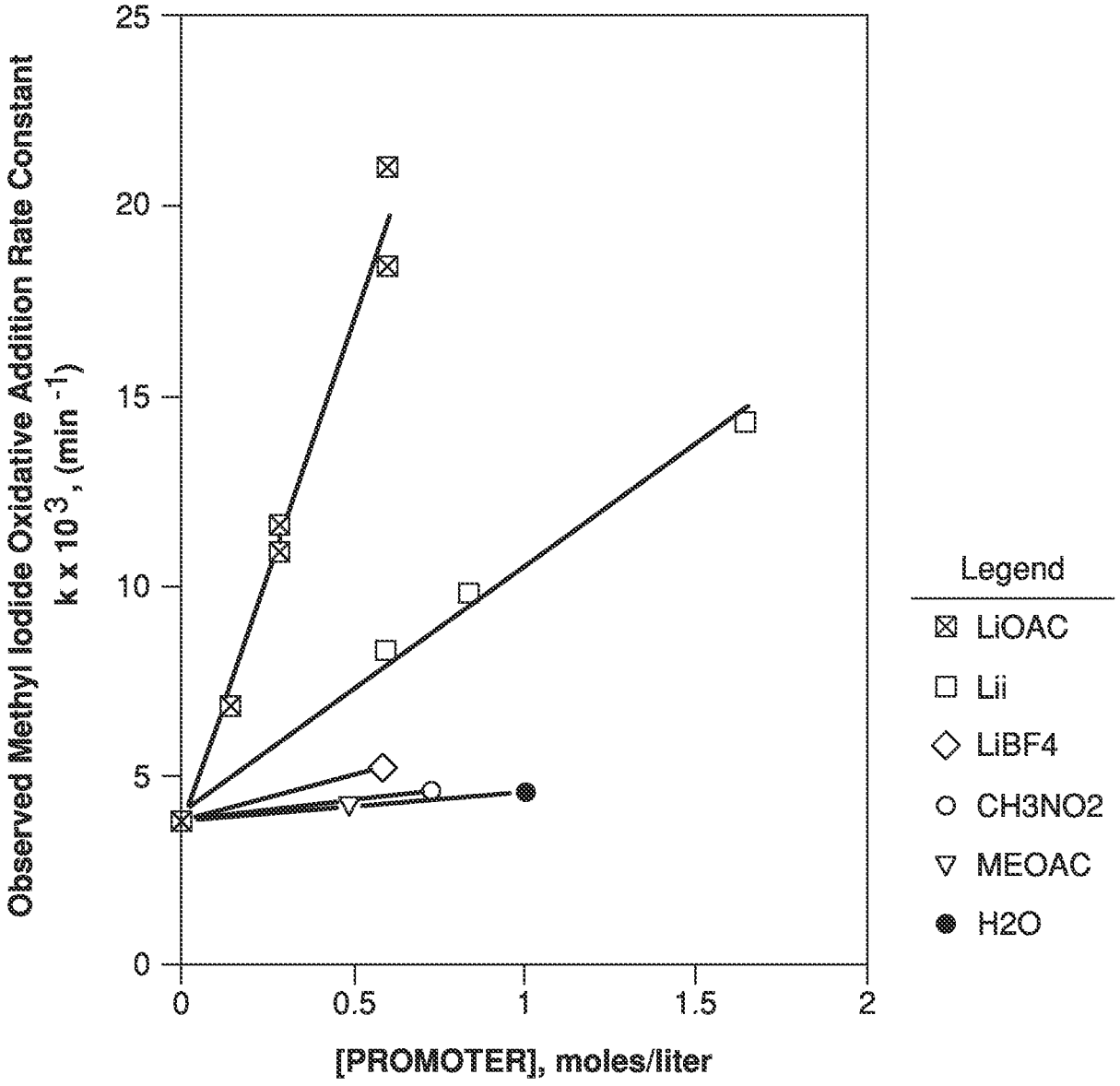

Observed Methyl Iodide Oxidative Addition Rate Constant
k x 10^3, (min^-1)
25
20
15
10
5
0
0
0.5
1
1.5
2
[PROMOTER], moles/liter
Legend
LiOAC
LiI
LiBF4
CH3NO2
MEOAC
H2O

FIG. 4