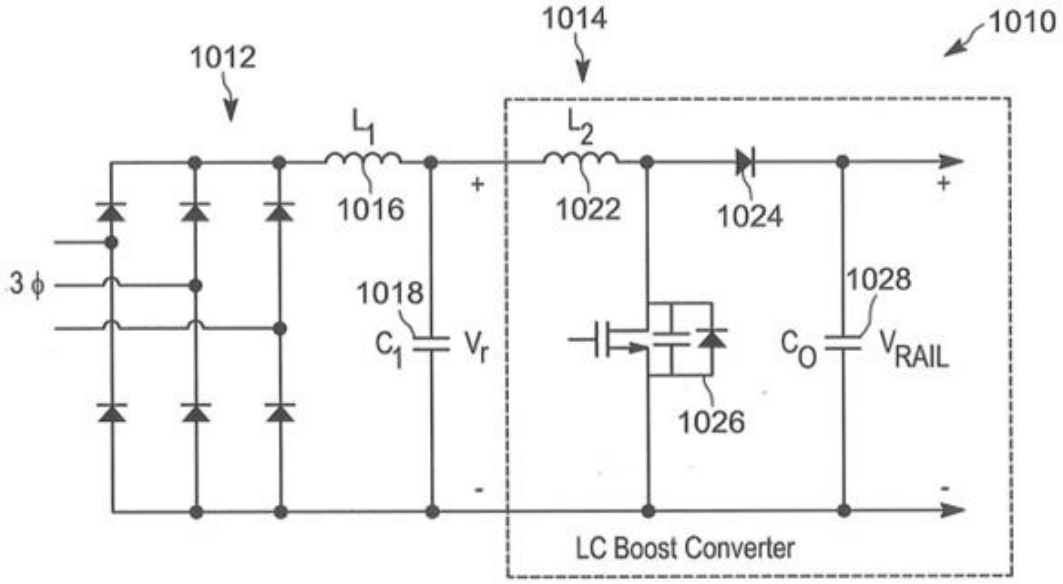

1010
1012
1014
L1
L2
1016
1022
1024
1018
1028
3 ϕ
C1
Vr
CO
VRAIL
1026
+
-
LC Boost Converter

FIG. 10

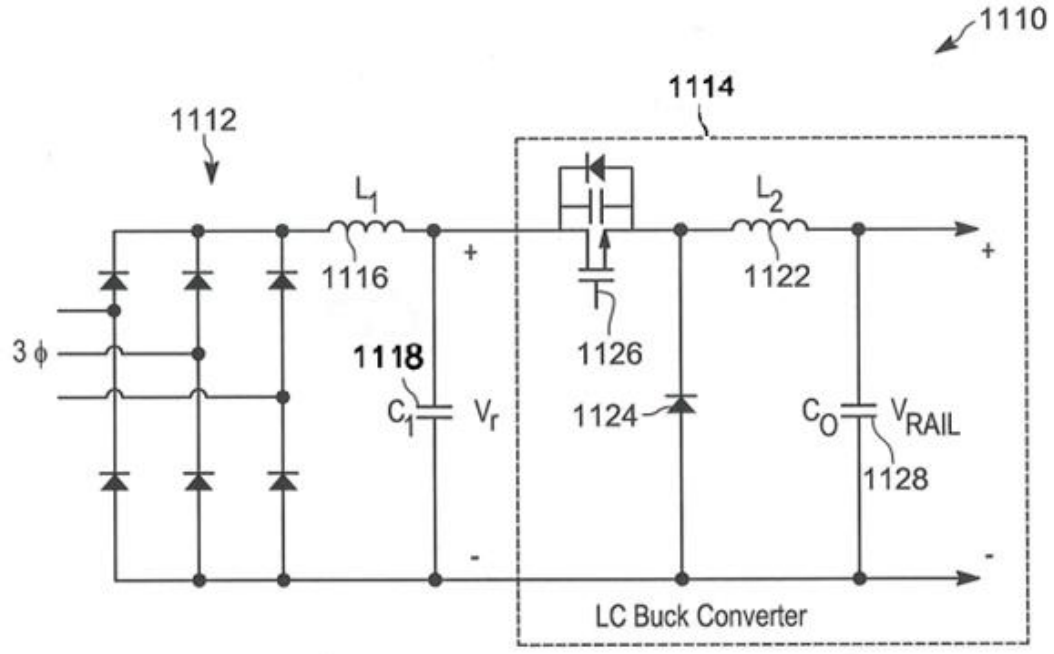

1110
1114
1112
L1
L2
1116
1122
1126
1118
3 ϕ
C1
Vr
1124
CO
VRAIL
1128
+
-
LC Buck Converter

FIG. 11

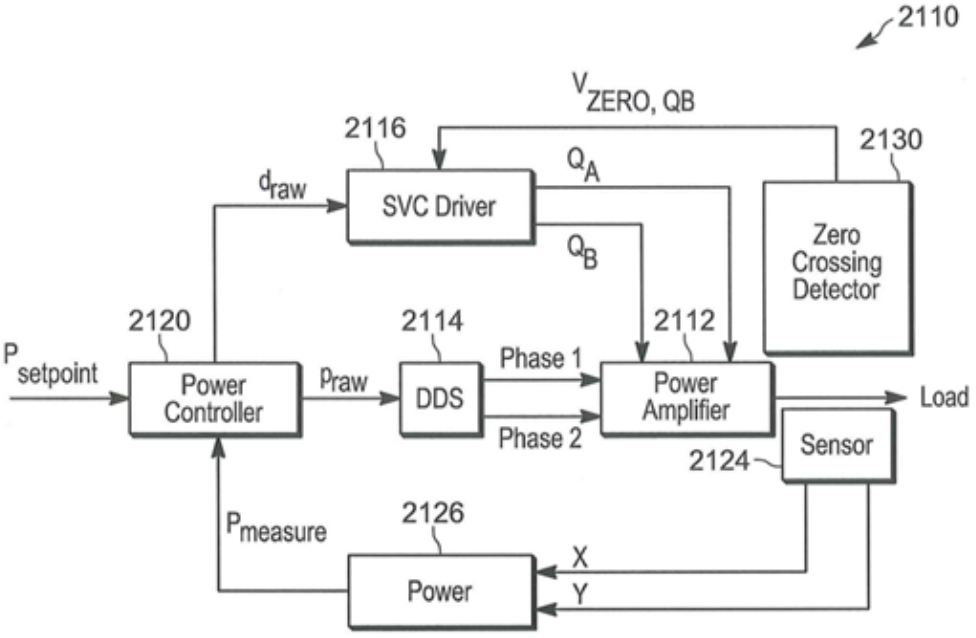

2110
$V_{ZERO, QB}$
2116
2130
Q_A
d_{raw}
SVC Driver
Q_B
Zero Crossing Detector
2120
2114
2112
$P_{setpoint}$
Power Controller
p_{raw}
DDS
Phase 1
Phase 2
Power Amplifier
Load
Sensor
2124
$P_{measure}$
2126
X
Power
Y

FIG. 21

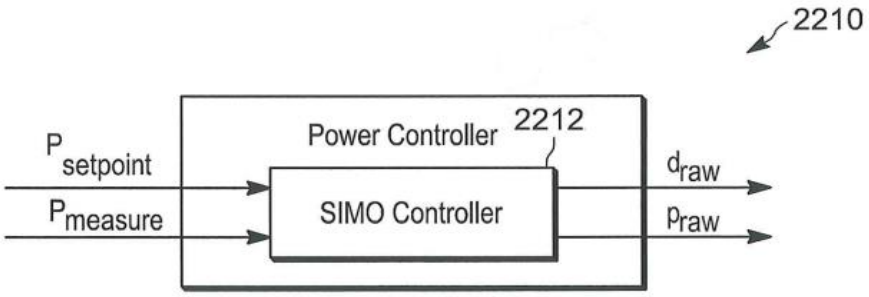

2210
Power Controller
2212
$P_{setpoint}$
d_{raw}
SIMO Controller
$P_{measure}$
p_{raw}

FIG. 22