FIG. 4

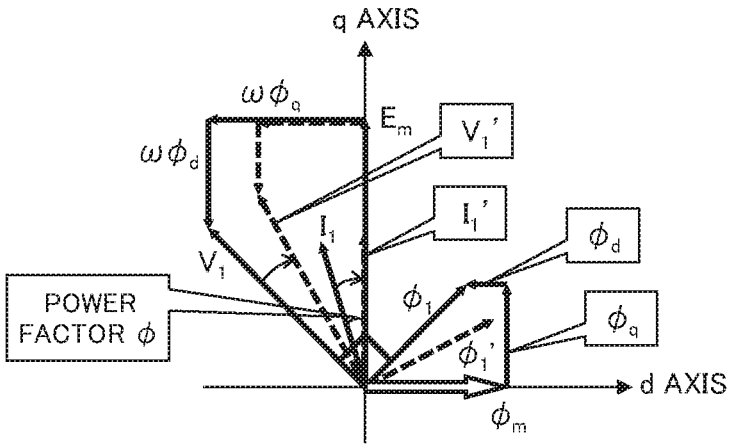
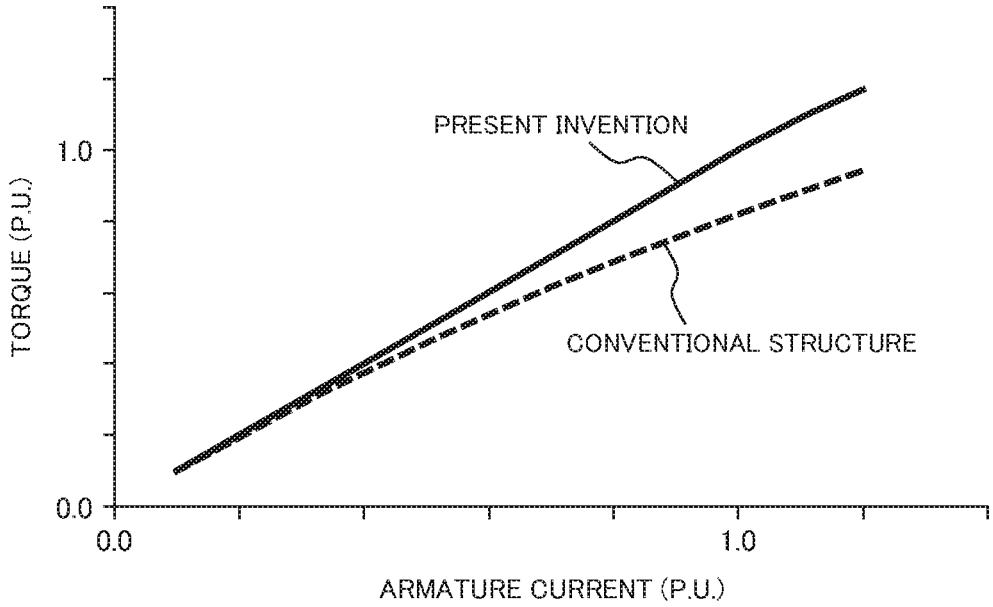

q AXIS
ωφq
Em
V1'
ωφd
I1'
I1
φd
V1
POWER
FACTOR φ
φ1
φq
φ1'
d AXIS
φm

FIG. 5


PRESENT INVENTION
1.0
TORQUE (P.U.)
CONVENTIONAL STRUCTURE
0.0
0.0
1.0
ARMATURE CURRENT (P.U.)