

FIG. 1(a)

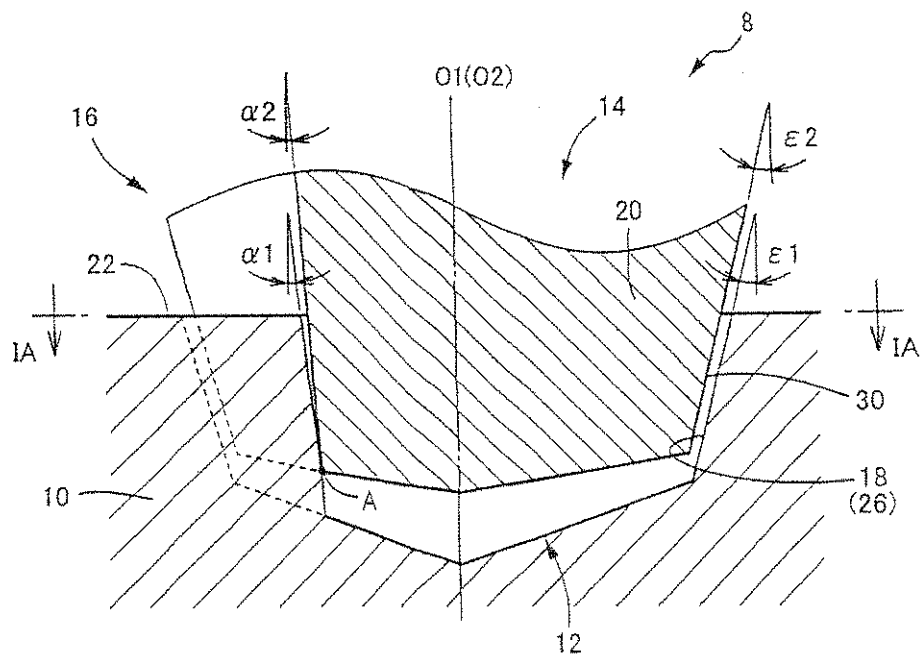
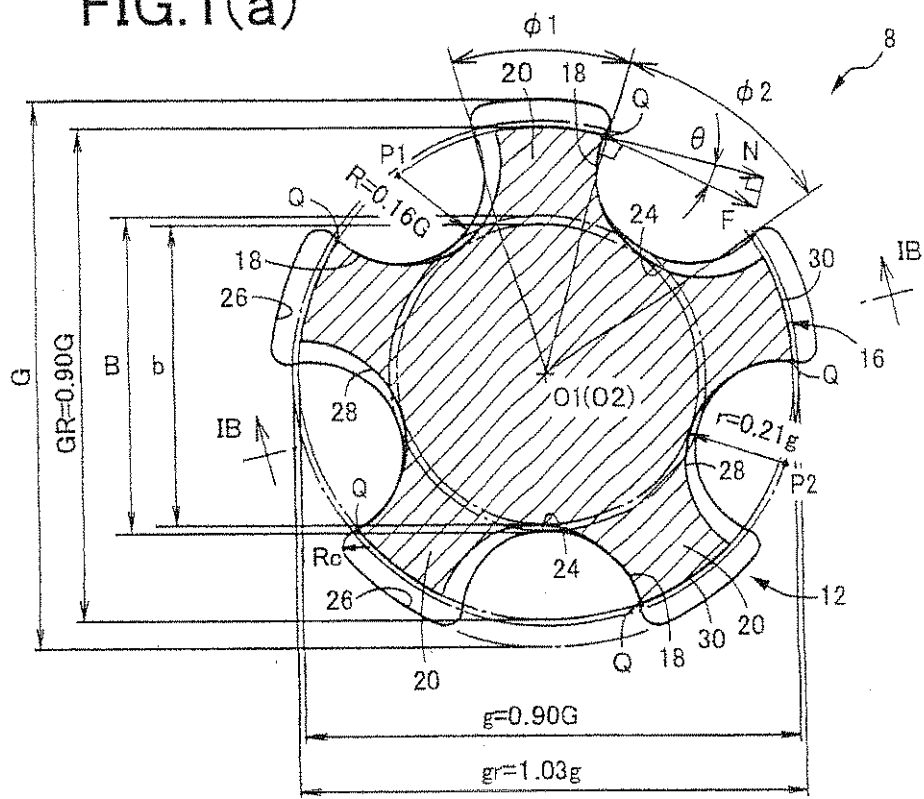


FIG. 1 (b)

FIG.2

DRIVING ANGLE $\theta(^{\circ})$	F/N
± 0	1.0000
-5	1.0038
-10	1.0154
-15	1.0353
-20	1.0642
-24.6	1.0999
-25	1.1034
-30	1.1547

FIG. 3(a) DRIVING ANGLE θ

R \ GR	0.85G	0.90G	0.95G
0.10G	-20.7°	-6.4°	+8.4°
0.15G	-19.2°	-9.6°	$\pm 0^\circ$
0.20G	-20.1°	-12.8°	-5.4°
0.25G	-22.0°	-16.1°	-10.1°
0.30G	-24.5°	-19.5°	-14.3°

FIG. 3(b) GRAPH

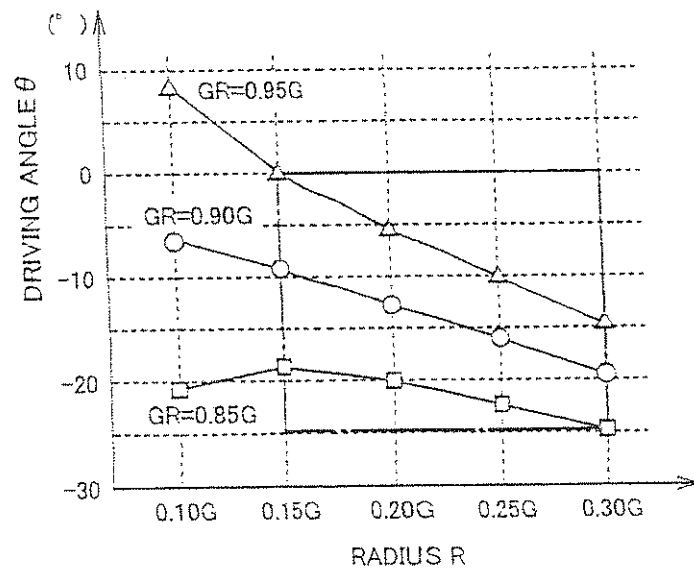


FIG. 4(a) THREE GROOVES

R \ GR	0.85G	0.90G	0.95G
0.10G	0.788	0.778	0.800
0.15G	0.680	0.680	0.693
0.20G	0.563	0.572	0.587
0.25G	0.449	0.463	0.480
0.30G	0.334	0.351	0.372

FIG. 4(b) FOUR GROOVES

R \ GR	0.85G	0.90G	0.95G
0.10G	0.720	0.717	0.733
0.15G	0.568	0.573	0.591
0.20G	0.418	0.429	0.449
0.25G	0.266	0.283	0.307
0.30G	NG	0.135	0.163

FIG. 4(c) FIVE GROOVES

R \ GR	0.85G	0.90G	0.95G
0.10G	0.647	0.646	0.667
0.15G	0.460	0.467	0.489
0.20G	0.272	0.286	0.311
0.25G	NG	0.104	0.133
0.30G	NG	NG	NG

FIG. 4(d) SIX GROOVES

R \ GR	0.85G	0.90G	0.95G
0.10G	0.557	0.575	0.600
0.15G	0.337	0.360	0.387
0.20G	0.110	0.143	0.173
0.25G	NG	NG	NG
0.30G	NG	NG	NG

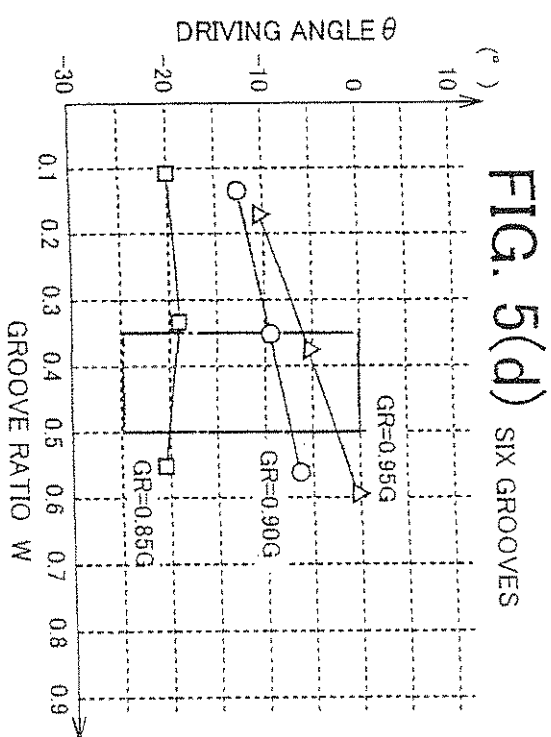
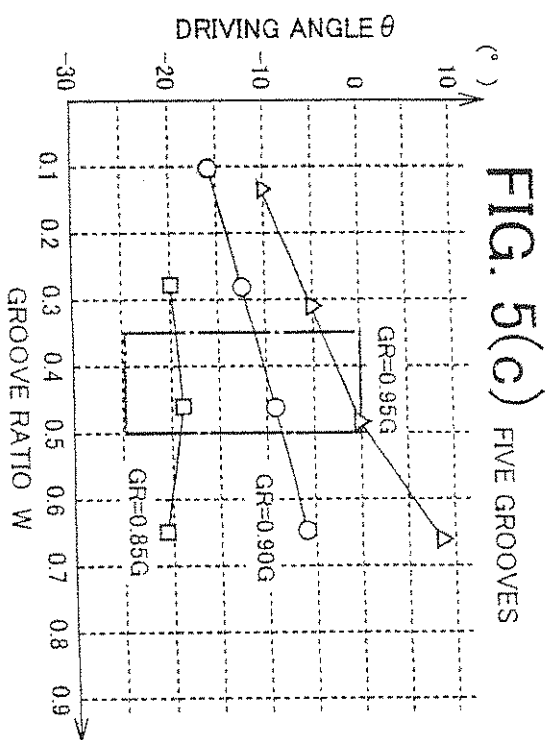
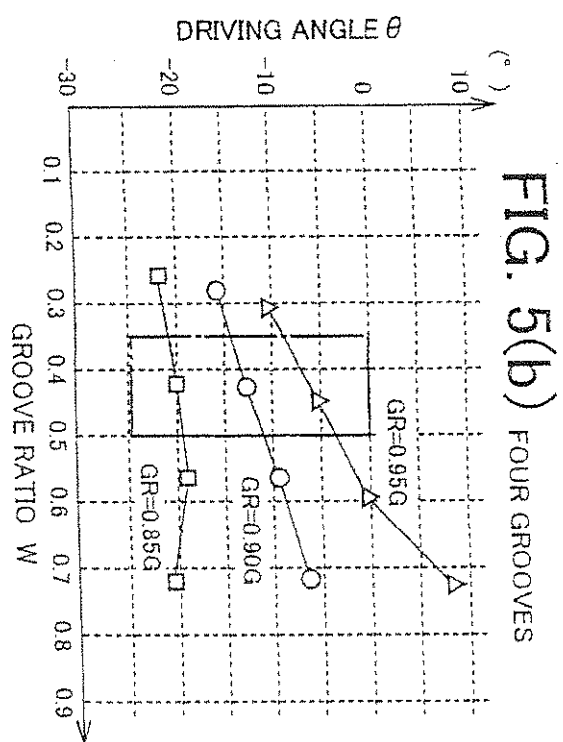
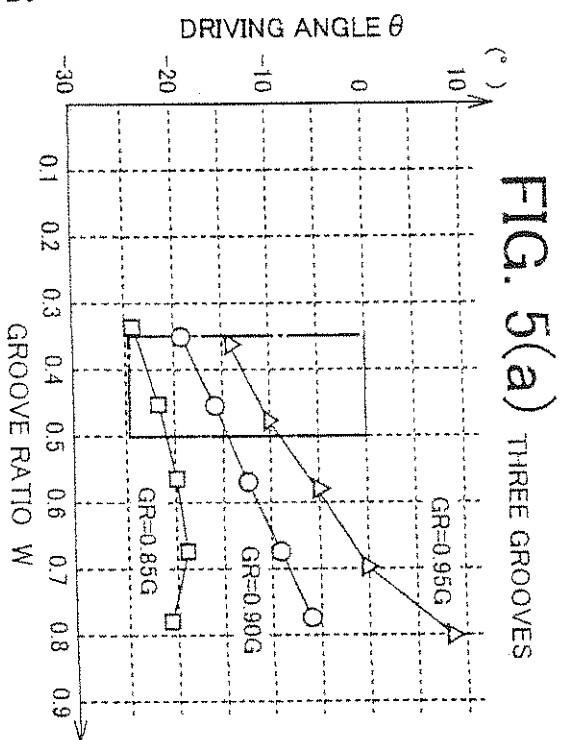


FIG. 6(a) _r

	r
R=0.15G	0.17g
R=0.20G	0.22g
R=0.25G	0.28g
R=0.30G	0.33g

FIG. 6(b) _{gr}

	gr
GR=0.85G	0.94g
GR=0.90G	1.00g
GR=0.95G	1.06g

FIG. 7

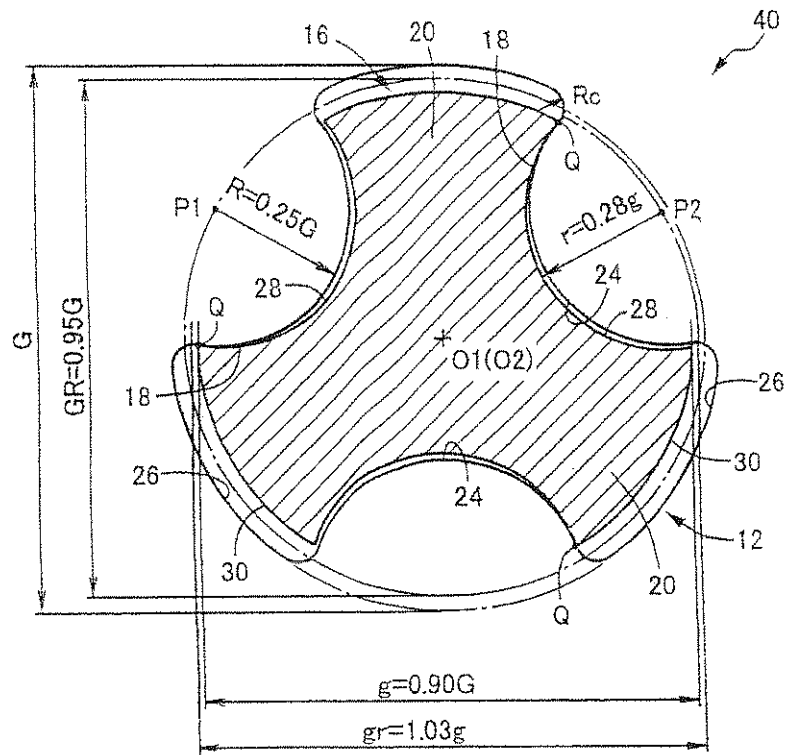


FIG. 8

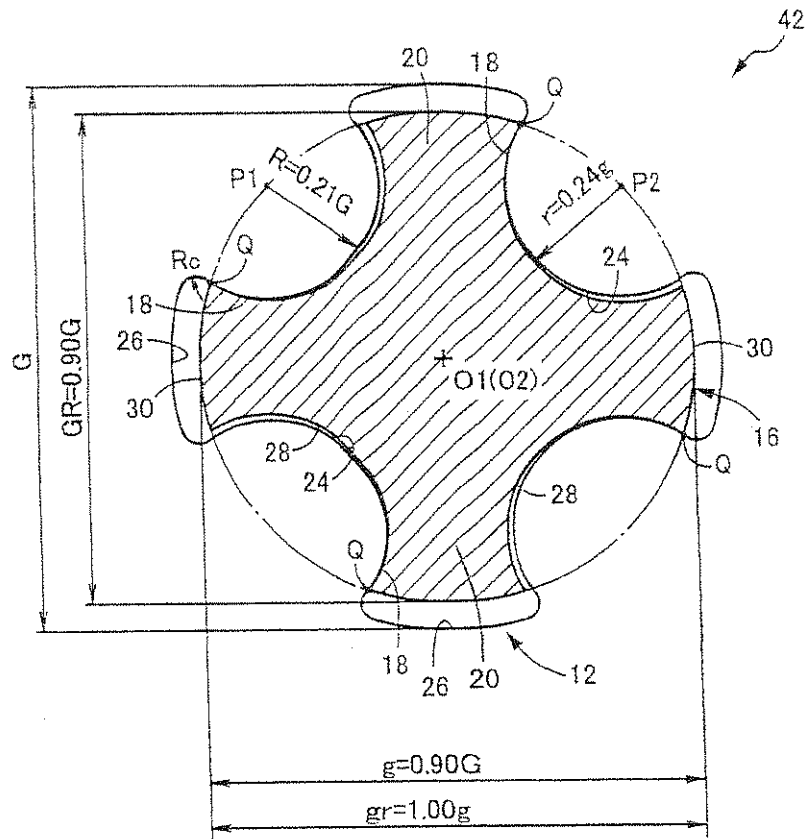


FIG. 9

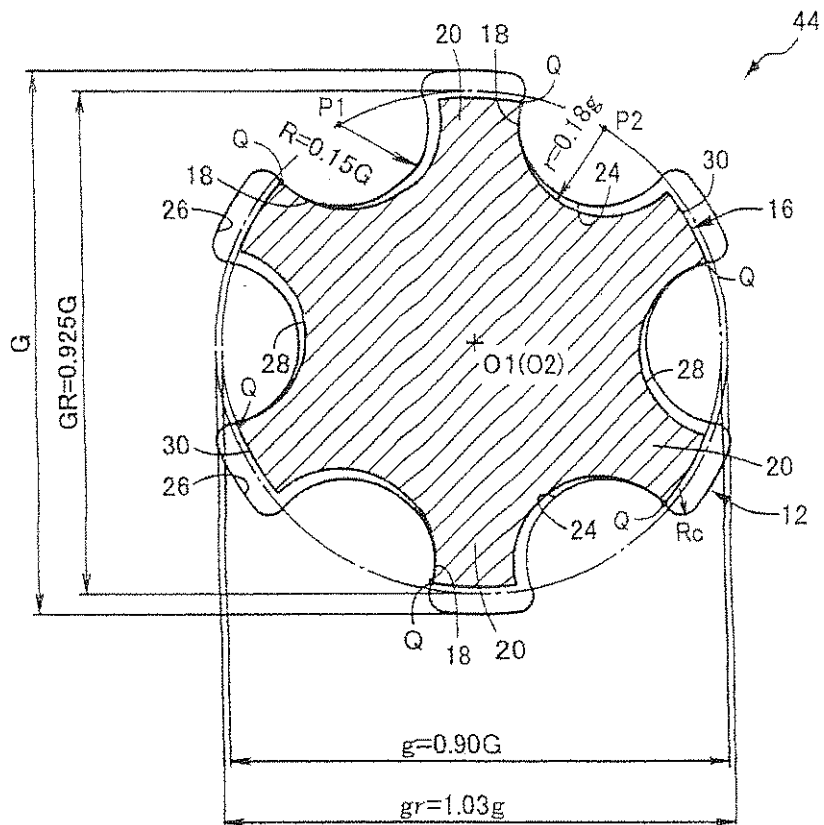


FIG. 10(a)

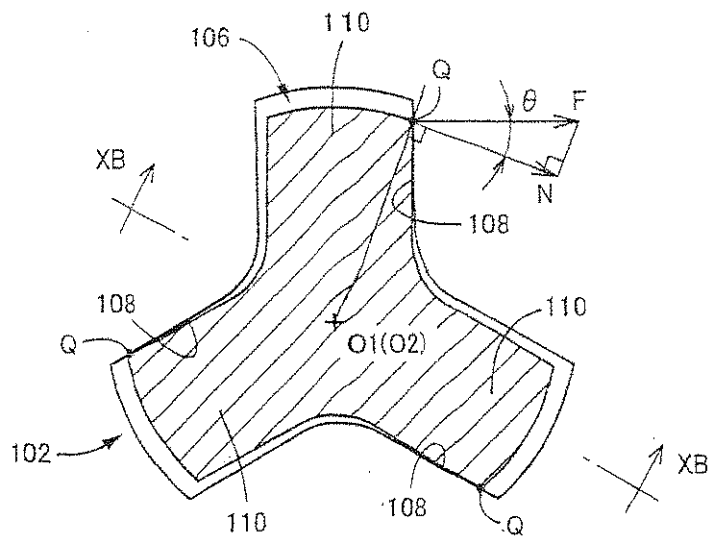


FIG. 10(b)

