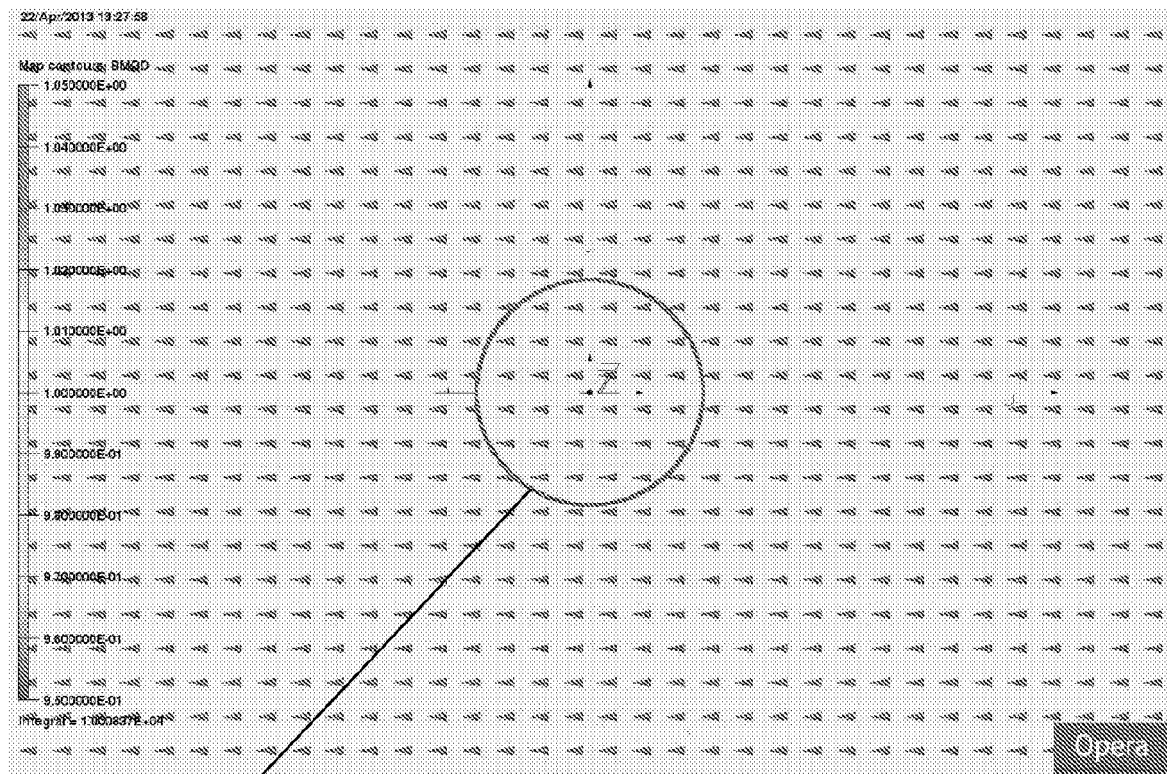
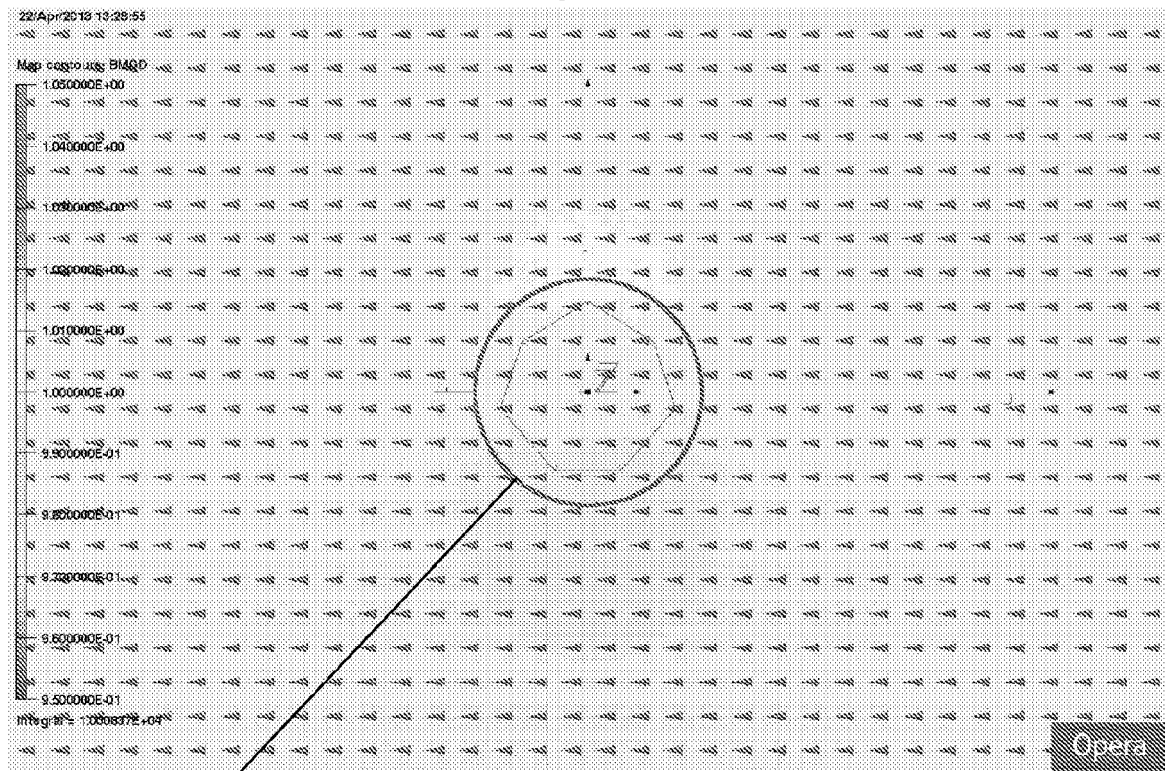


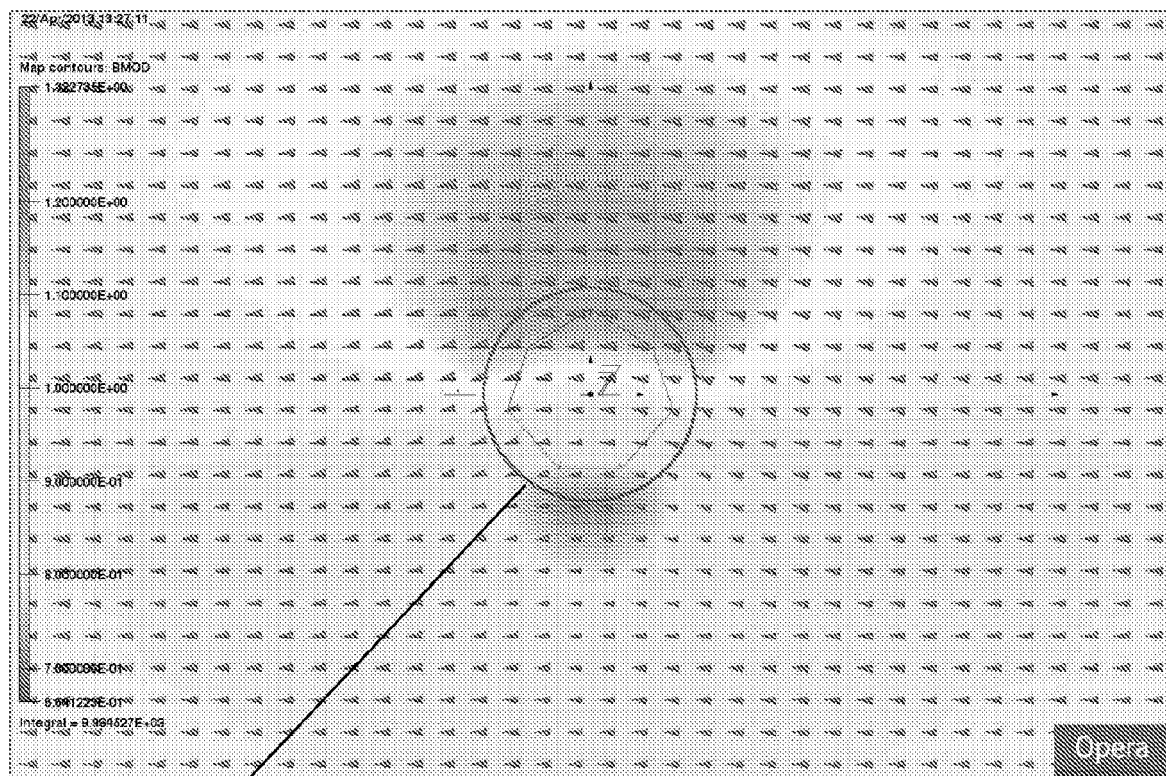


10 Background Field = 1T = 10 000 Gauss
Wire Field @R10mm = 0T = 0 Gauss
Current in Wire = 0A
Figure 1



10 Background Field = 1T = 10 000 Gauss
Wire Field @10mm R = 40 Gauss
Current in Wire = 200A

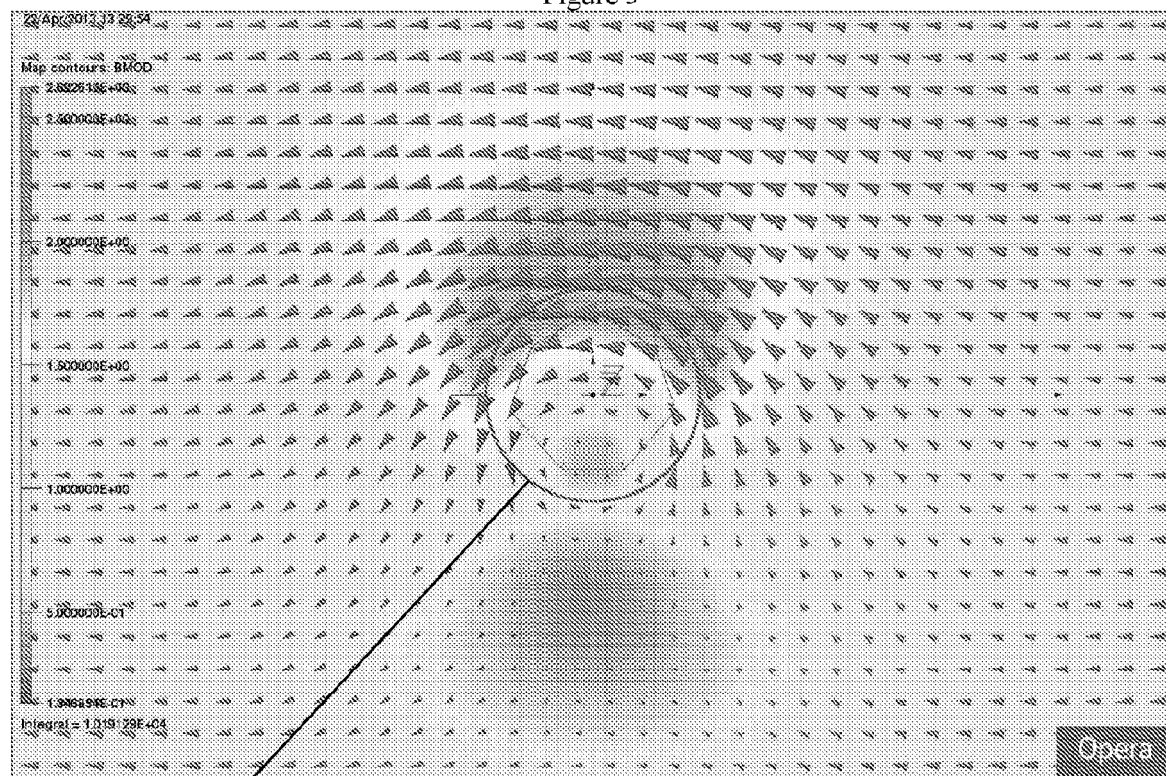
Figure 2



10

Background Field = 1T = 10 000 Gauss
Wire Field @R10mm = 0.2T = 2000 Gauss
Current in Wire = 10 159A

Figure 3



10

Background Field = 1T = 10 000 Gauss
Wire Field @R10mm = 1T = 10 000 Gauss
Current in Wire = 50 794A

Figure 4

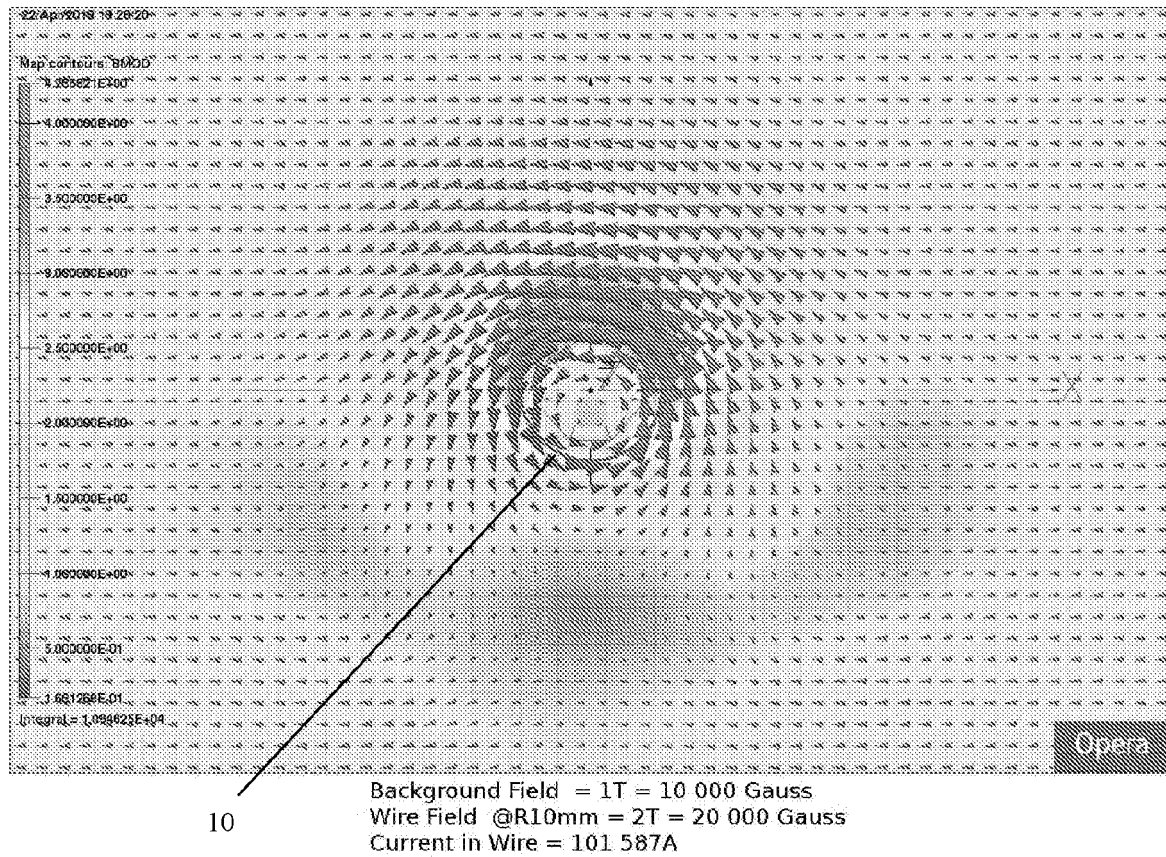


Figure 5

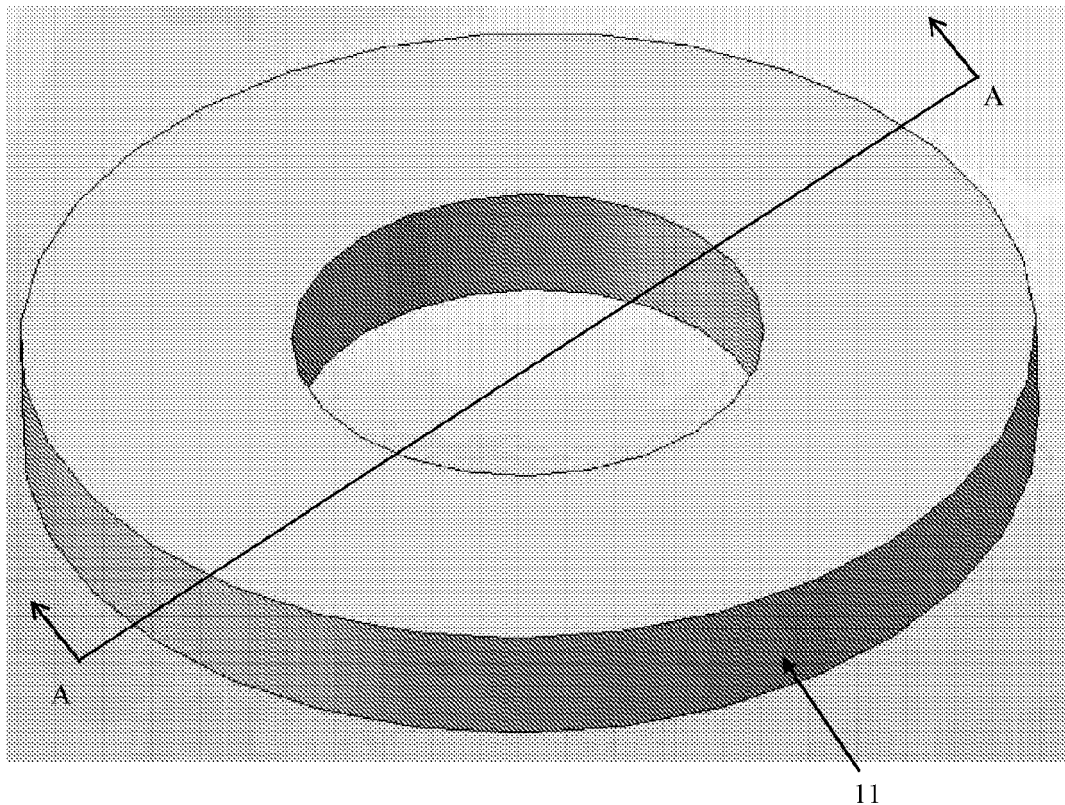


Figure 6

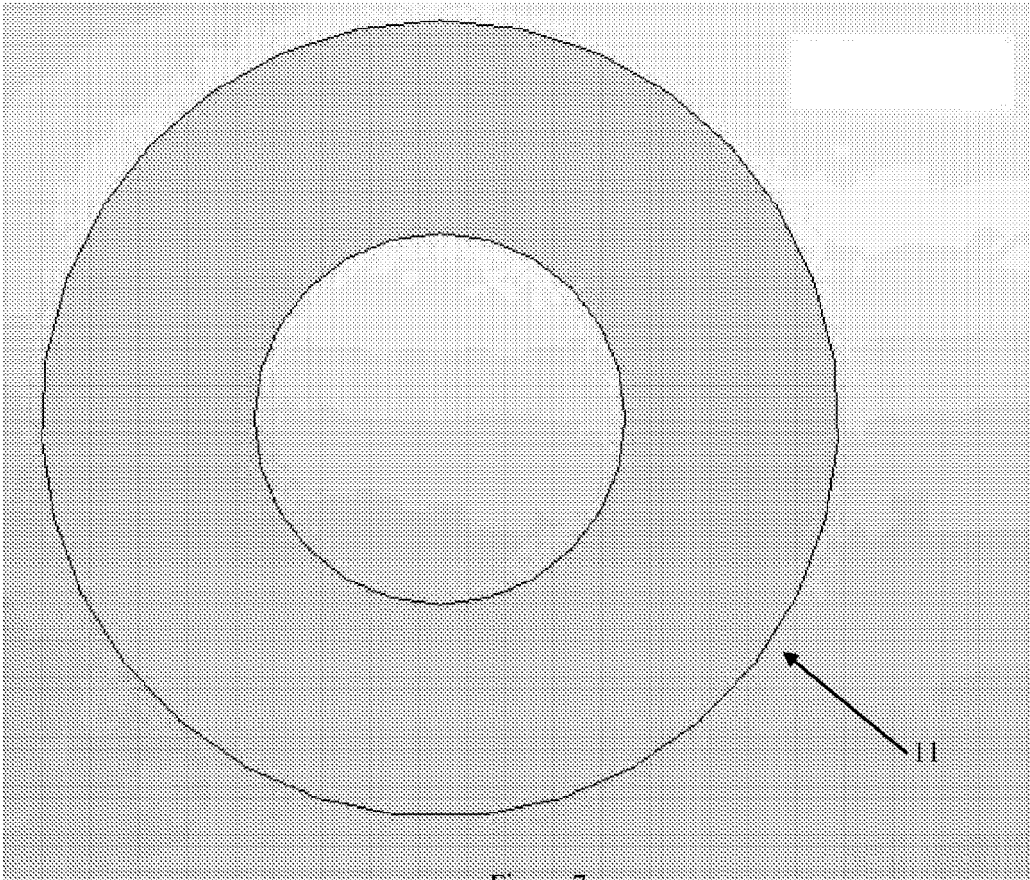


Figure 7

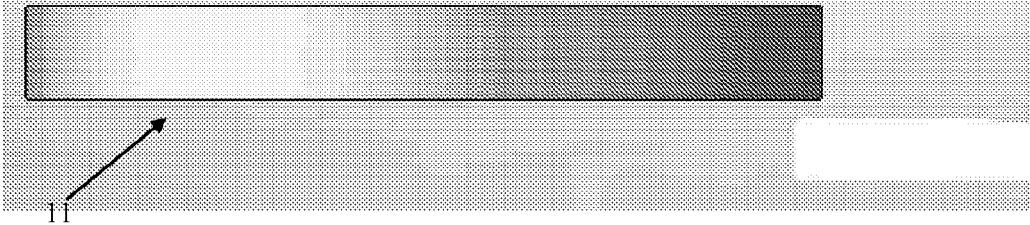


Figure 8

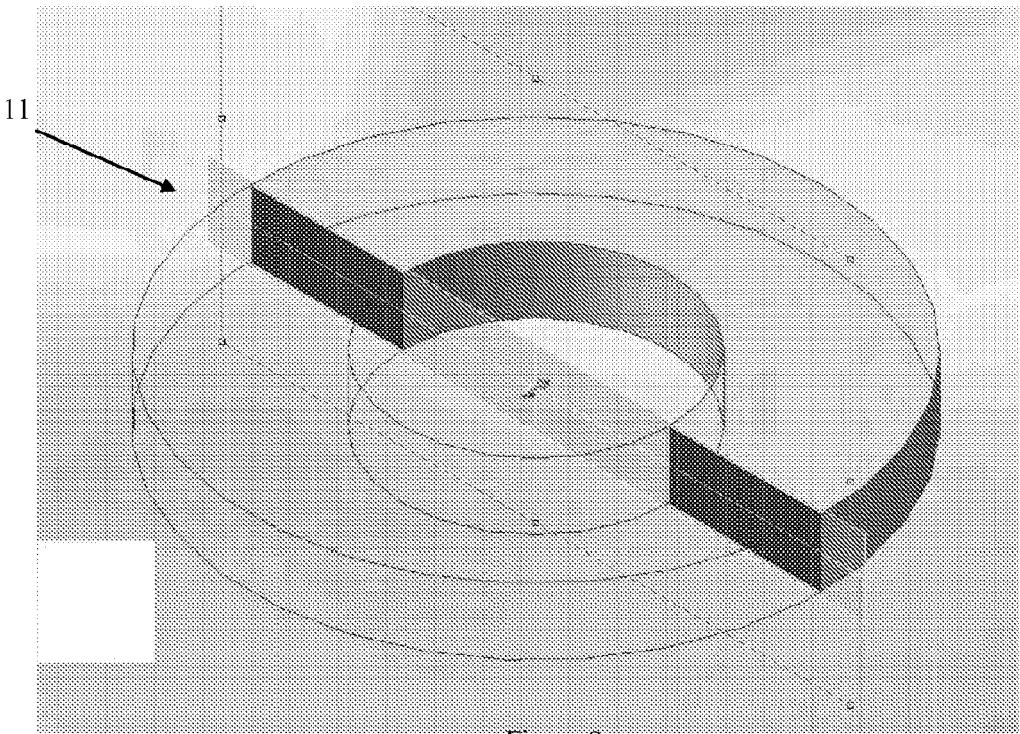


Figure 9

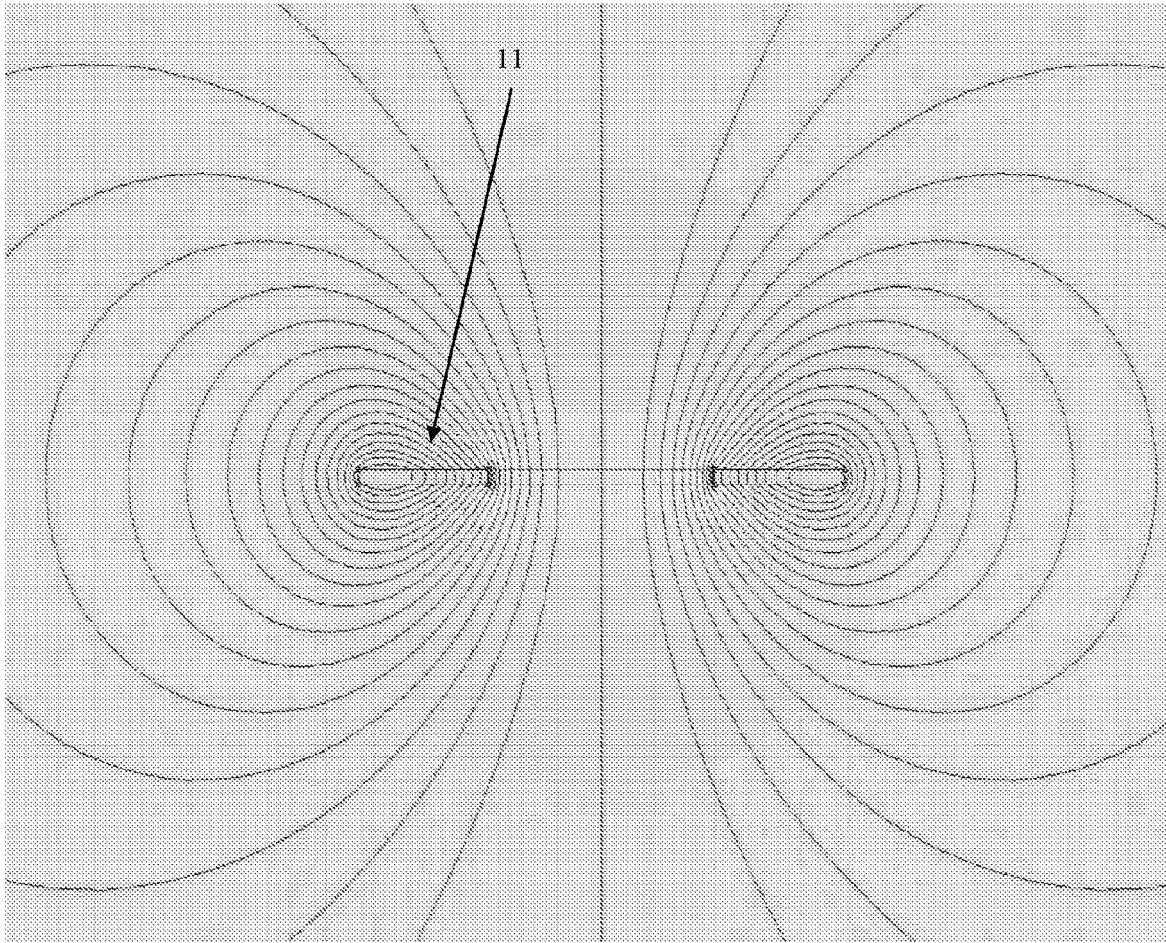


Figure 10

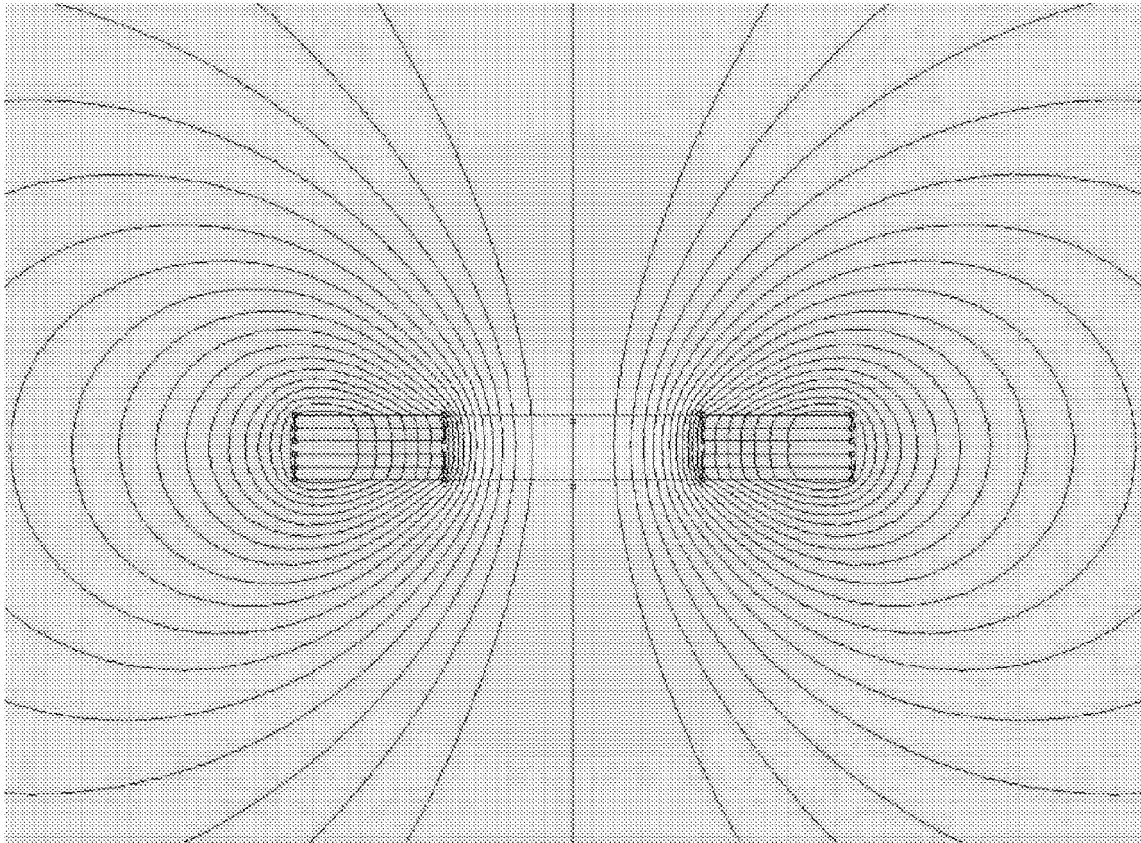


Figure 11

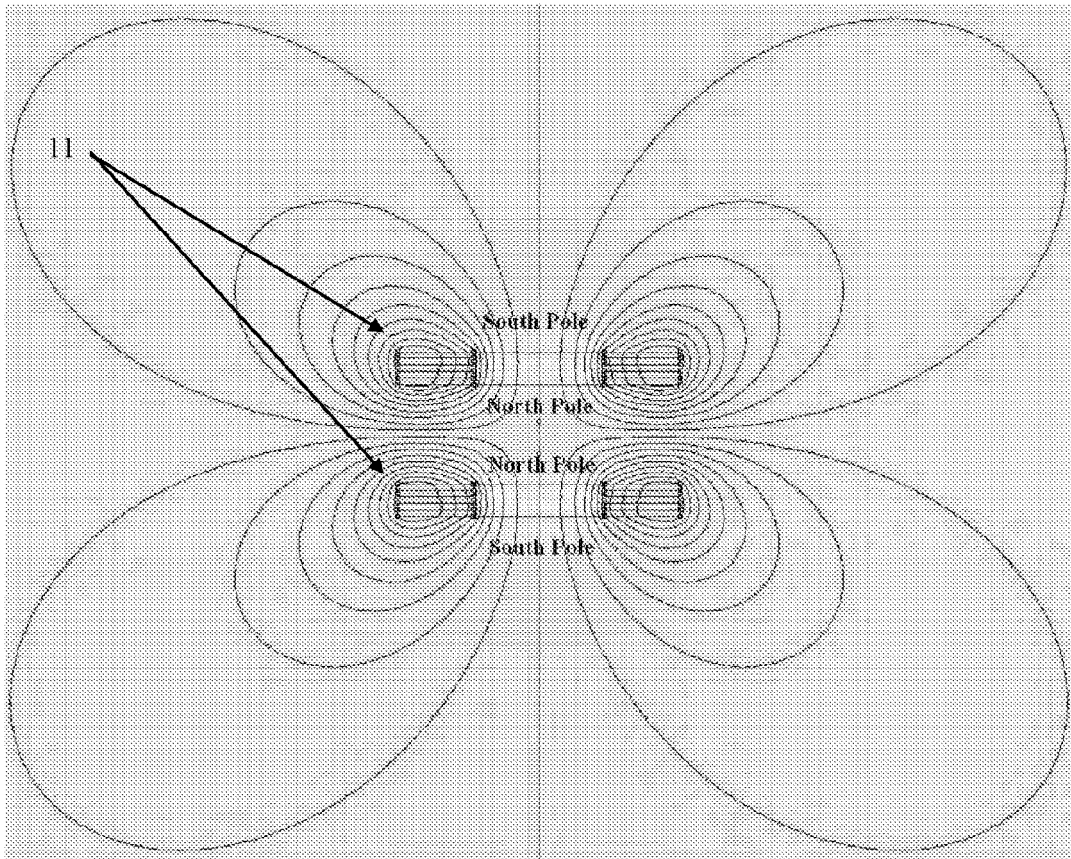


Figure 12

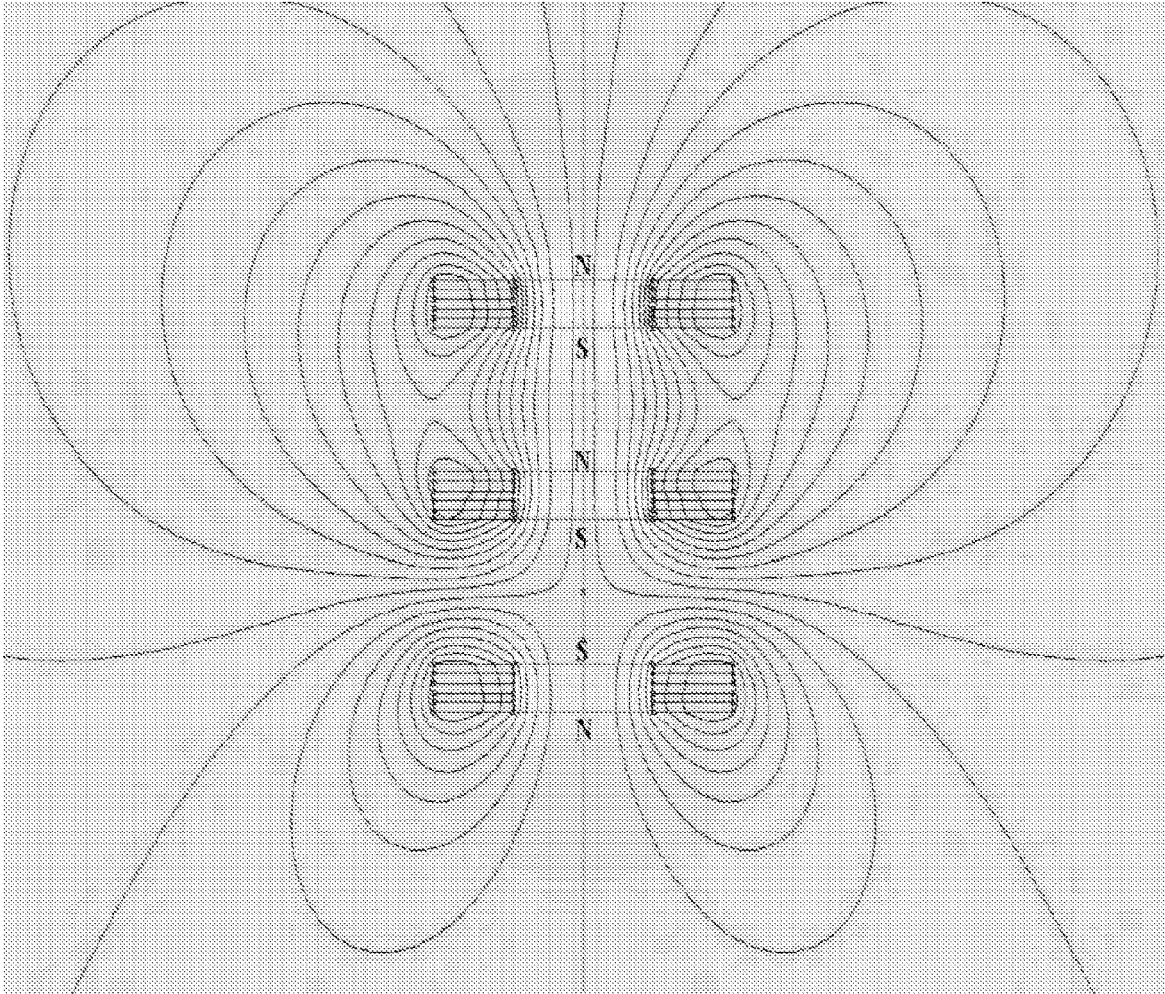


Figure 13

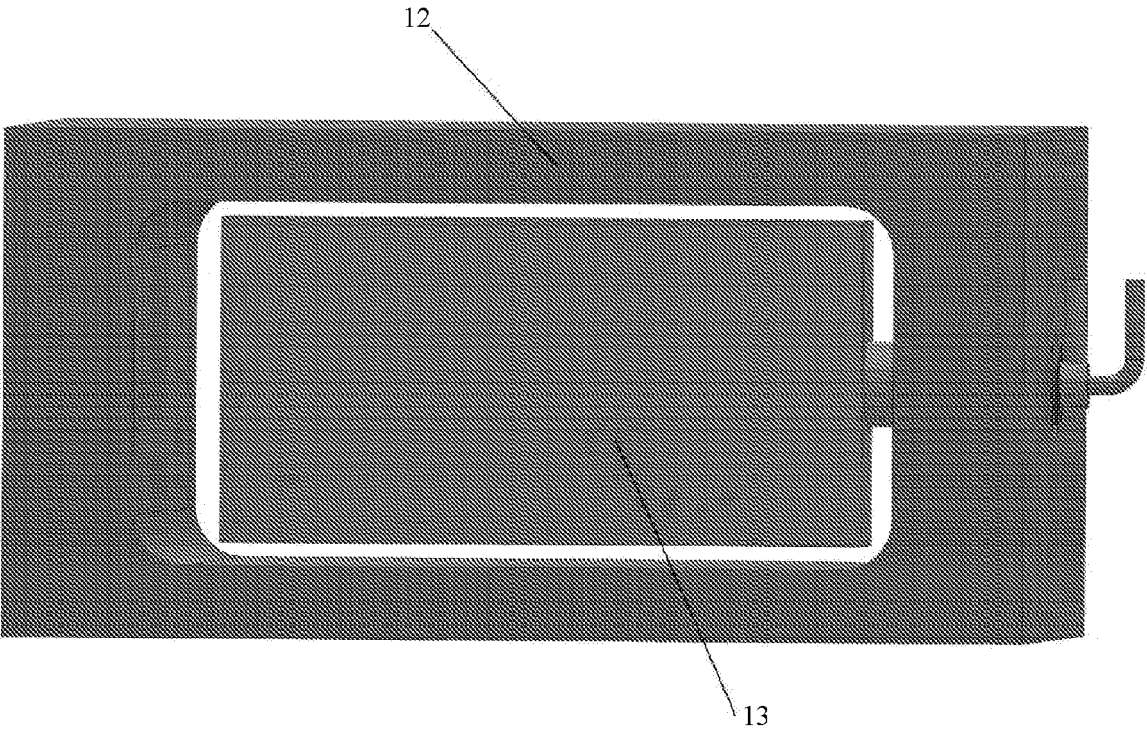


Figure 14

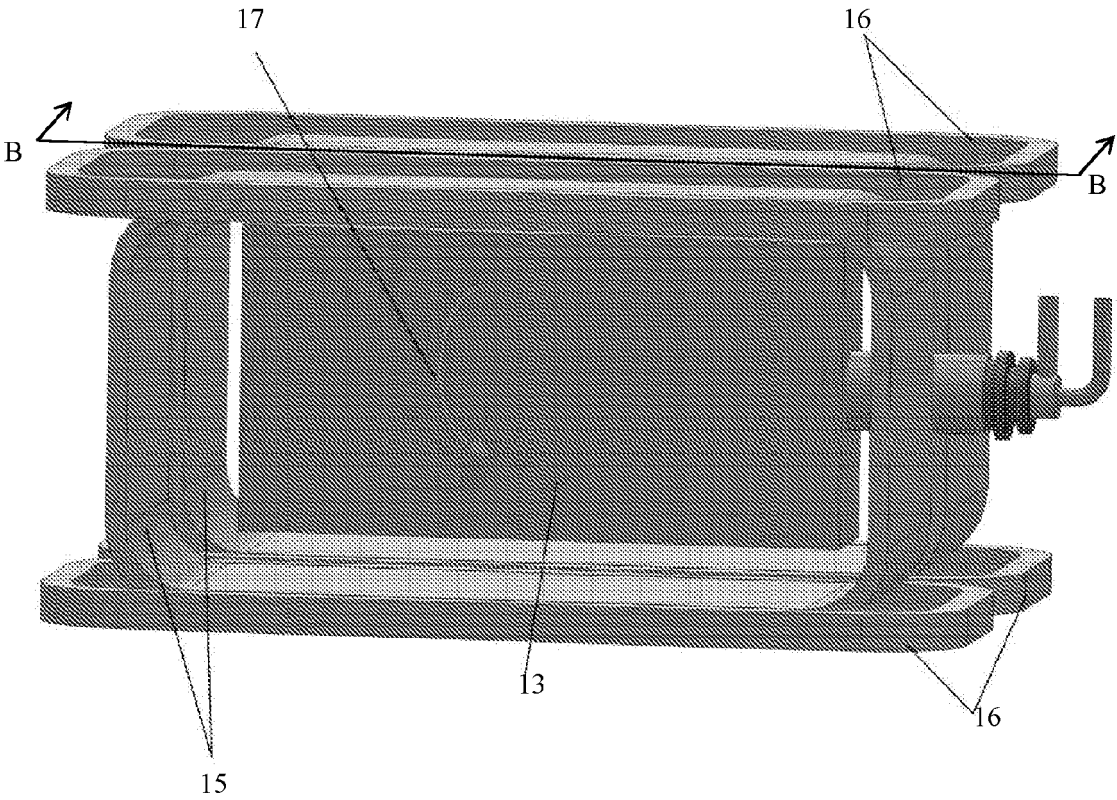


Figure 15

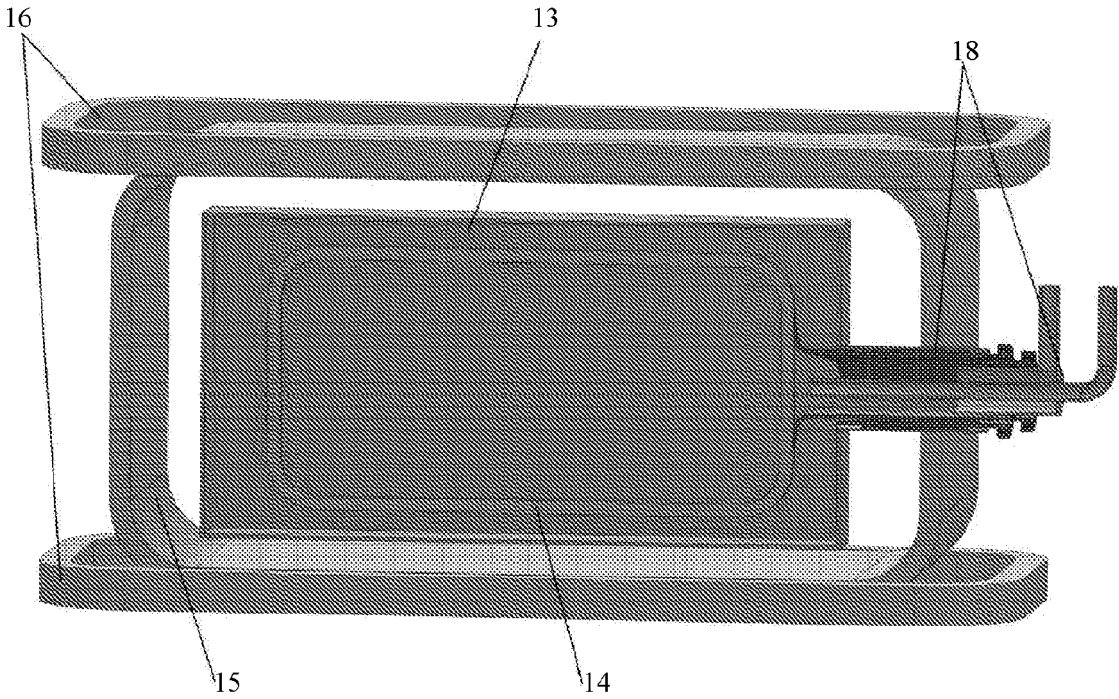


Figure 16

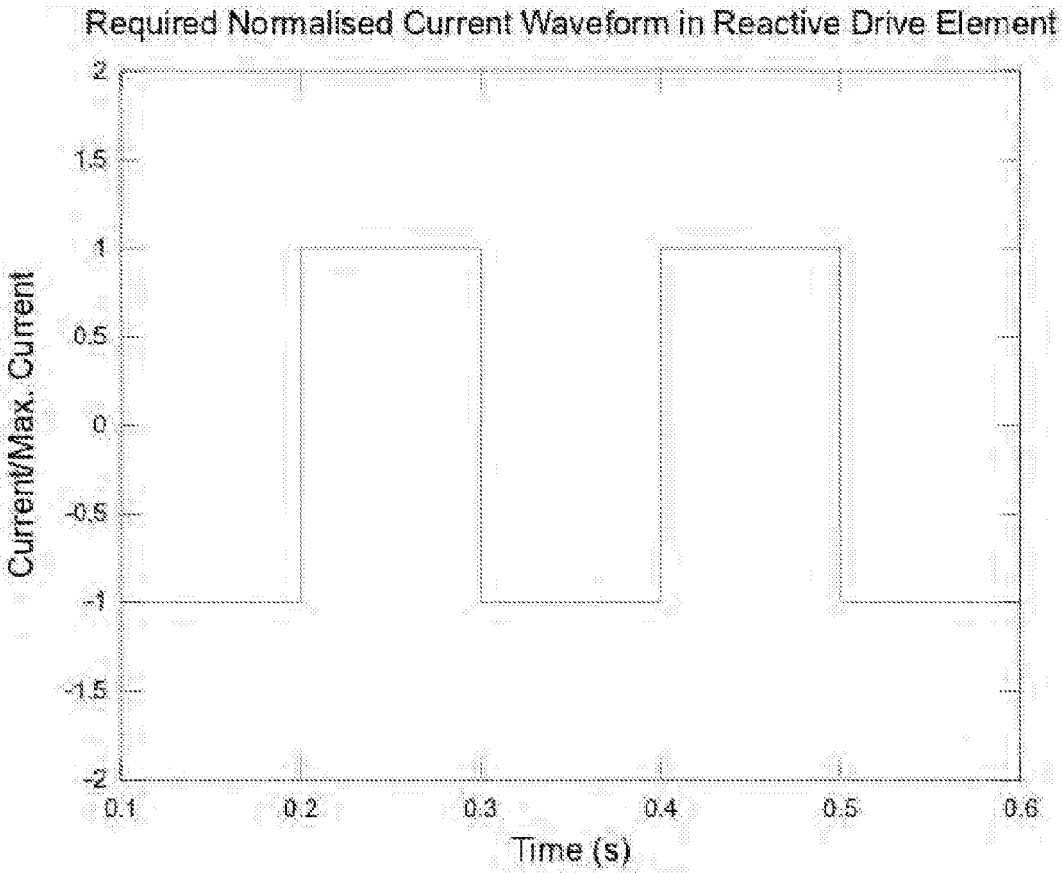


Figure 17

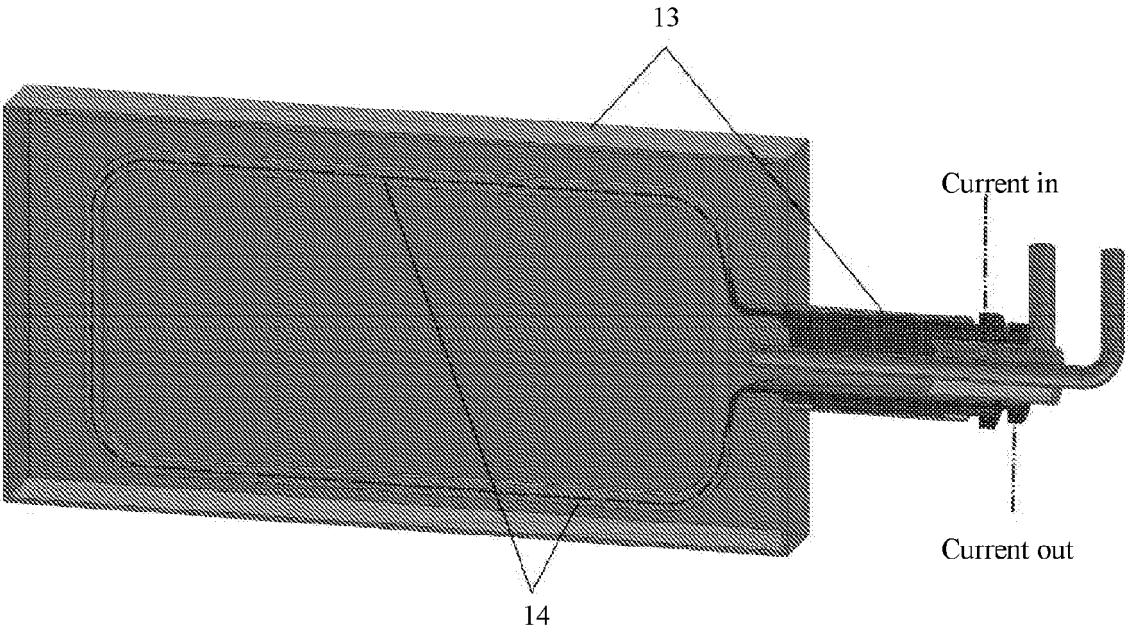


Figure 18

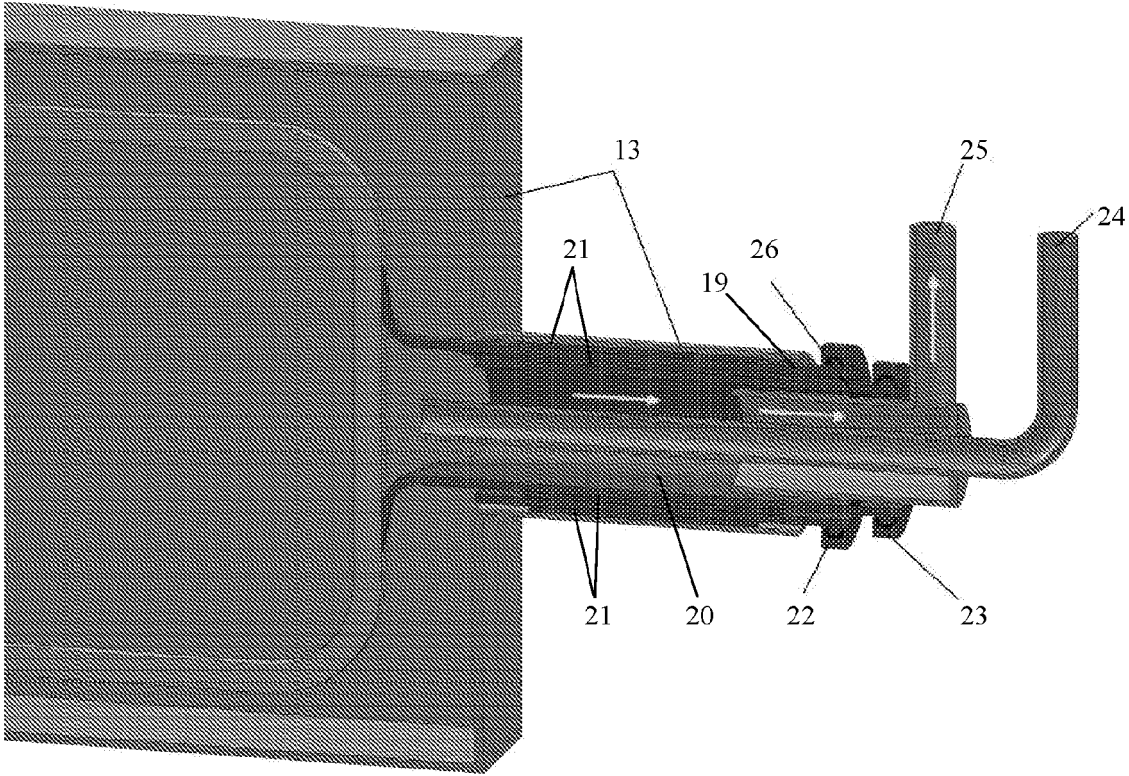


Figure 19

8/Jul/2013 10:23:26

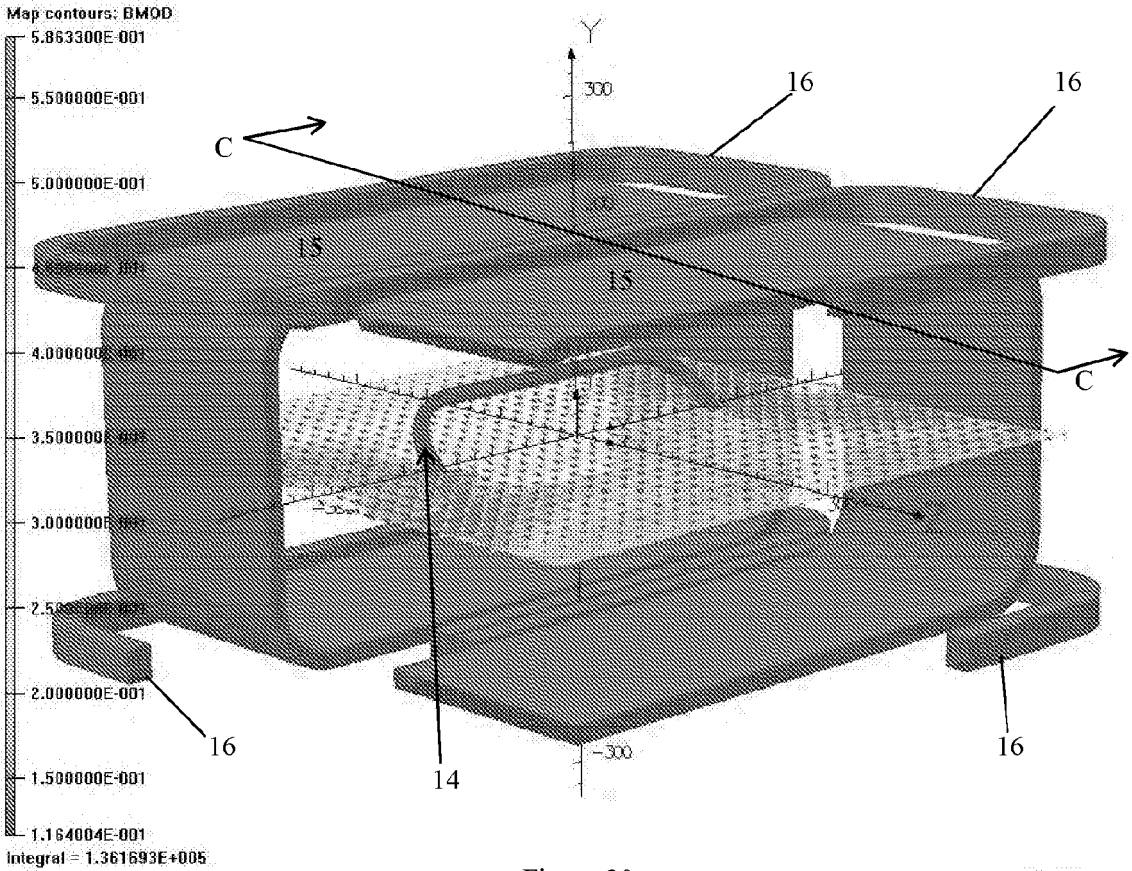


Figure 20

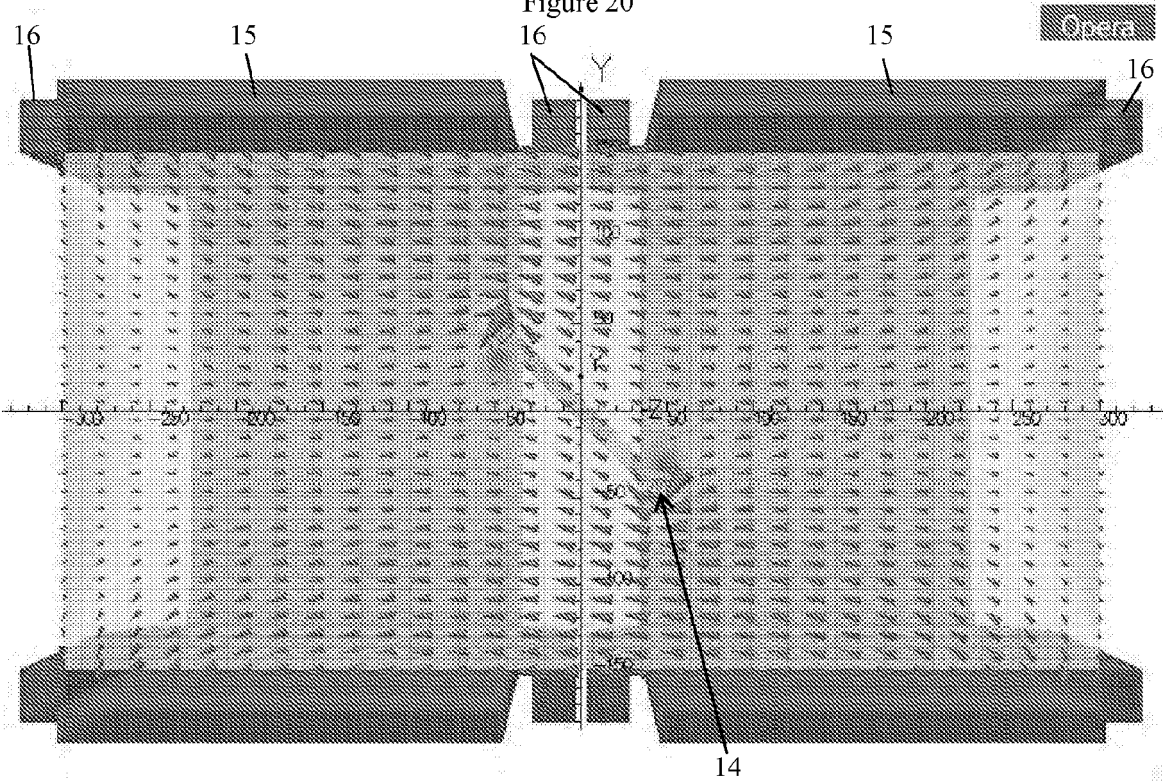
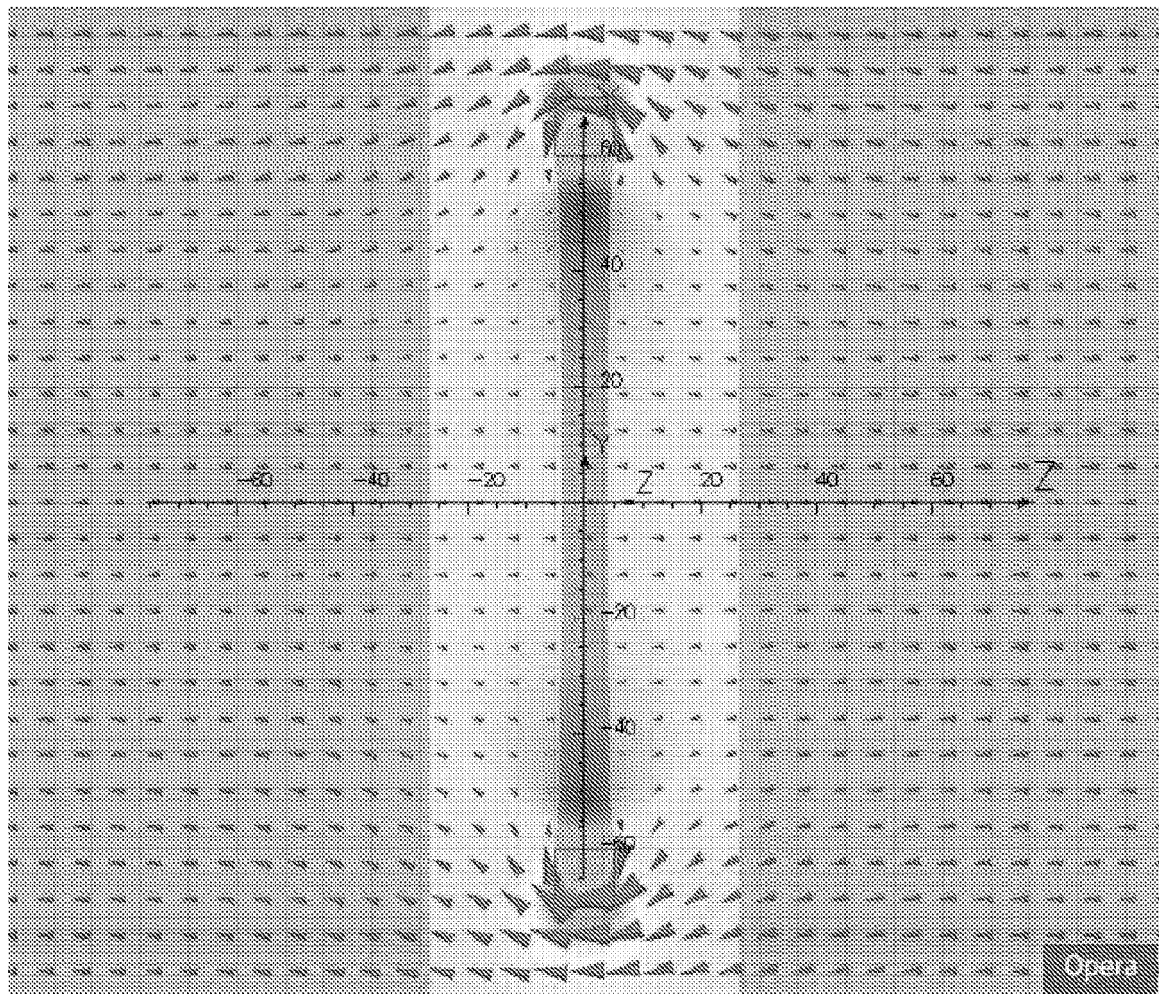


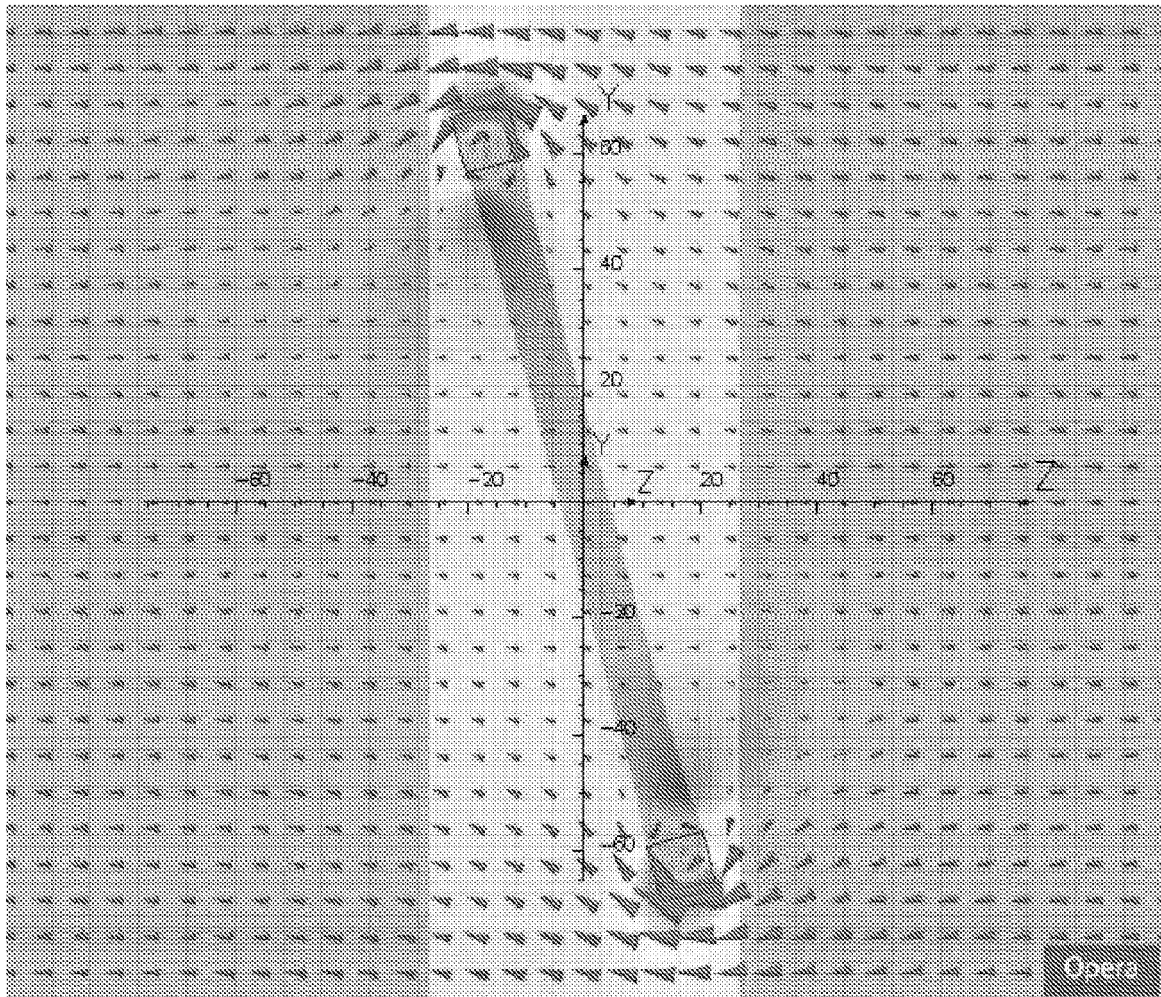
Figure 21

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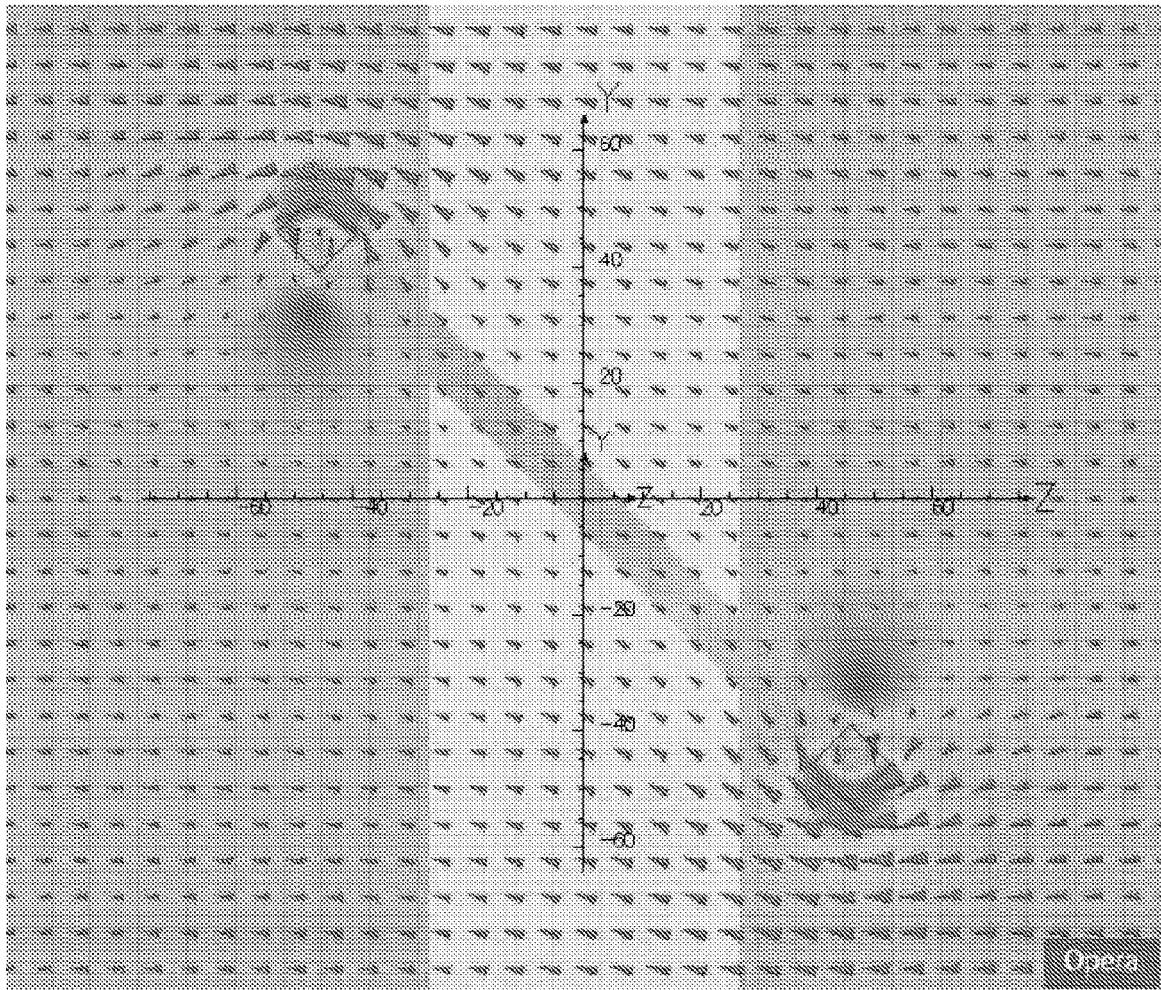
Background Field Strength: $0.5\text{T} = 5\,000\text{ Gauss}$
Field around Drive Coil: $1\text{T} = 10\,000\text{ Gauss}$
Total current in Rotating Coil: $31\,000\text{A}$

Figure 22



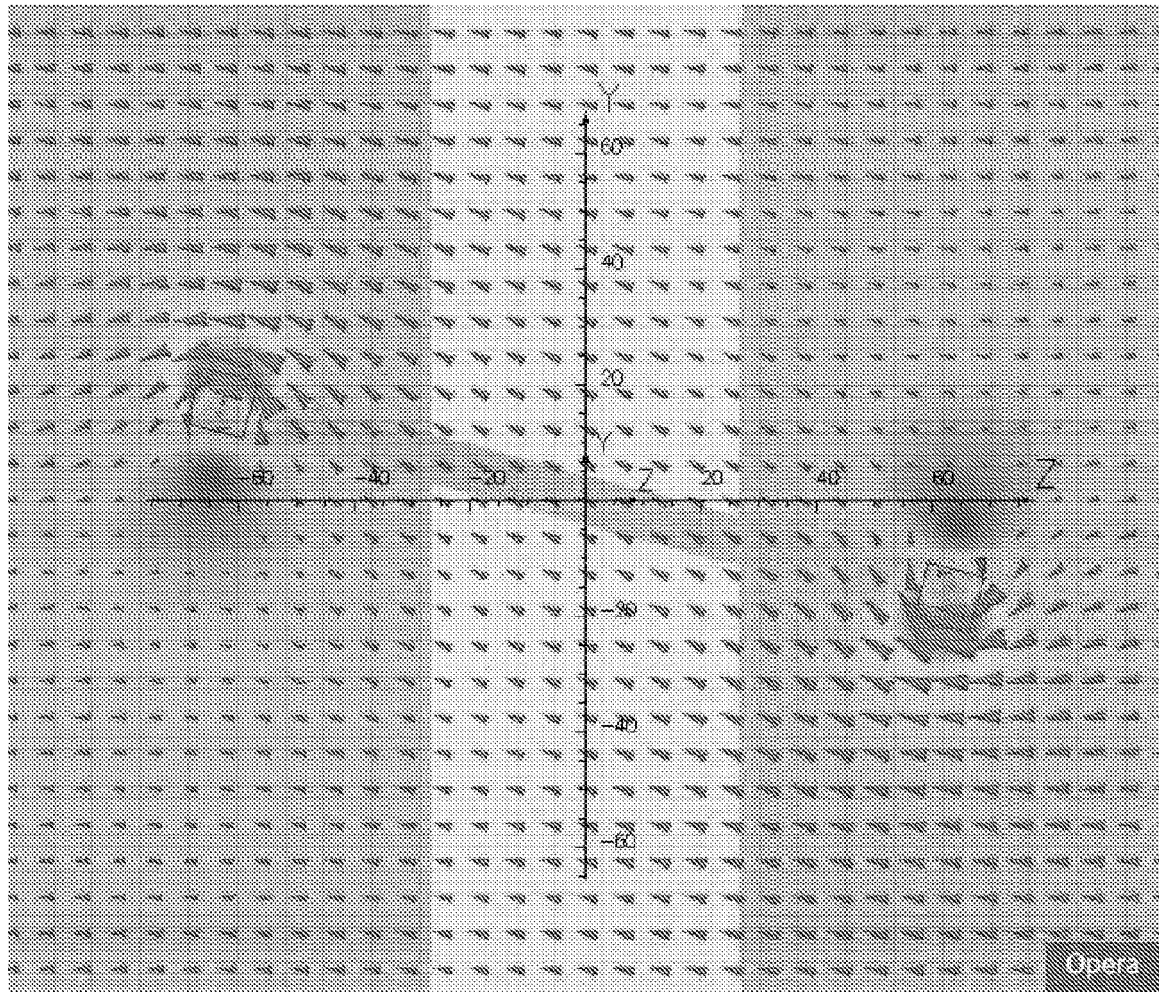
Background Field Strength: $0.5\text{T} = 5\,000\text{ Gauss}$
Field around Drive Coil: $1\text{T} = 10\,000\text{ Gauss}$
Total current in Rotating Coil: $31\,000\text{A}$

Figure 23



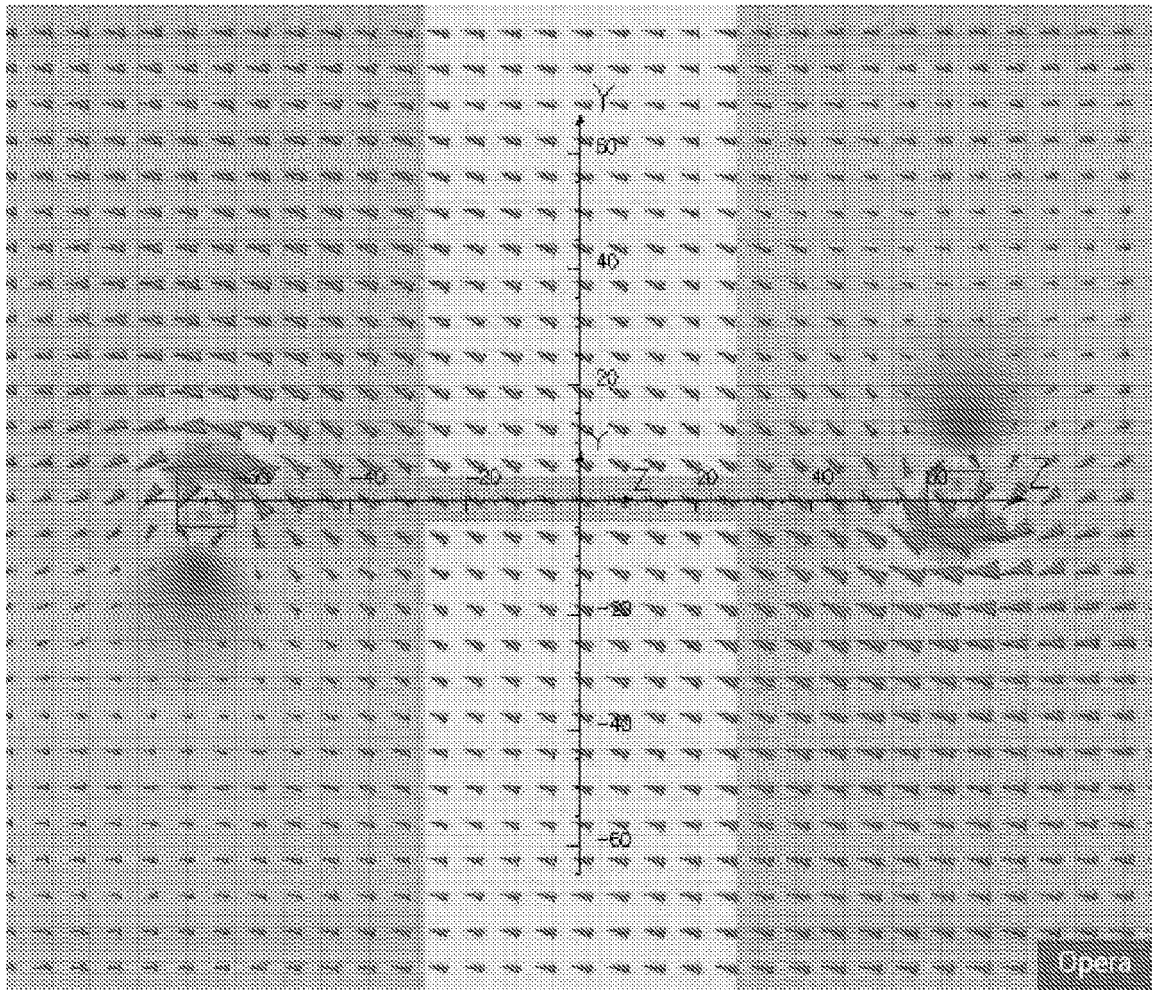
Background Field Strength: $0.5\text{T} = 5\,000\text{ Gauss}$
Field around Drive Coil: $1\text{T} = 10\,000\text{ Gauss}$
Total current in Rotating Coil: $31\,000\text{A}$

Figure 24



Background Field Strength: $0.5\text{T} = 5\,000\text{ Gauss}$
Field around Drive Coil: $1\text{T} = 10\,000\text{ Gauss}$
Total current in Rotating Coil: $31\,000\text{A}$

Figure 25



Background Field Strength: $0.5\text{T} = 5\,000\text{ Gauss}$
Field around Drive Coil: $1\text{T} = 10\,000\text{ Gauss}$
Total current in Rotating Coil: $31\,000\text{A}$

Figure 26

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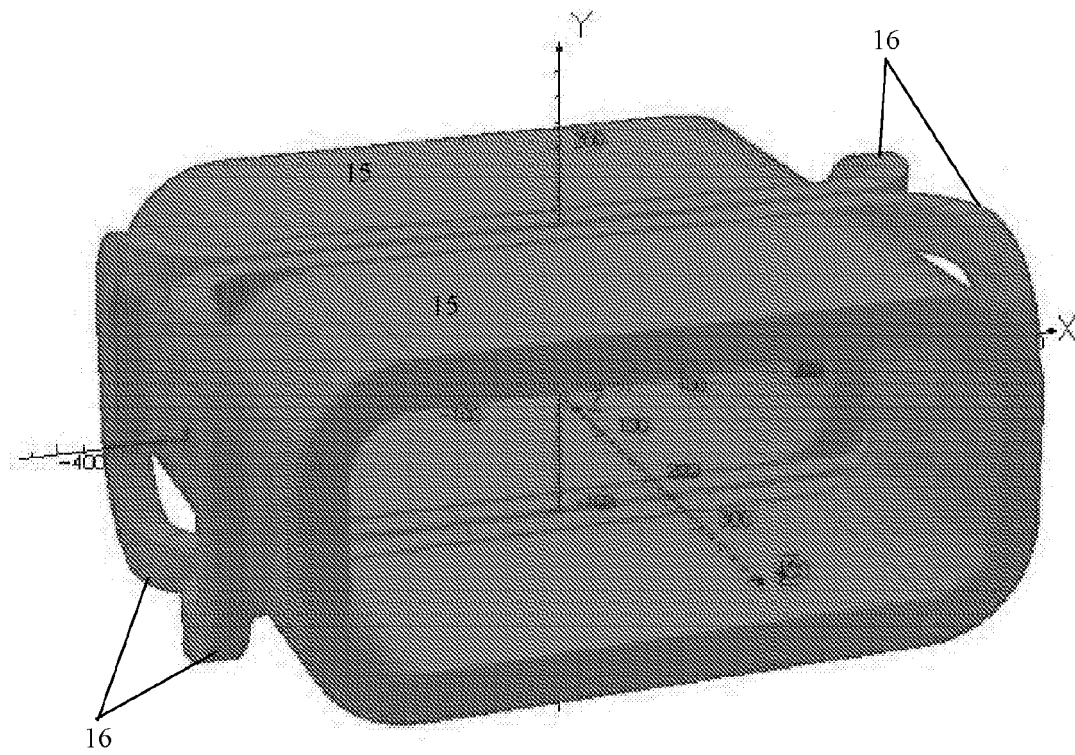


Figure 27

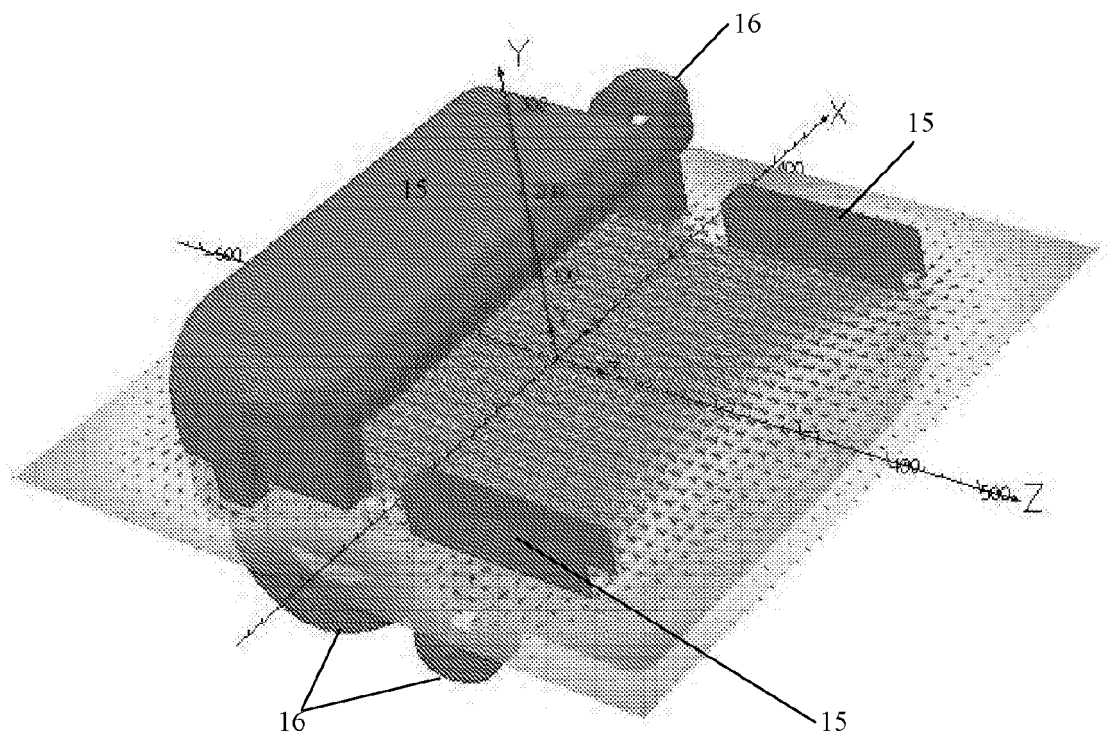


Figure 28

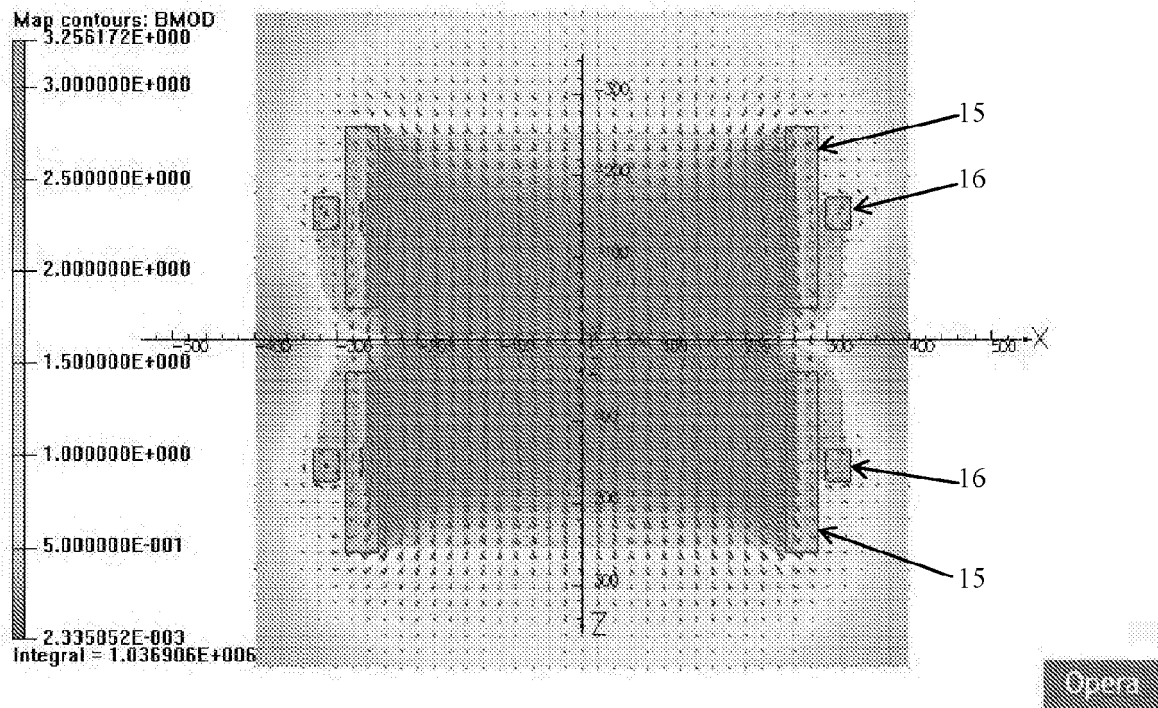


Figure 29

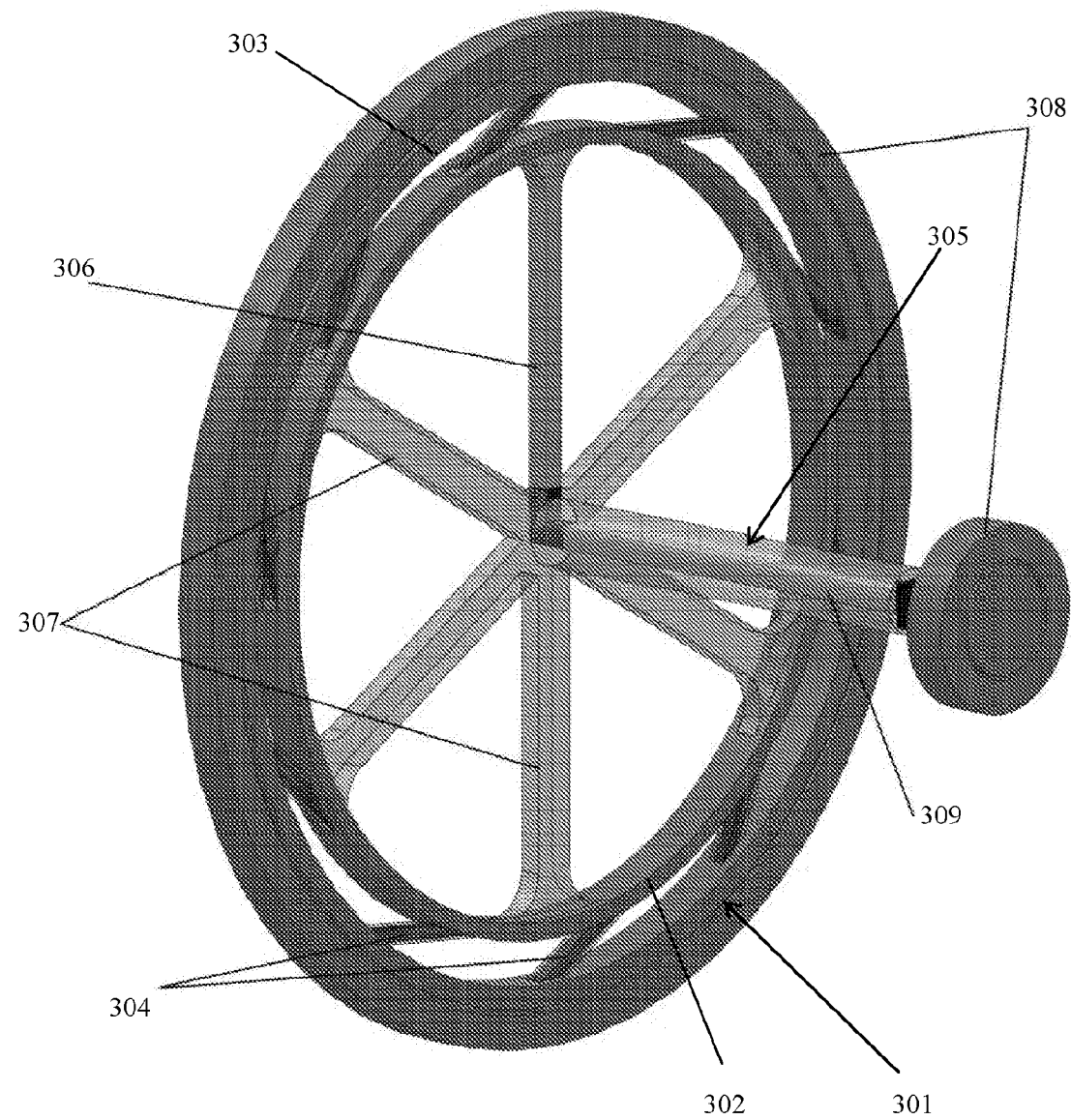


Figure 30

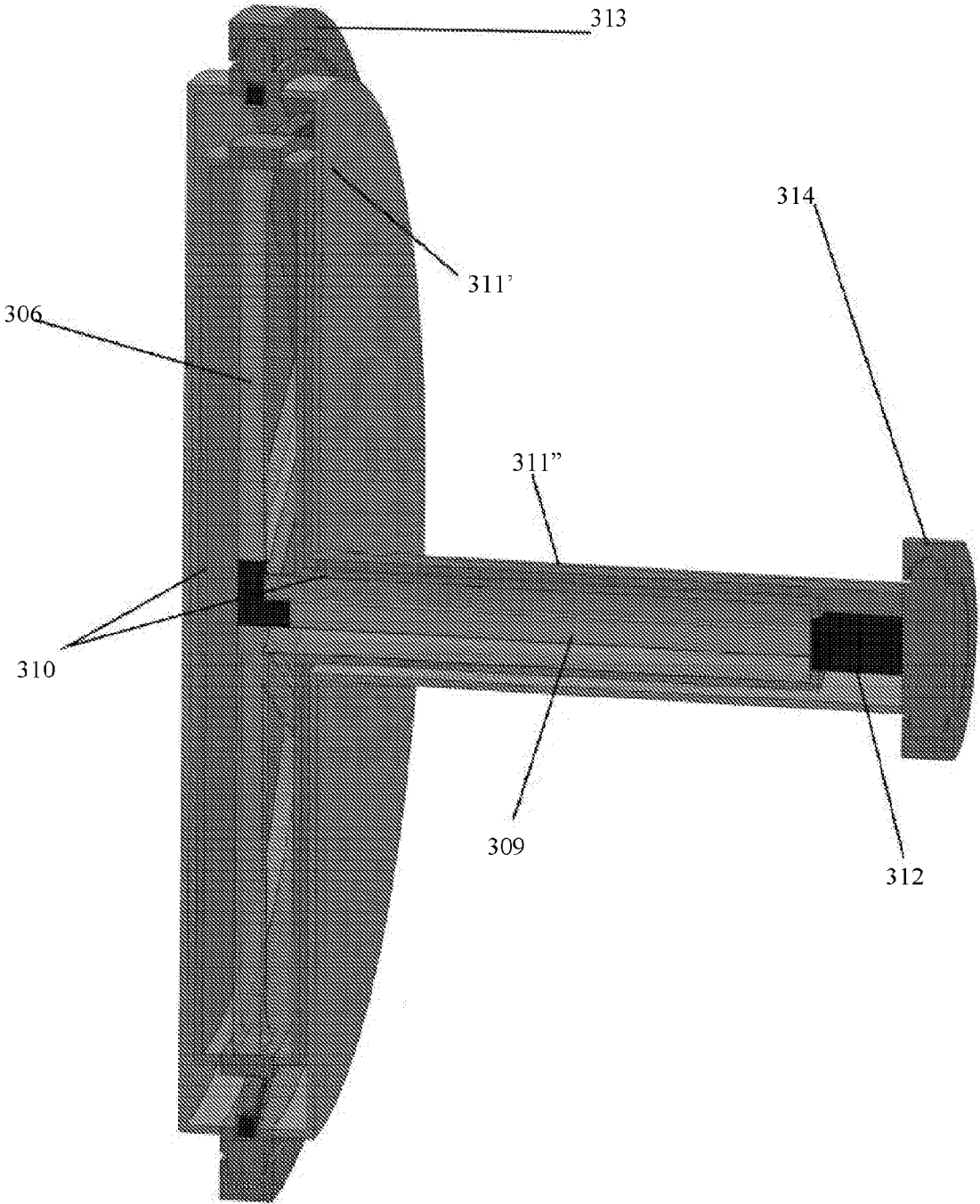


Figure 31

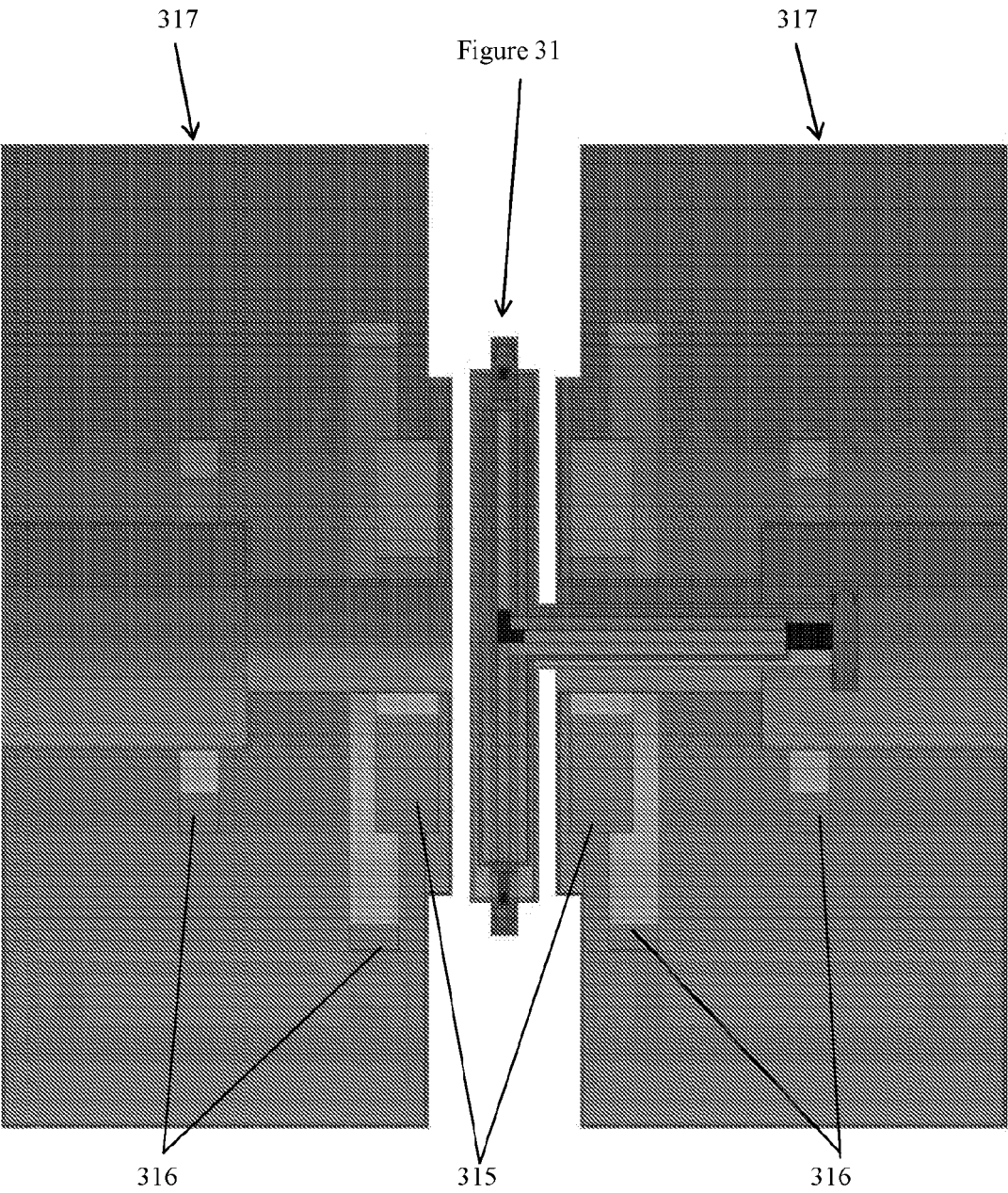


Figure 32

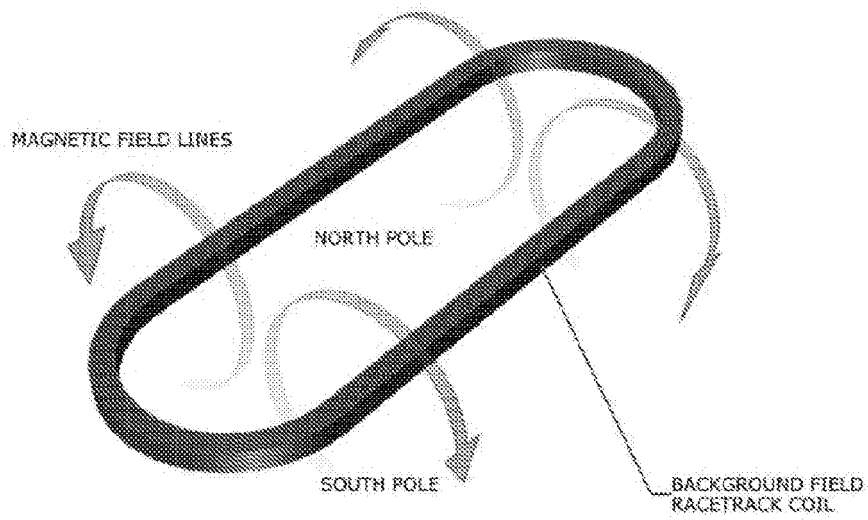


Figure 33

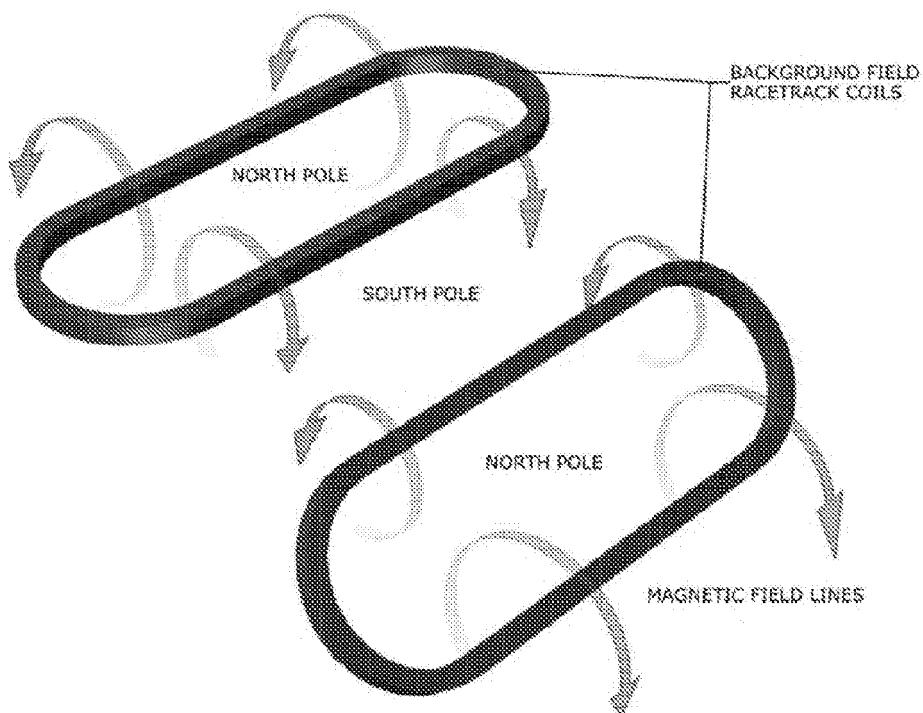


Figure 34

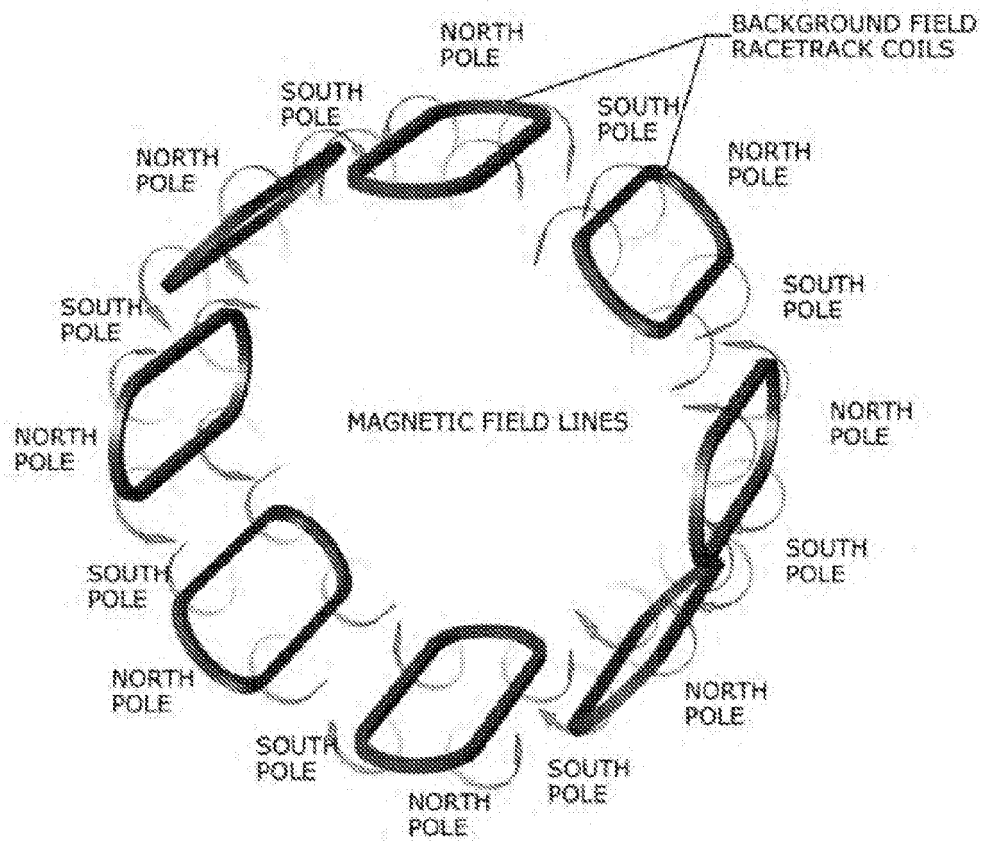


Figure 35

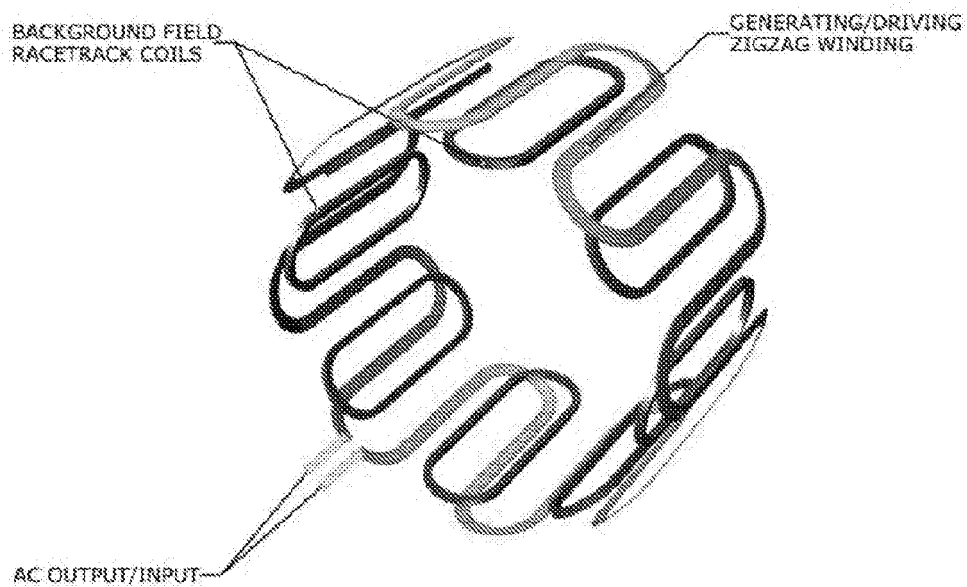


Figure 36

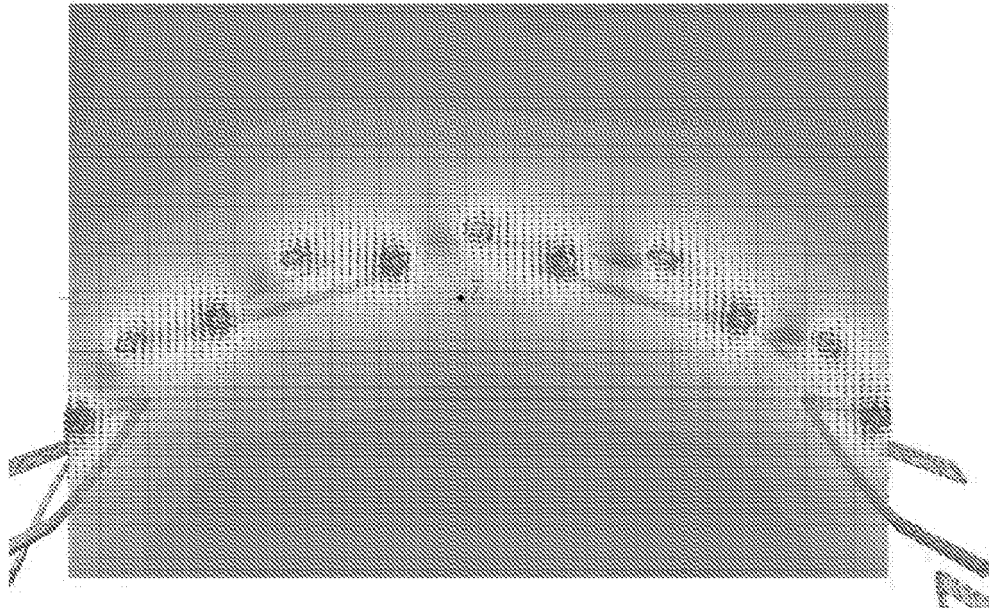


Figure 37

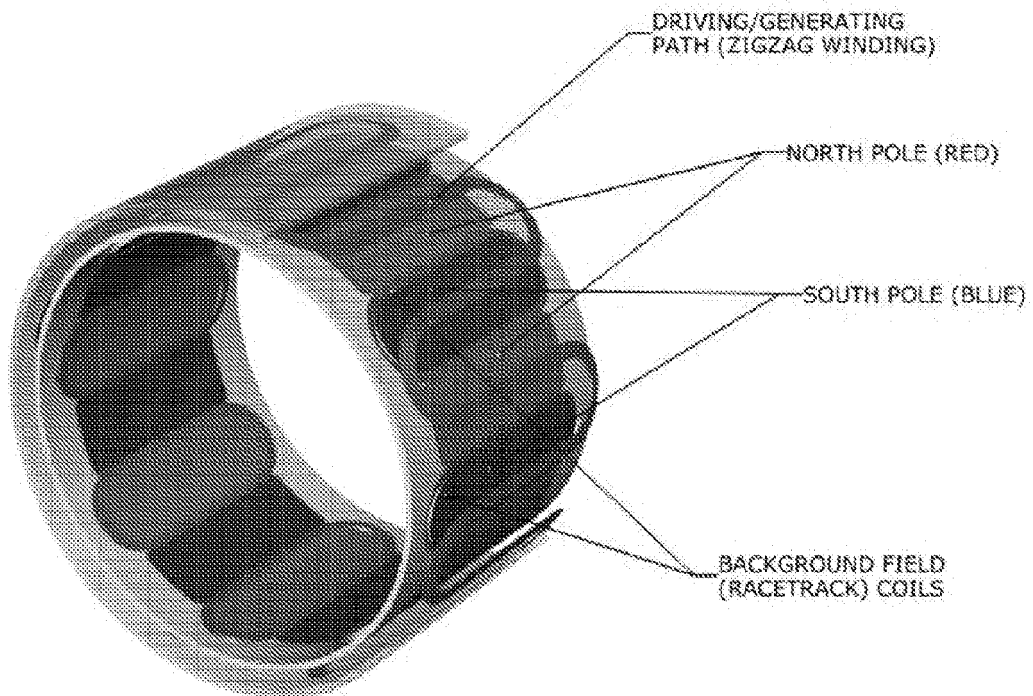


Figure 38

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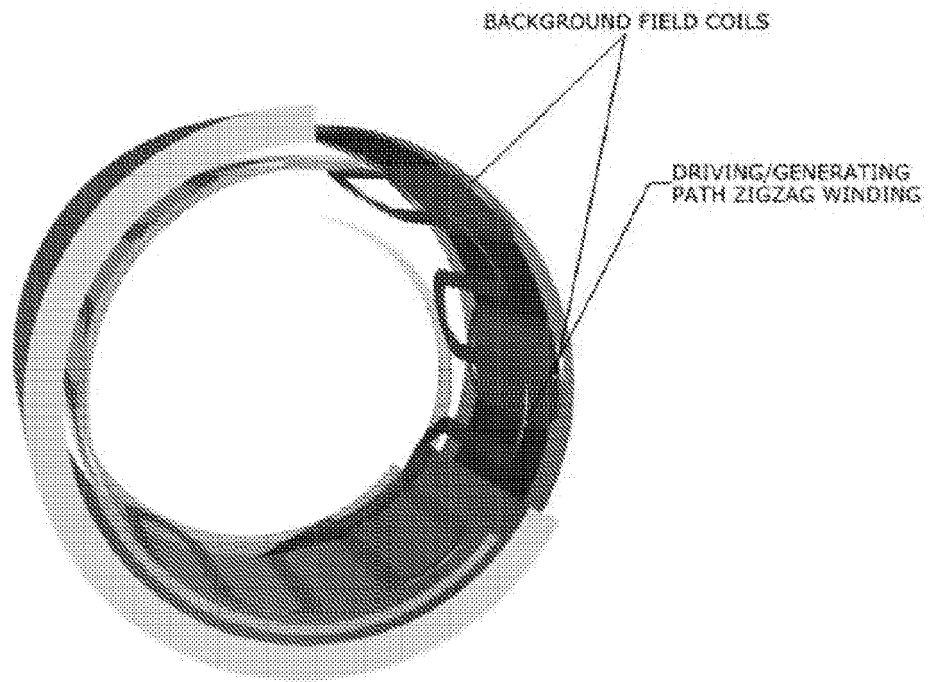


Figure 39

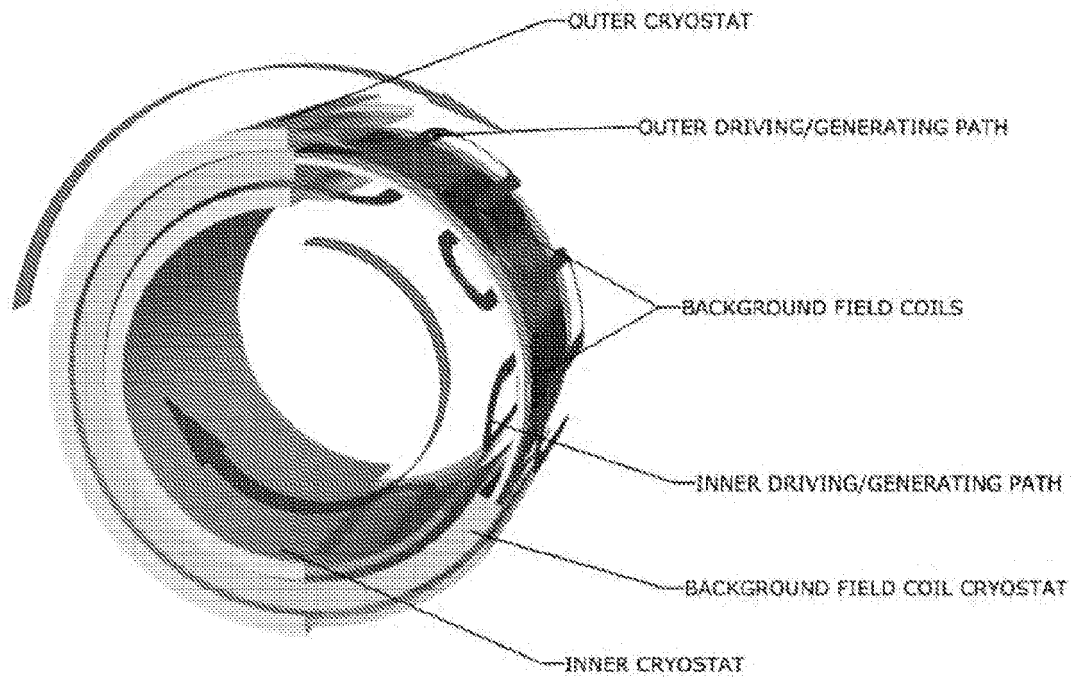


Figure 40

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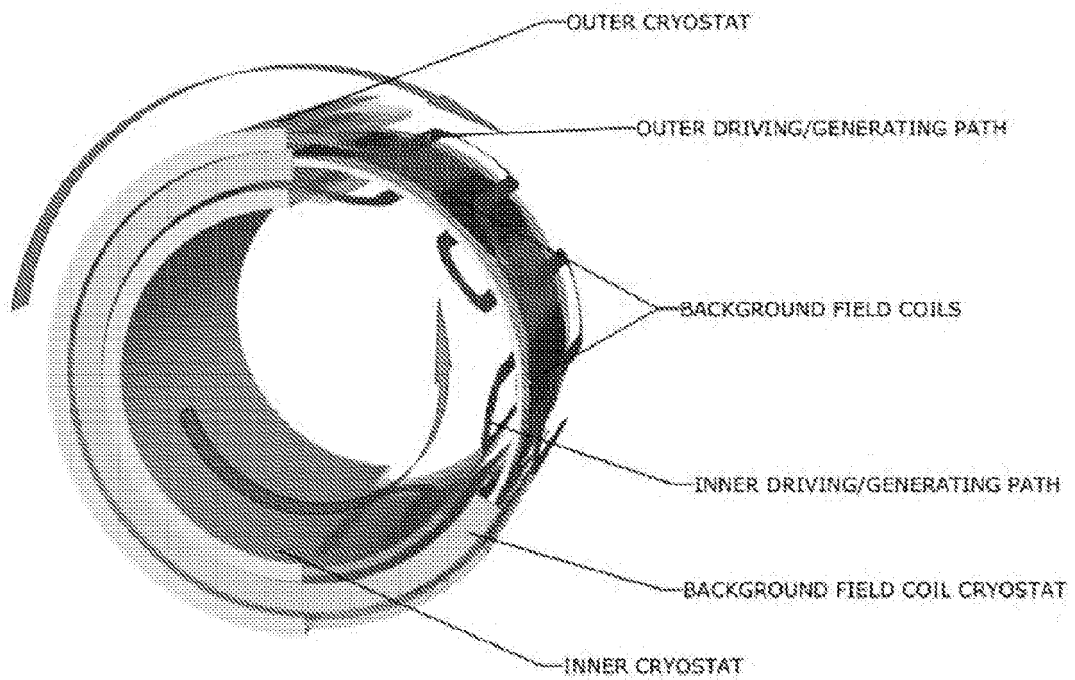


Figure 41

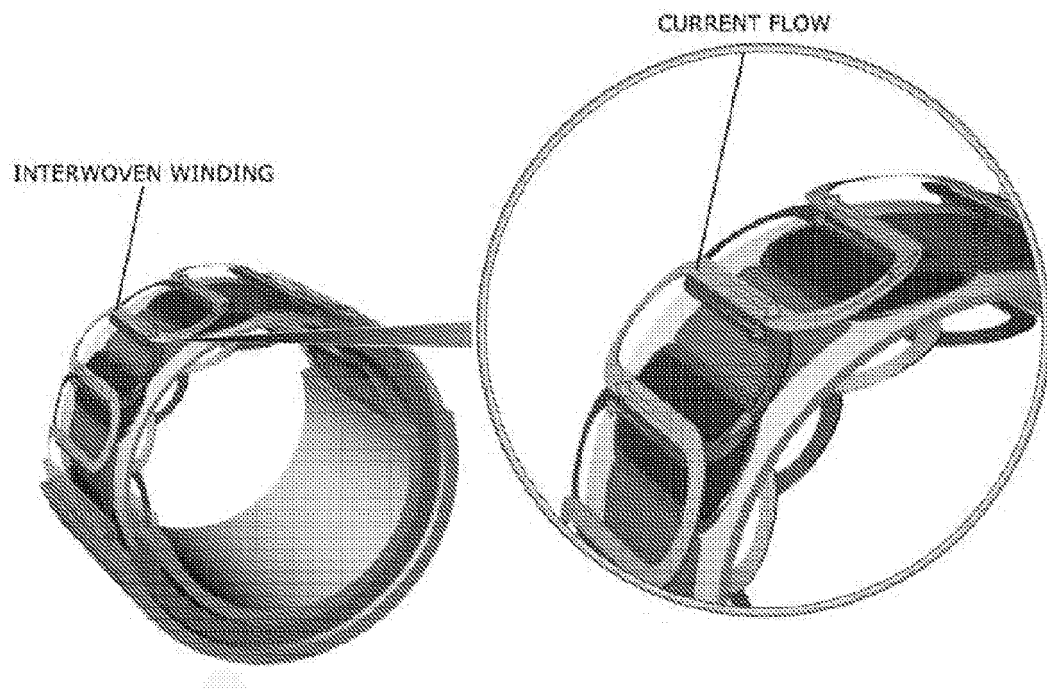


Figure 42

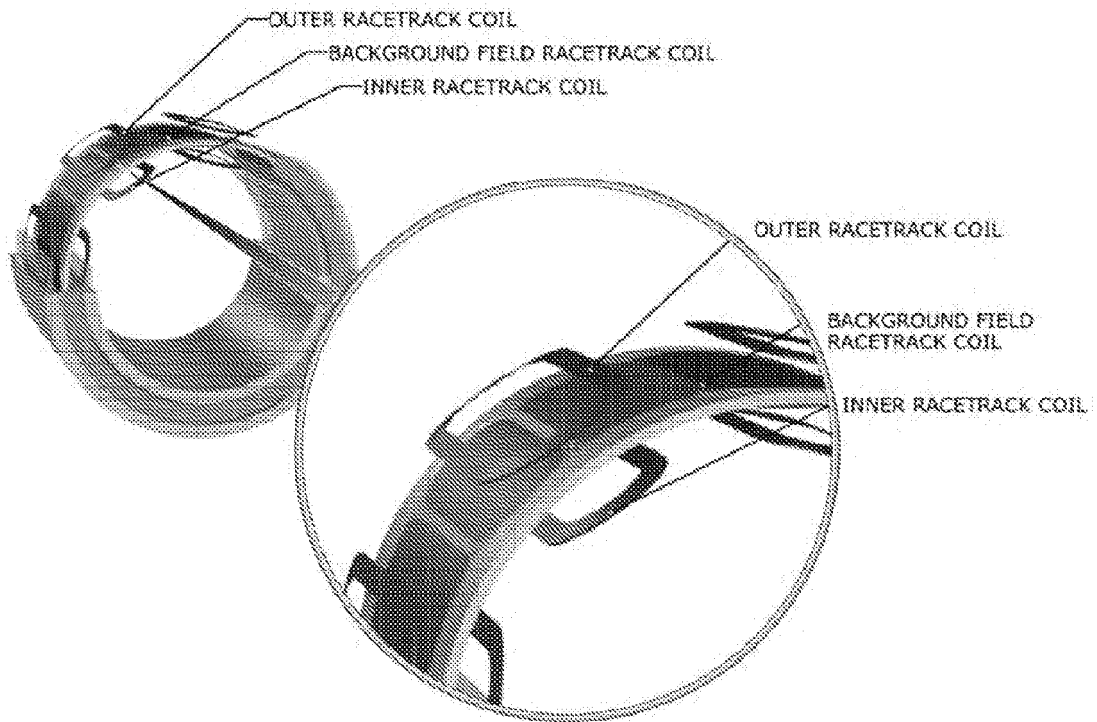


Figure 43

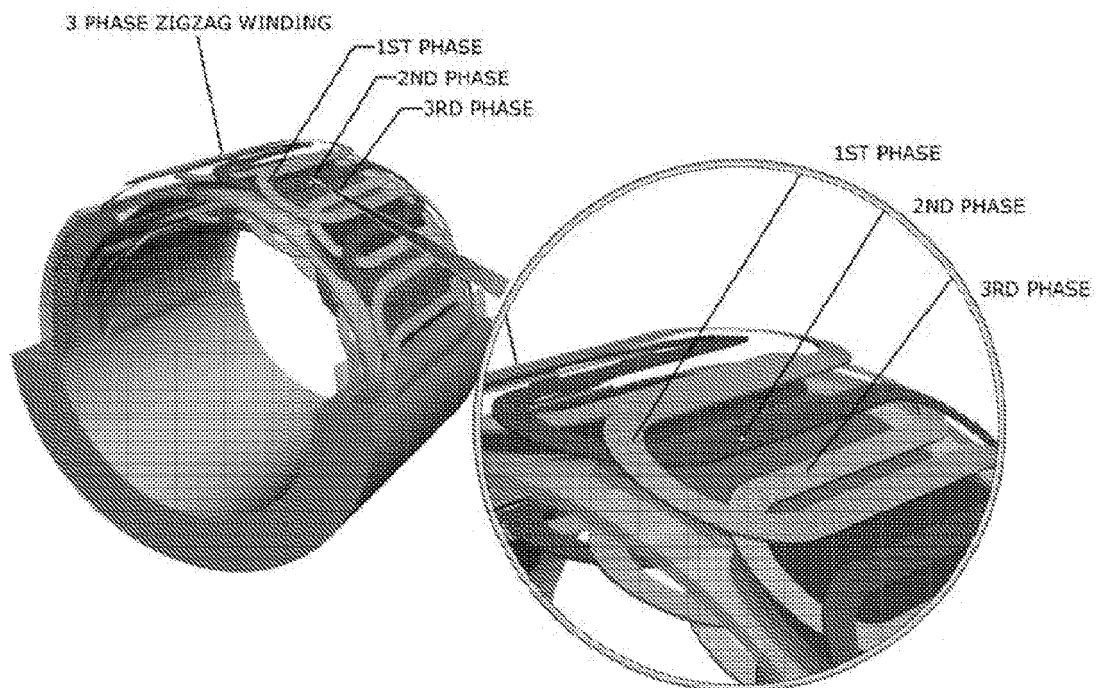


Figure 44

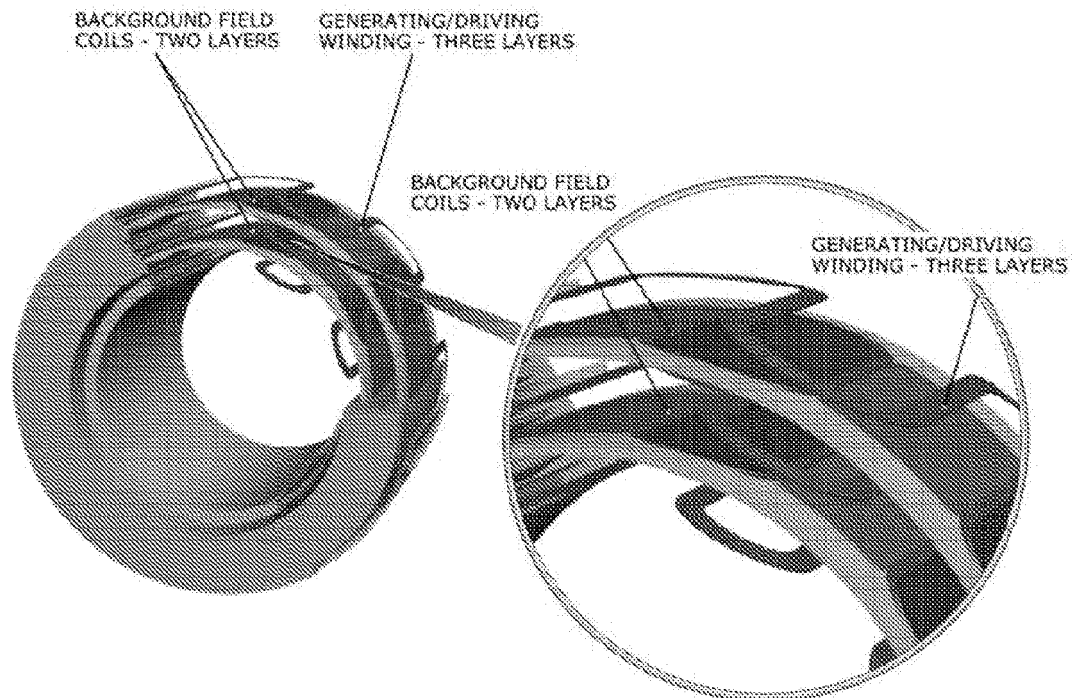


Figure 45

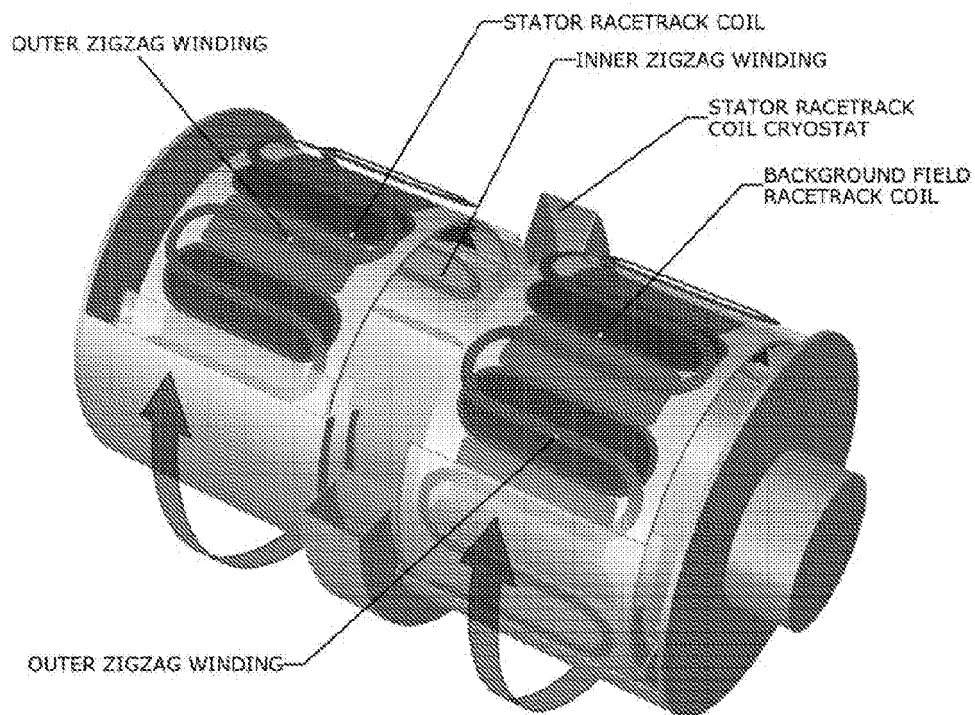


Figure 46

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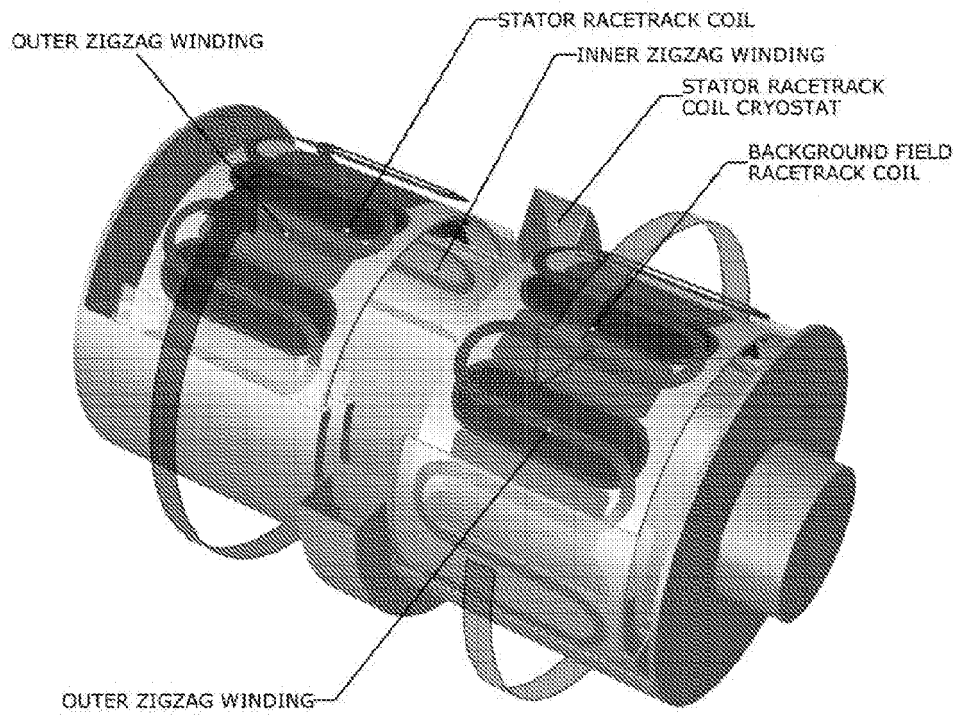


Figure 47

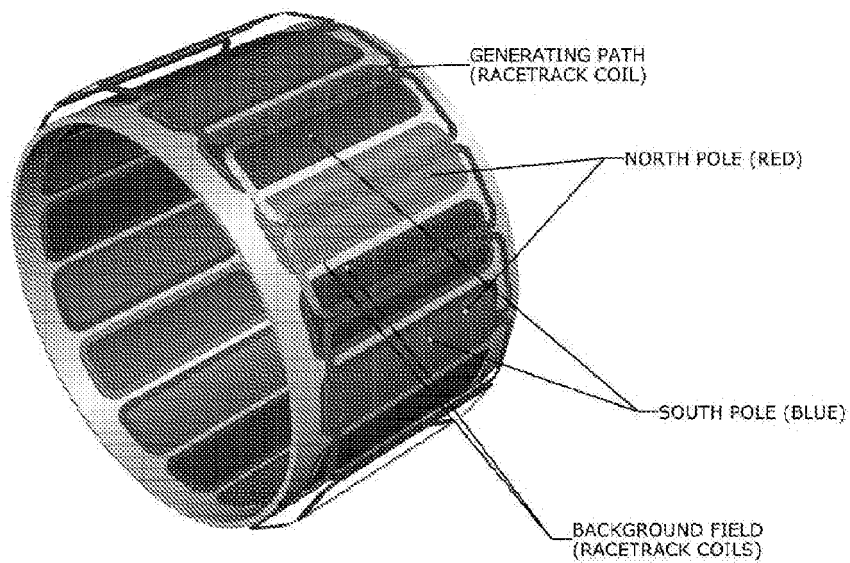


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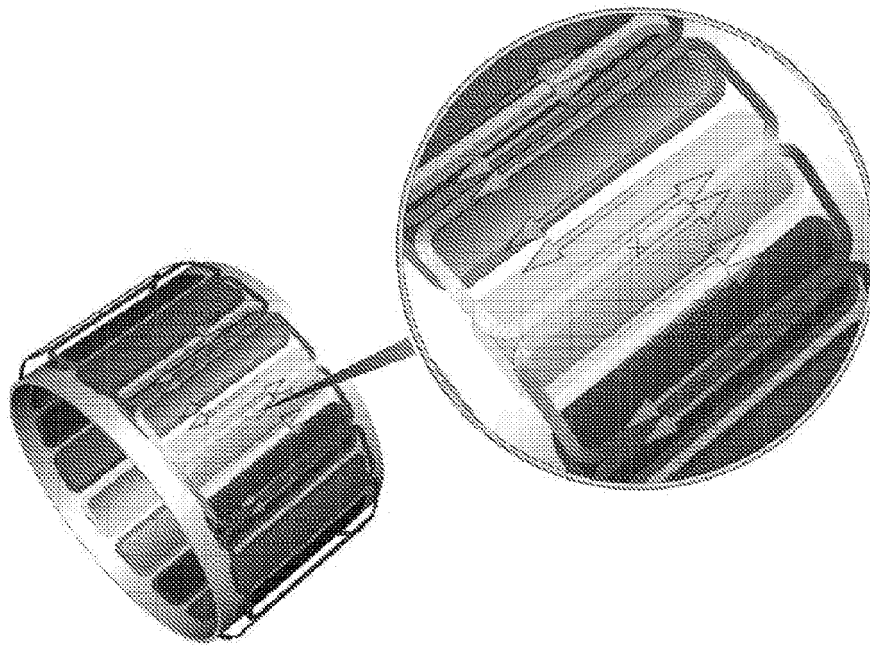


Figure 49

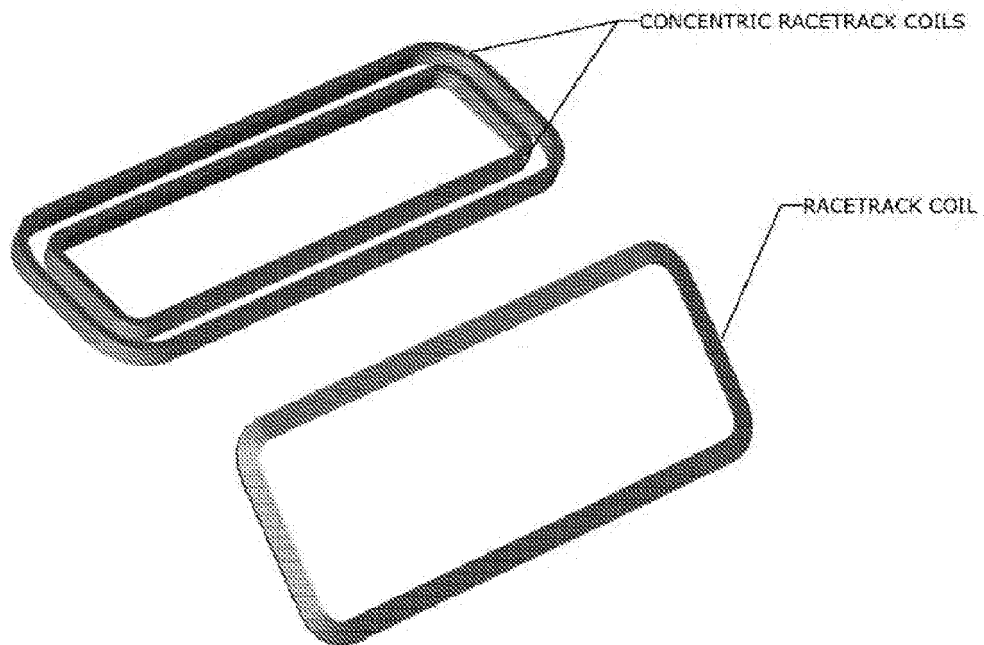


Figure 50

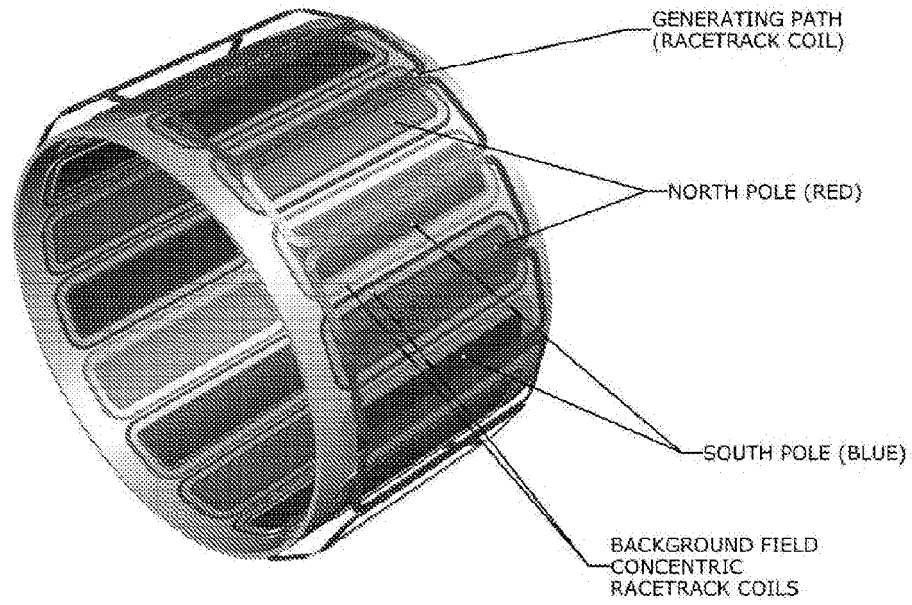


Figure 51

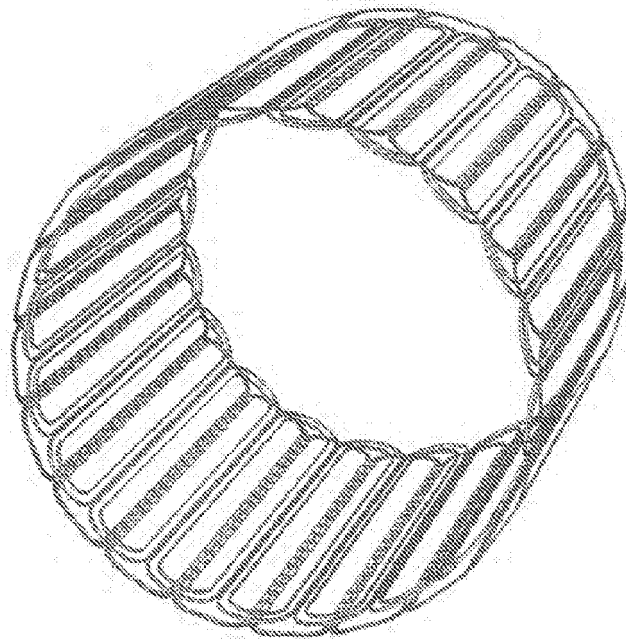


Figure 52

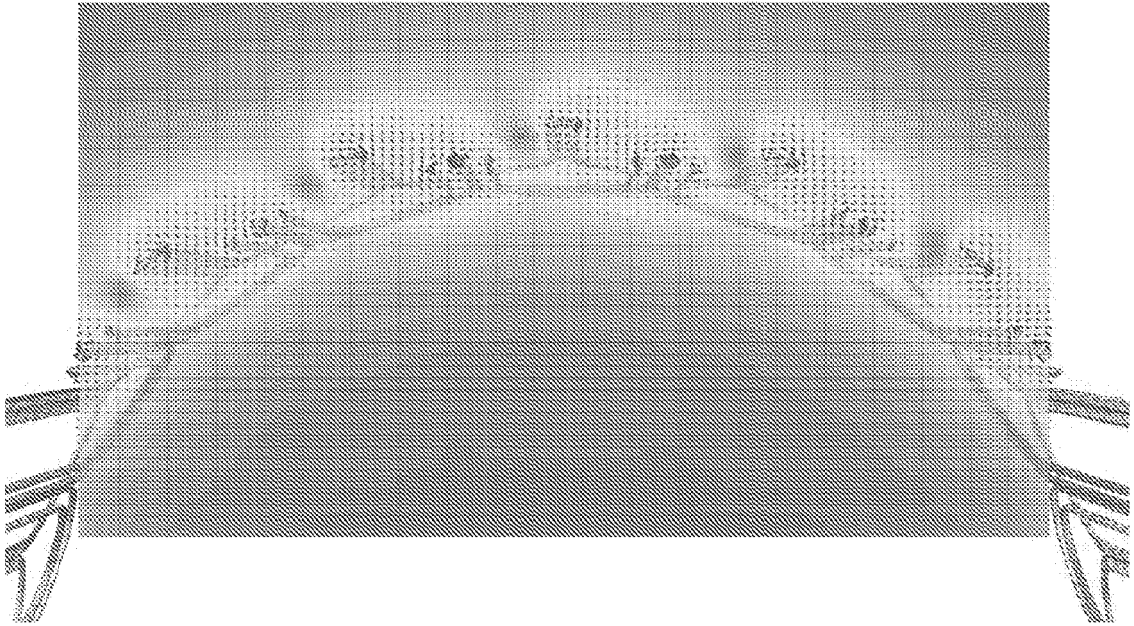


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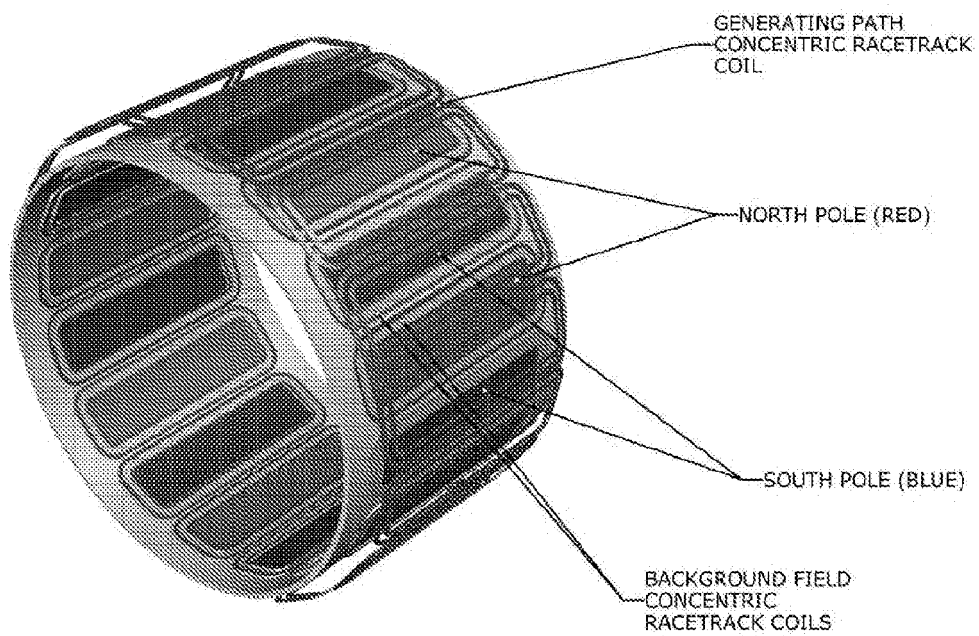


Figure 54

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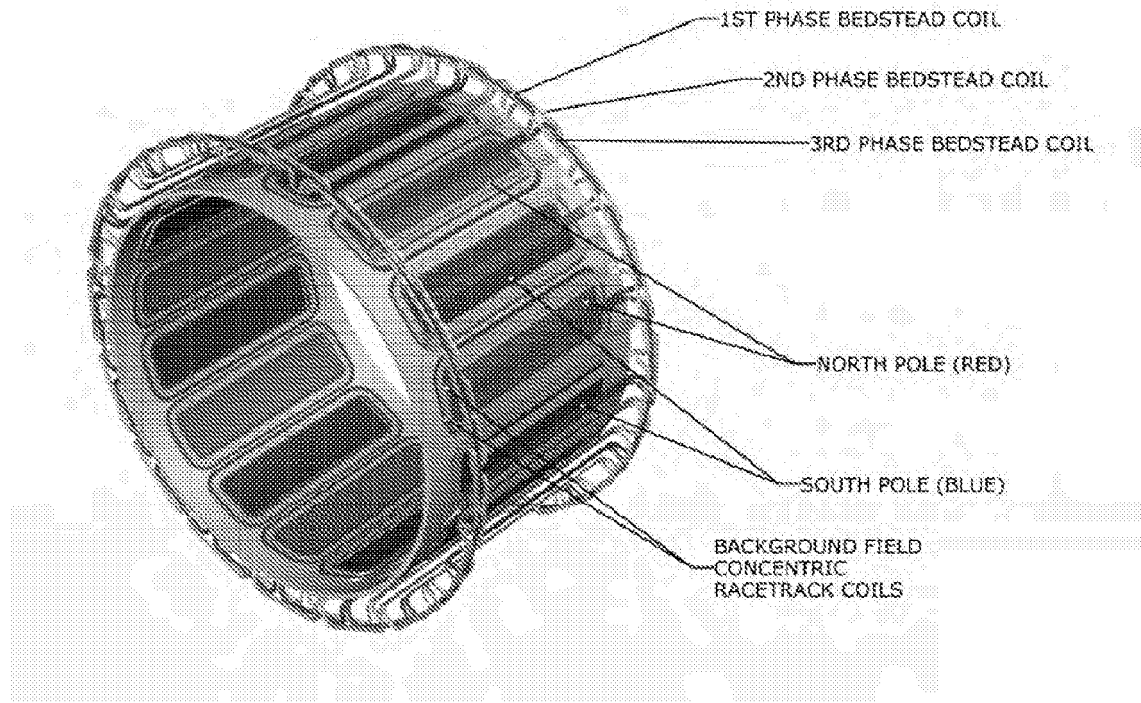


Figure 55

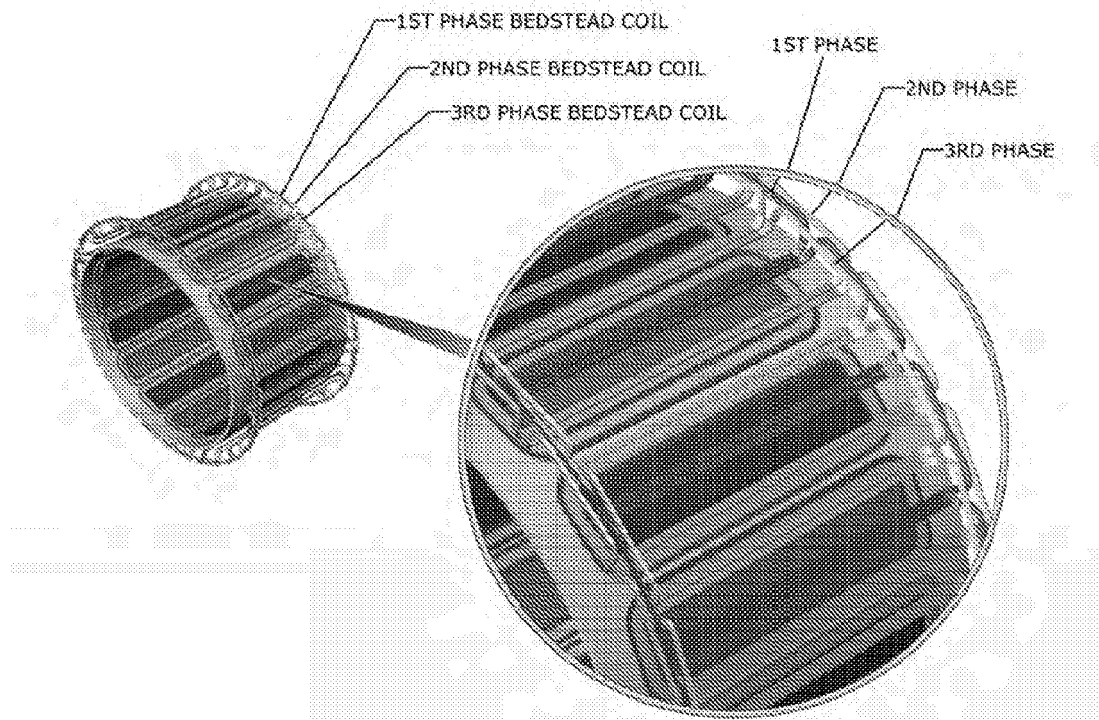


Figure 56

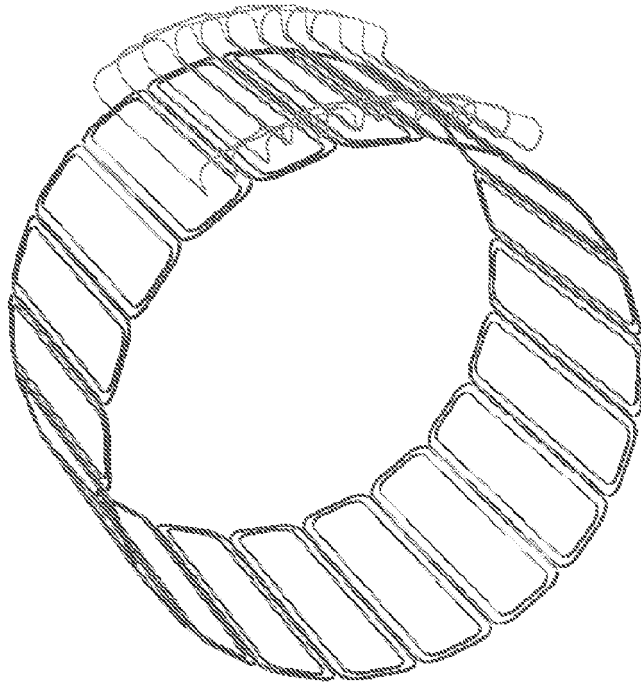


Figure 57

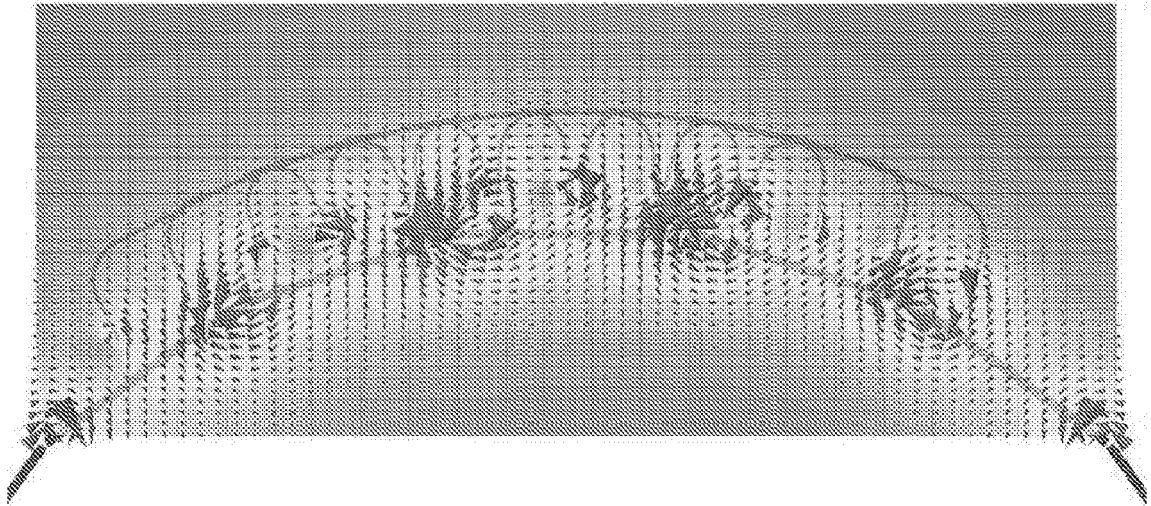


Figure 58

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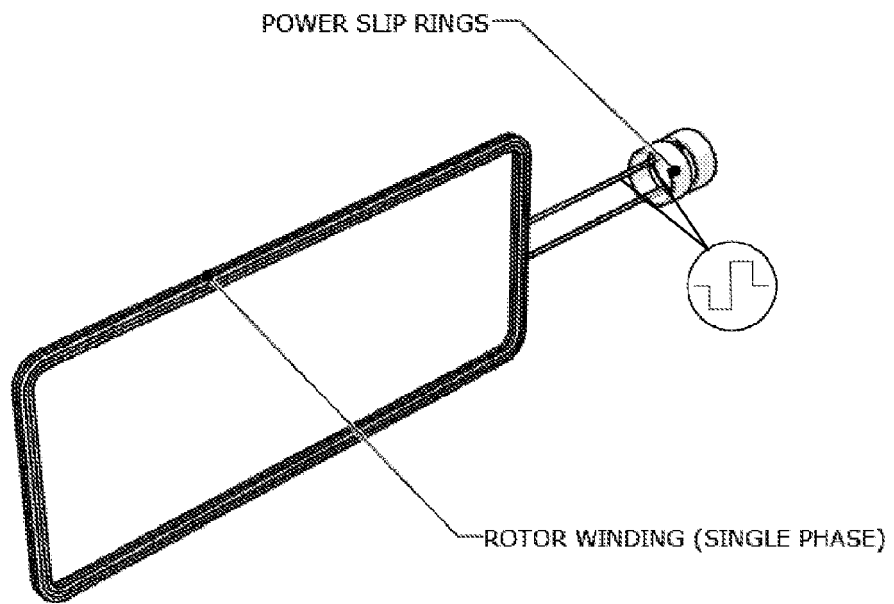


Figure 59

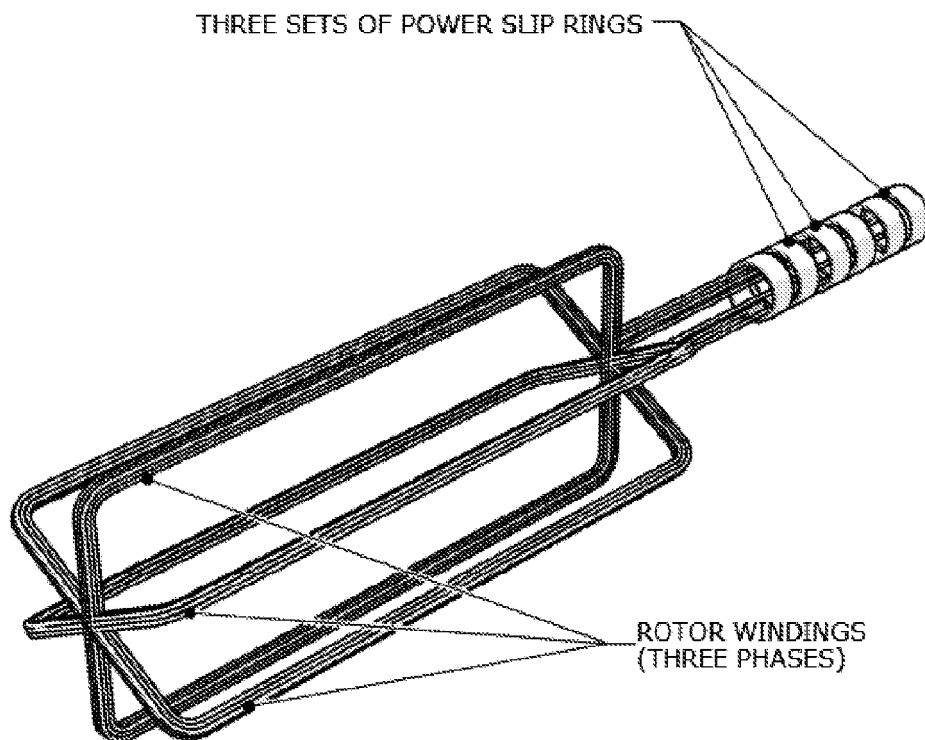


Figure 60

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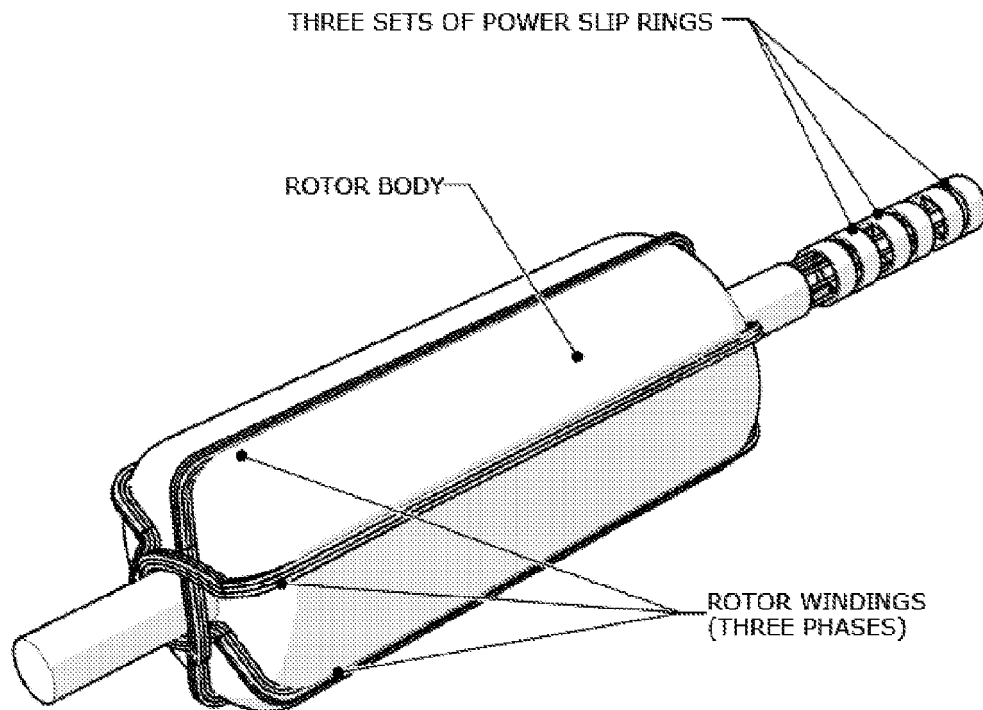


Figure 61

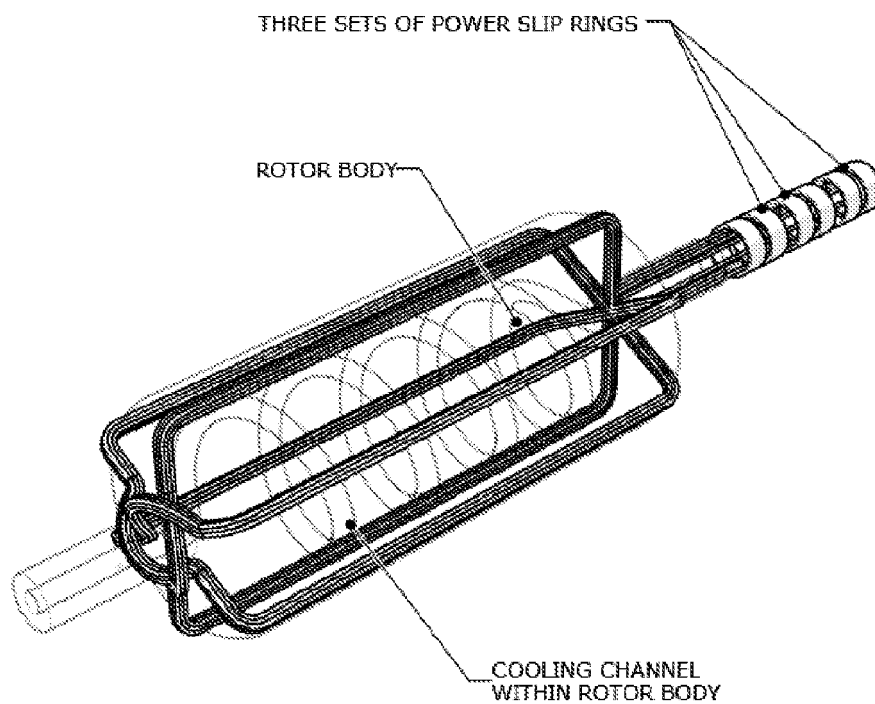
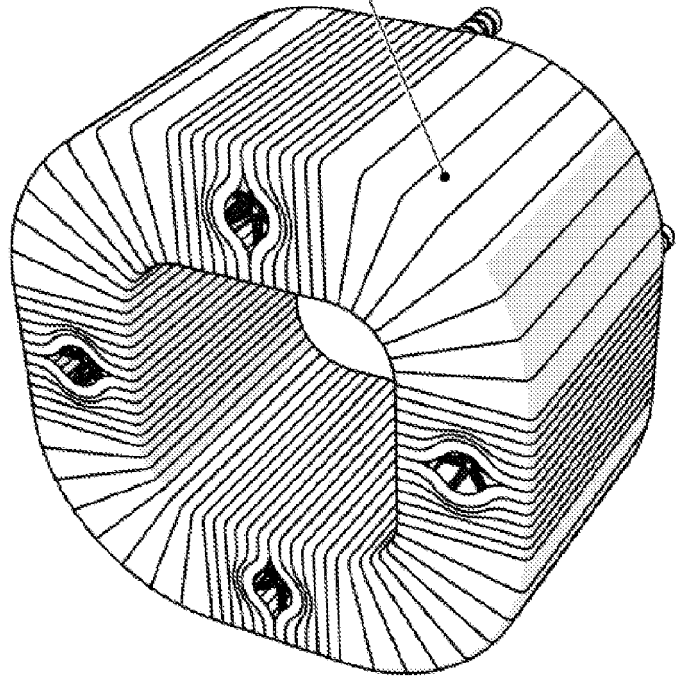


Figure 62

TOROIDAL STATOR WINDING



CIRCULAR TOROIDAL STATOR WINDING Figure 63

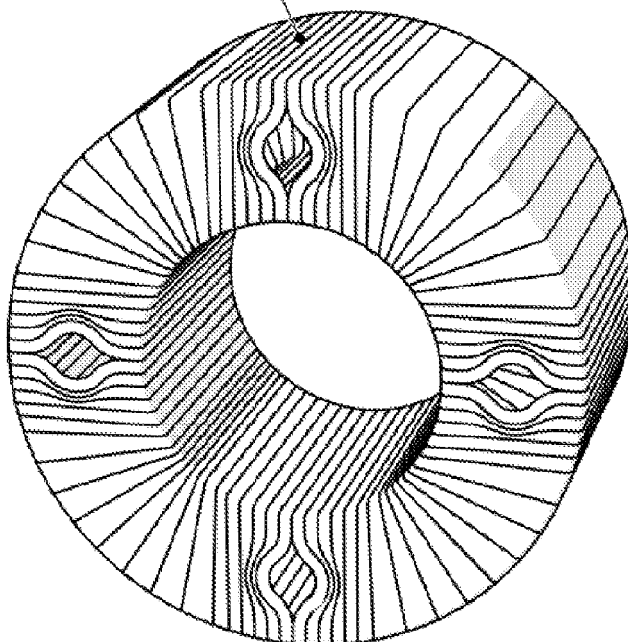


Figure 64

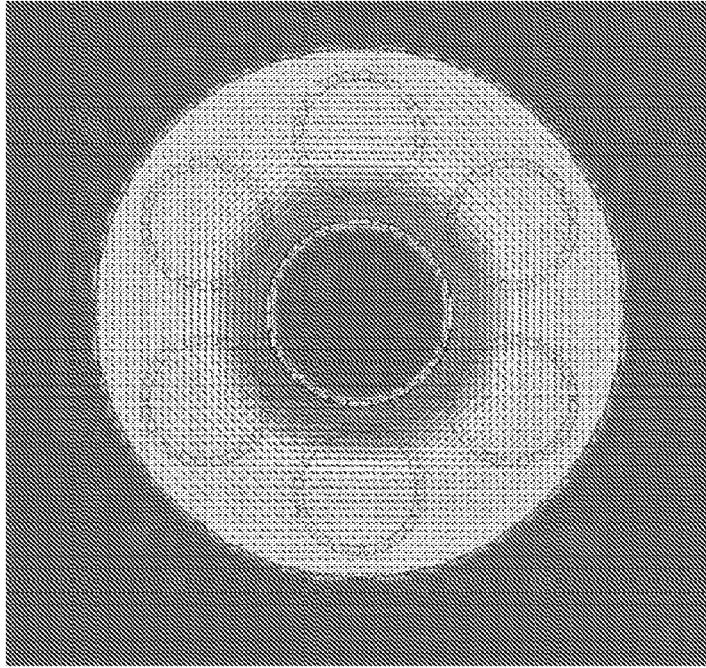


Figure 65

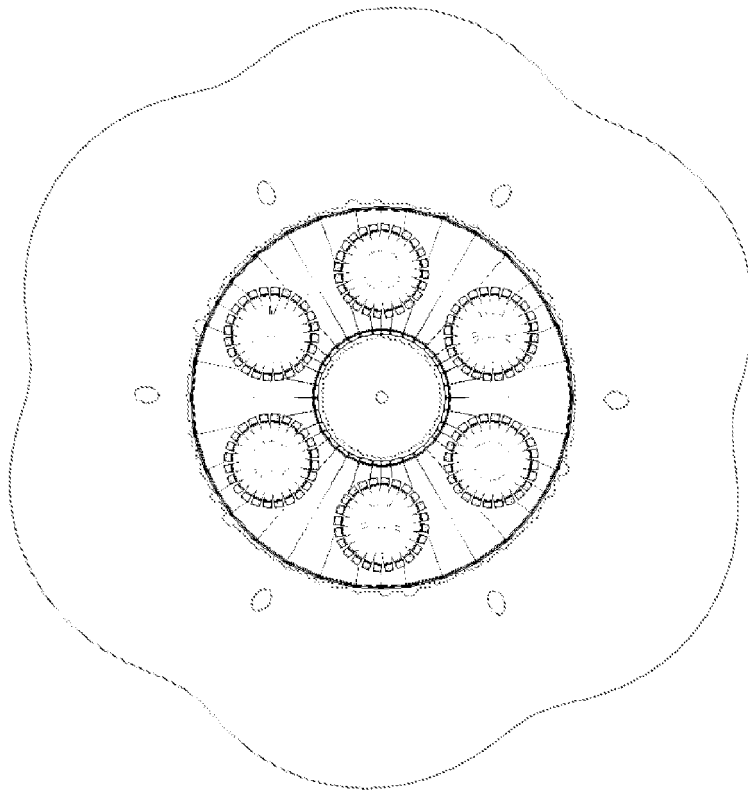


Figure 66

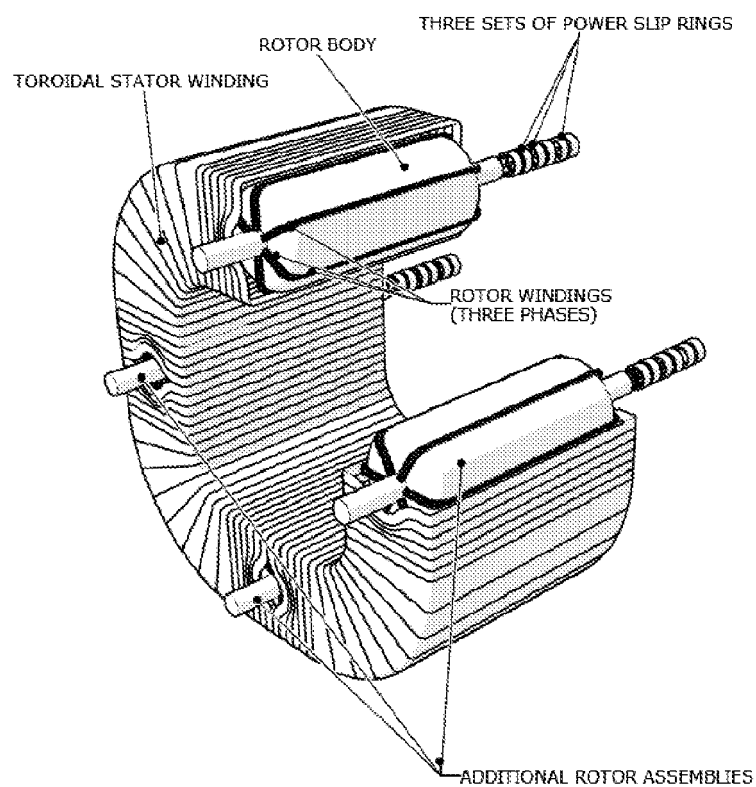


Figure 67

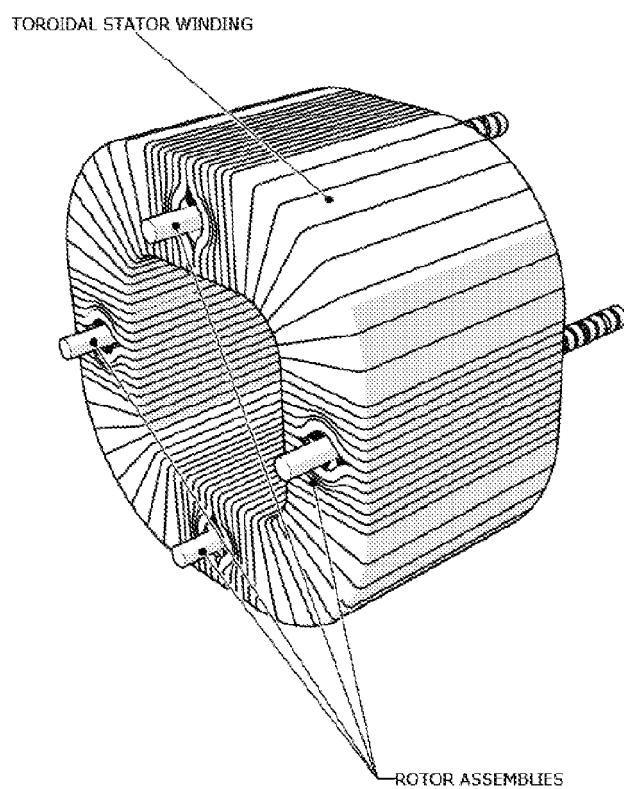


Figure 68

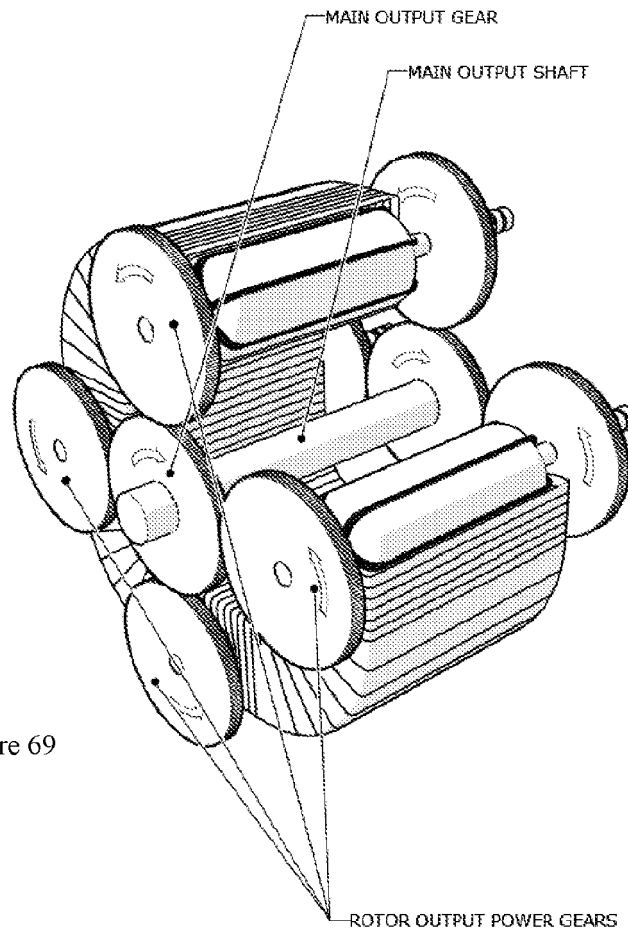


Figure 69

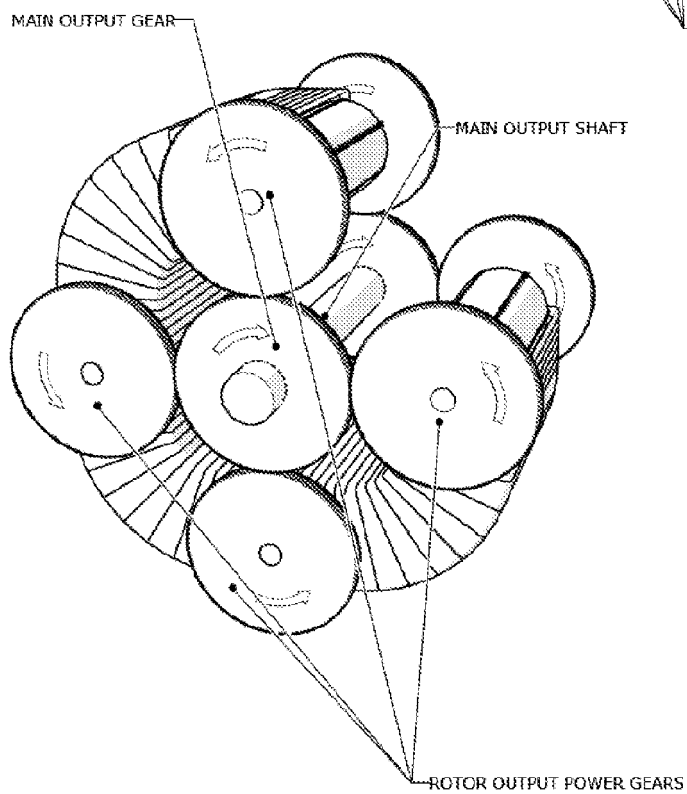


Figure 70

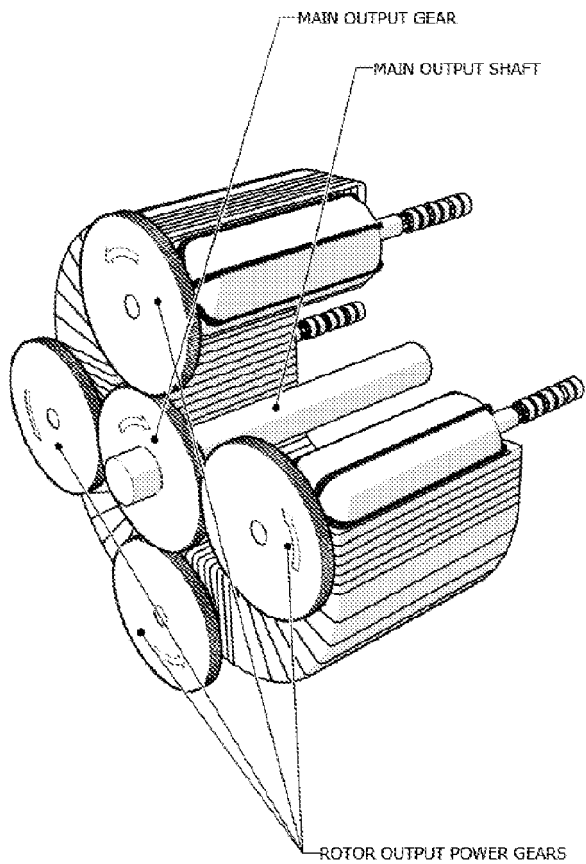


Figure 71

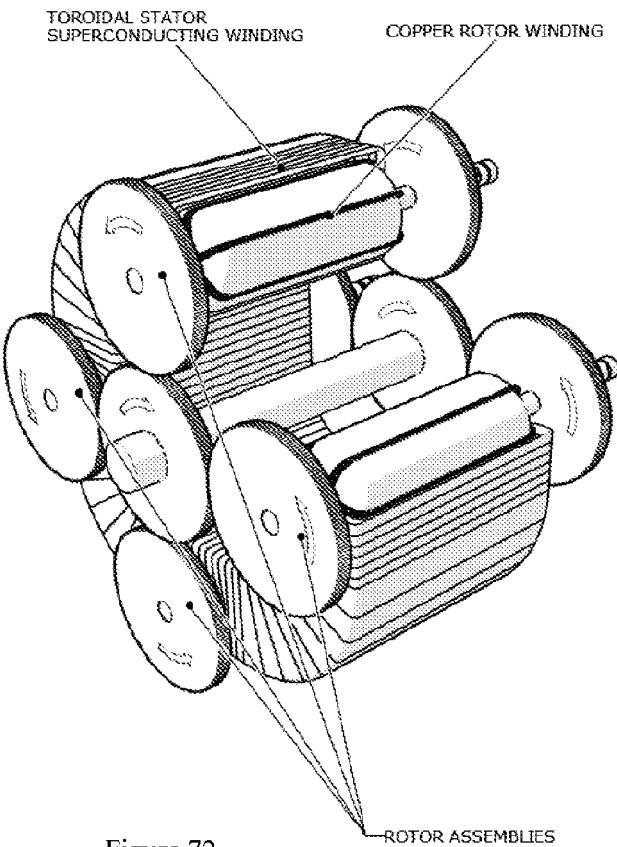


Figure 72

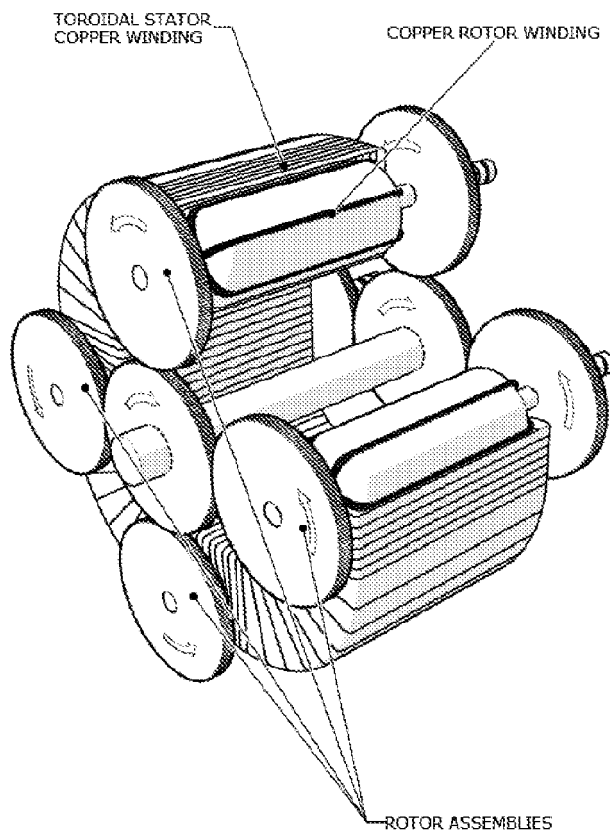


Figure 73

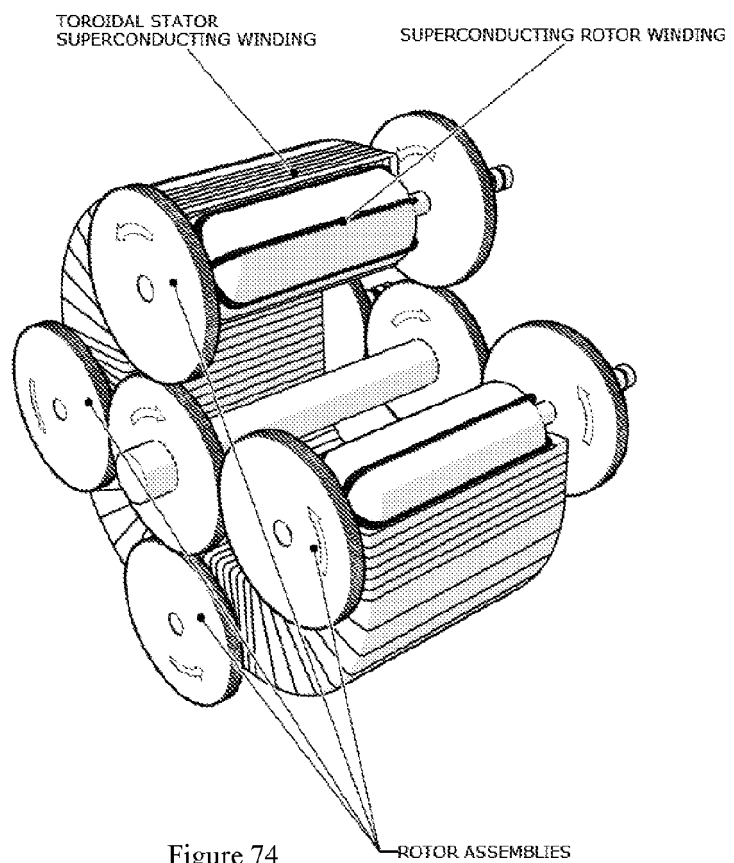


Figure 74

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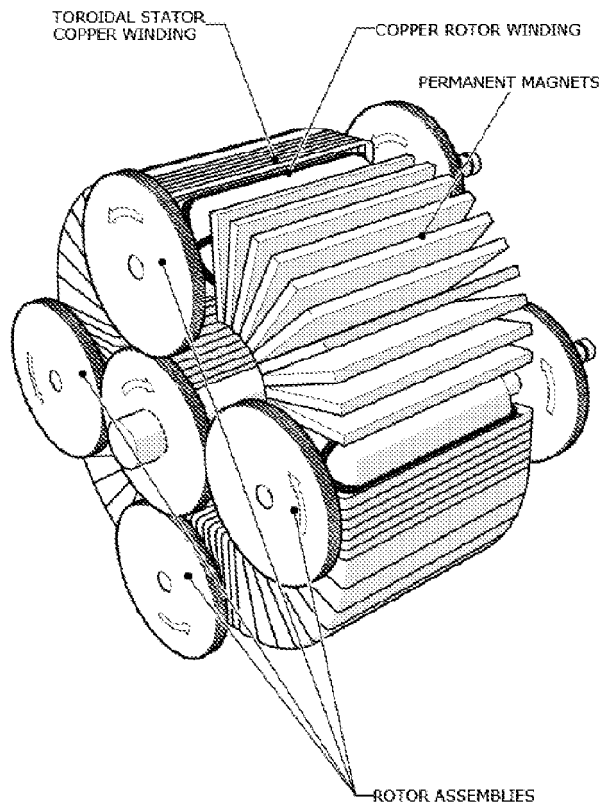


Figure 75

TOROIDAL PERMANENT
MAGNET ASSEMBLY

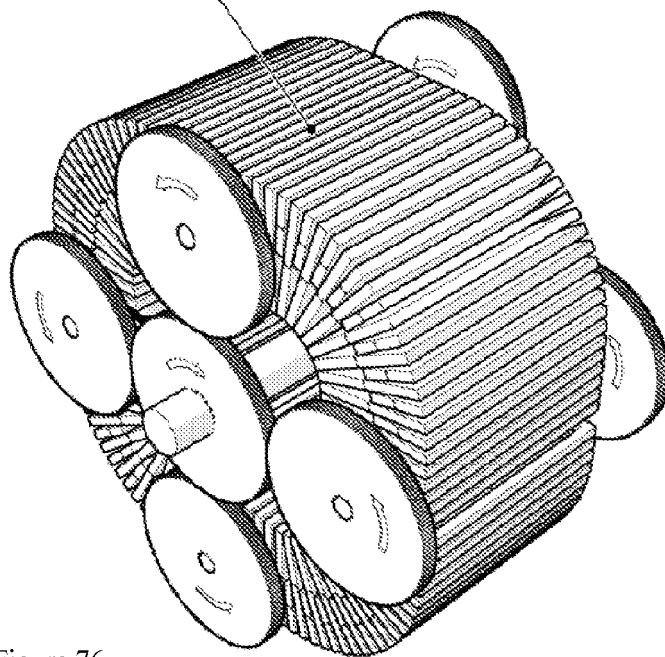


Figure 76

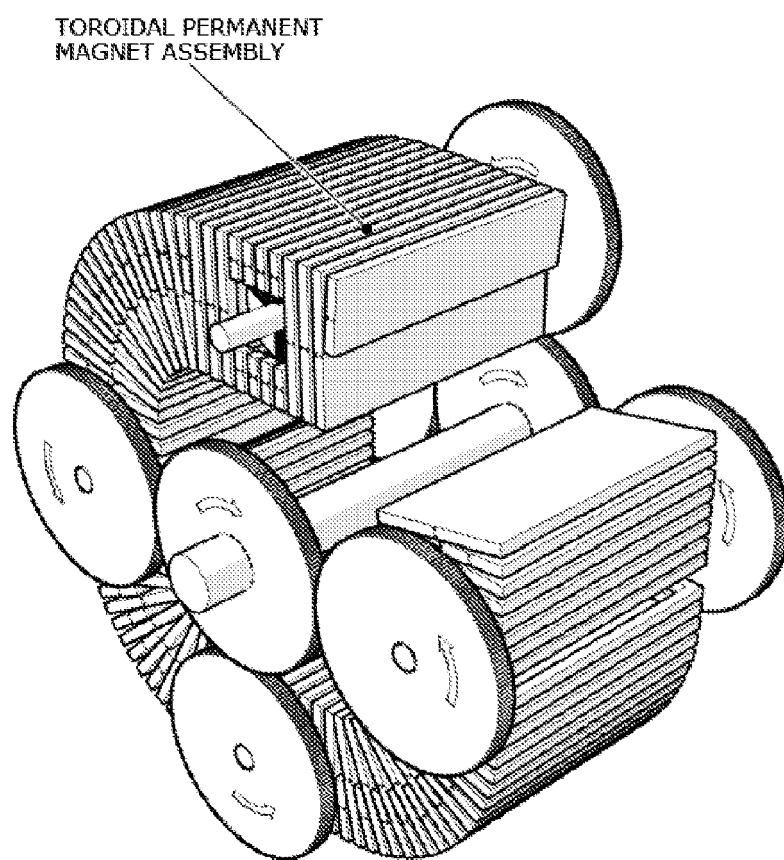


Figure 77

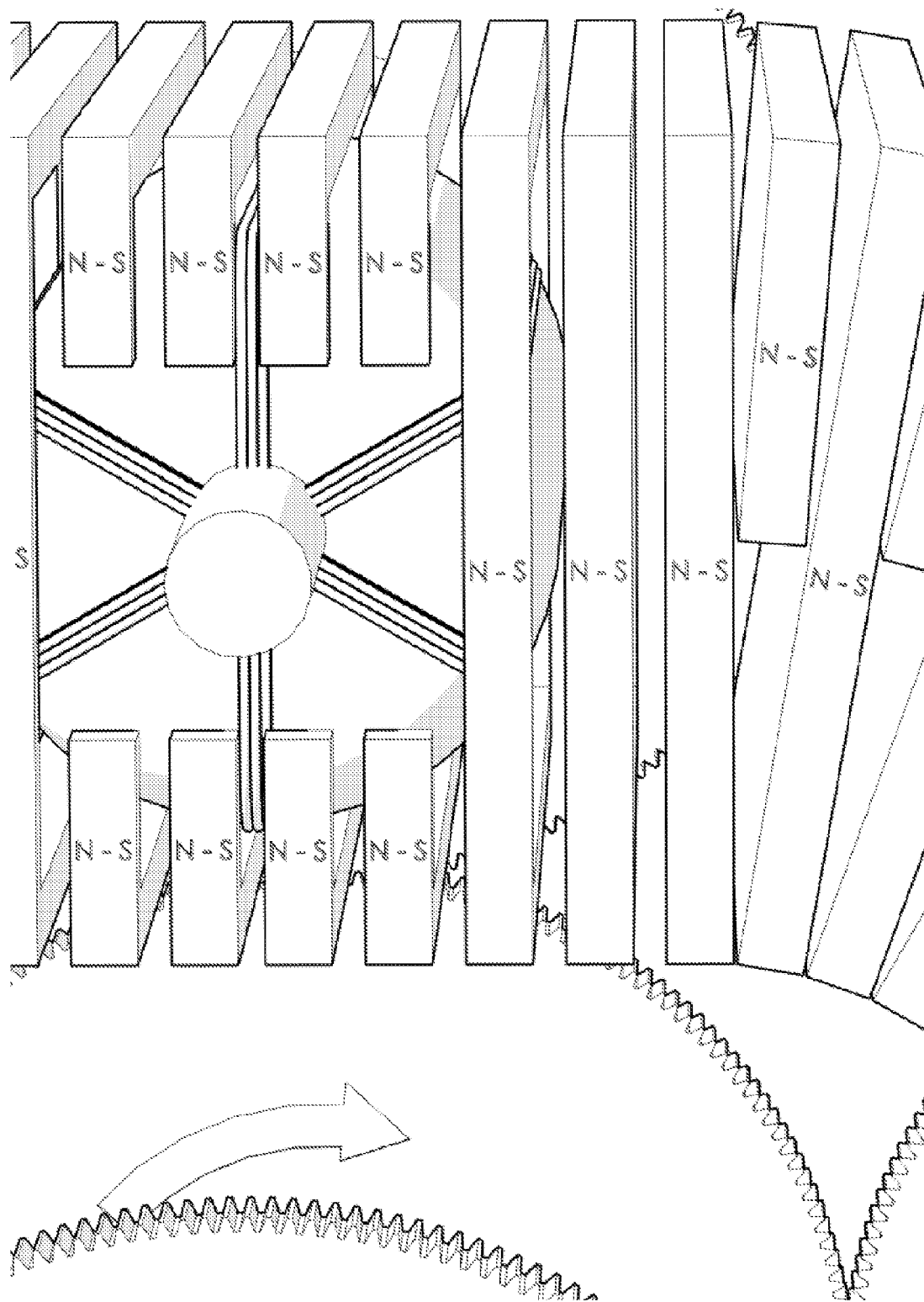


Figure 78

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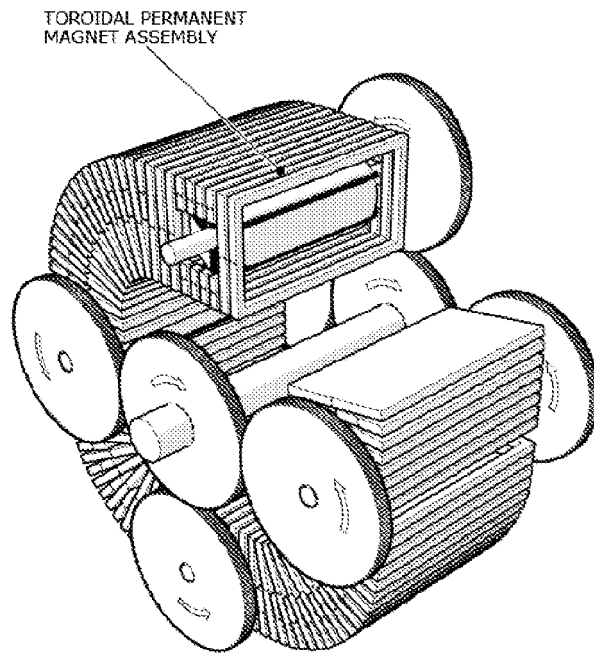


Figure 79

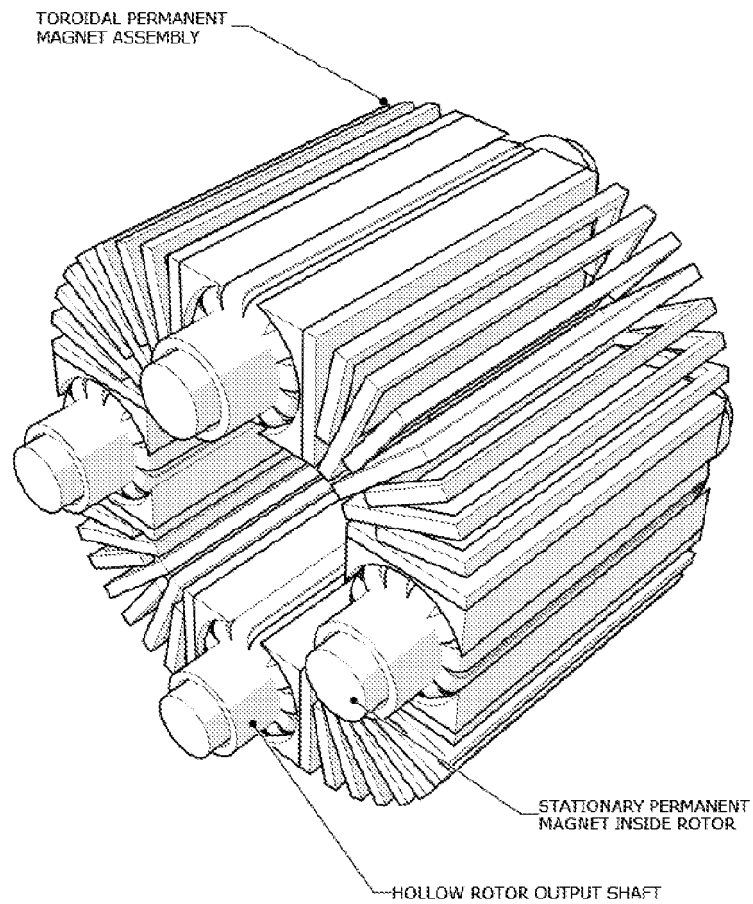


Figure 80

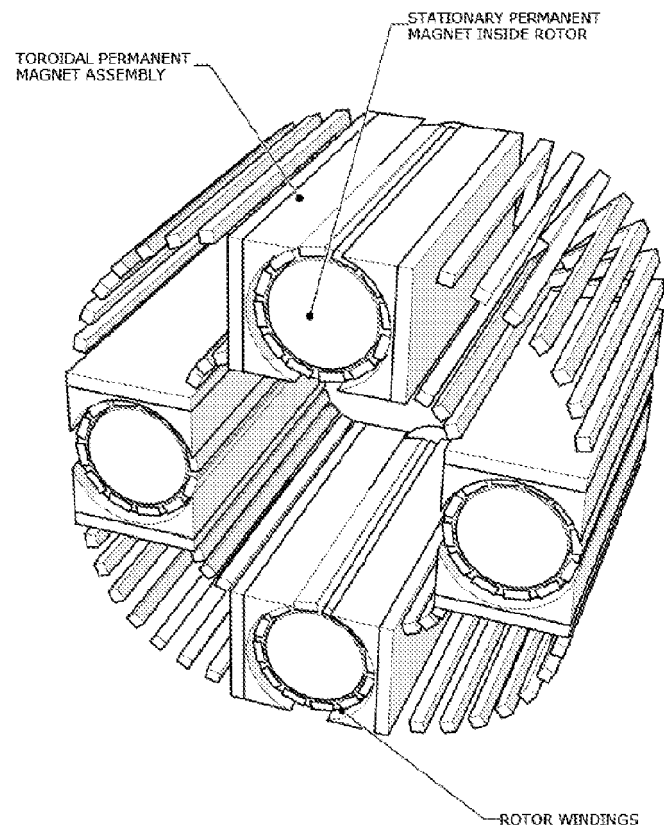


Figure 81

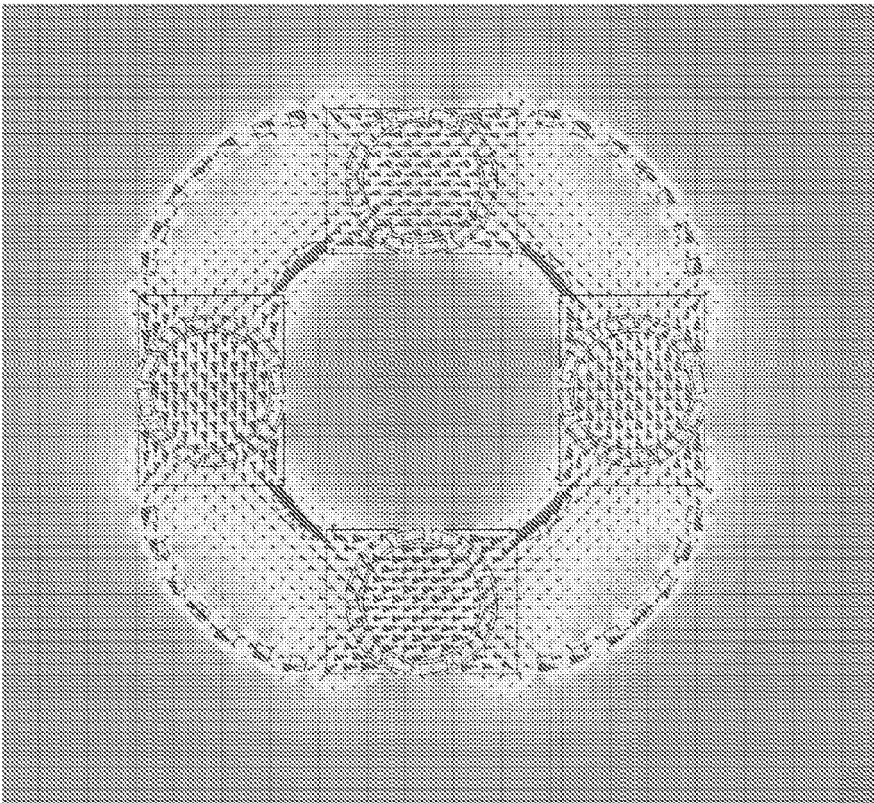


Figure 82

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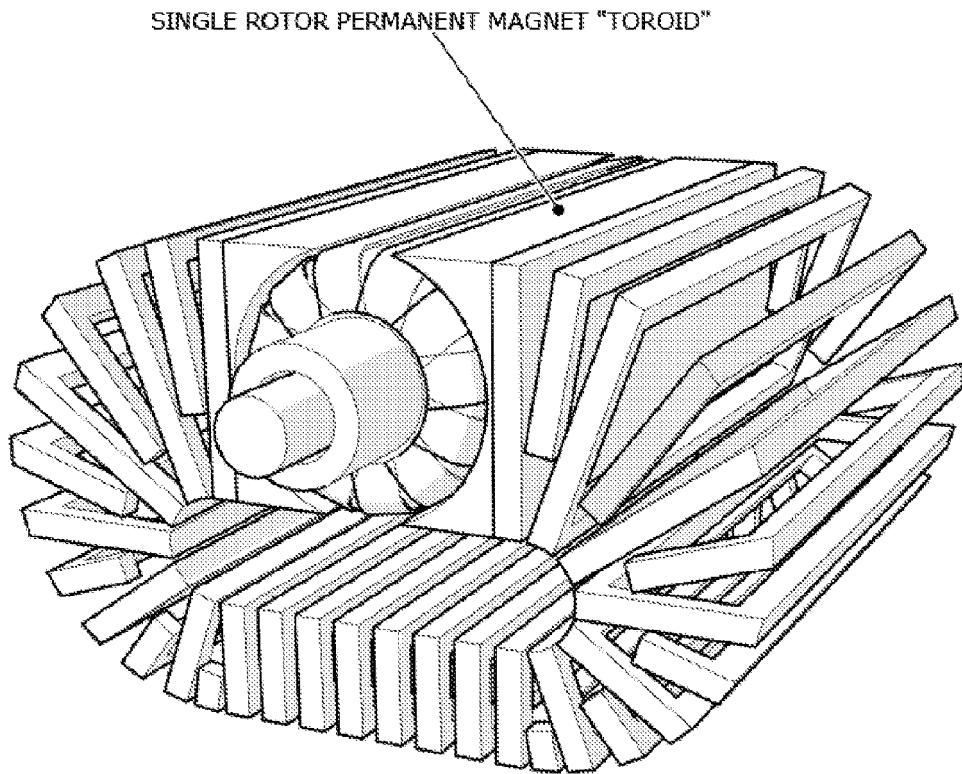


Figure 83

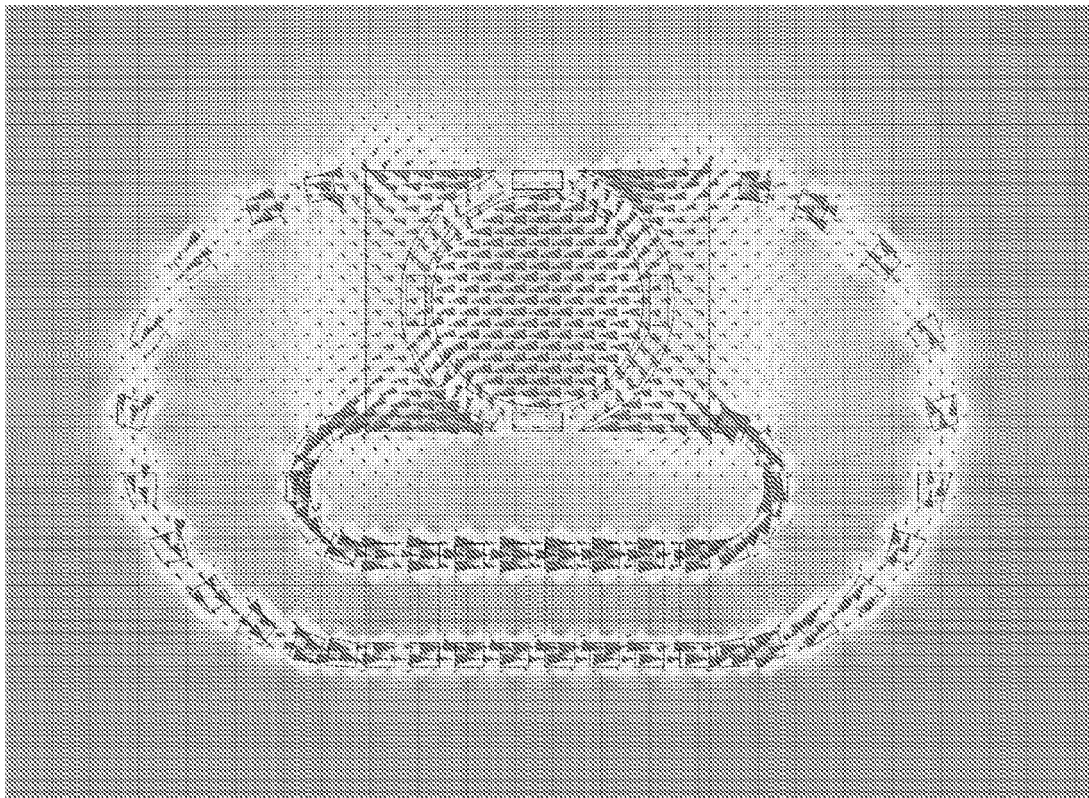


Figure 84

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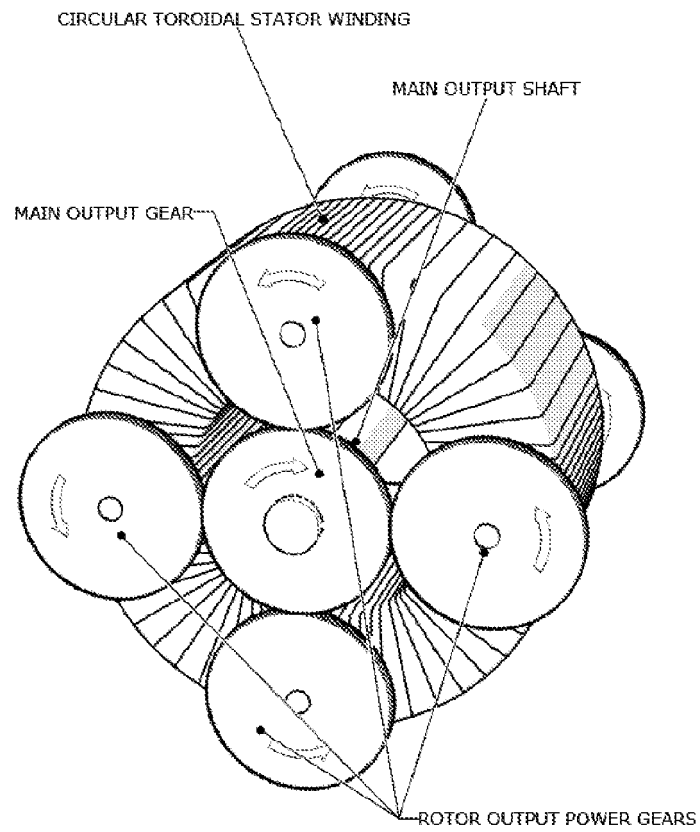


Figure 85

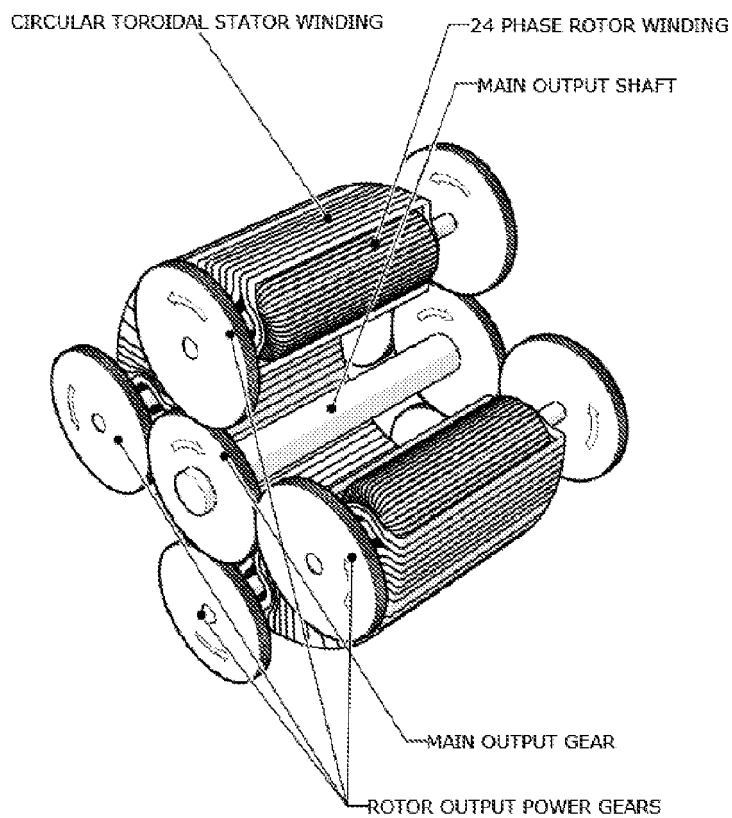


Figure 86

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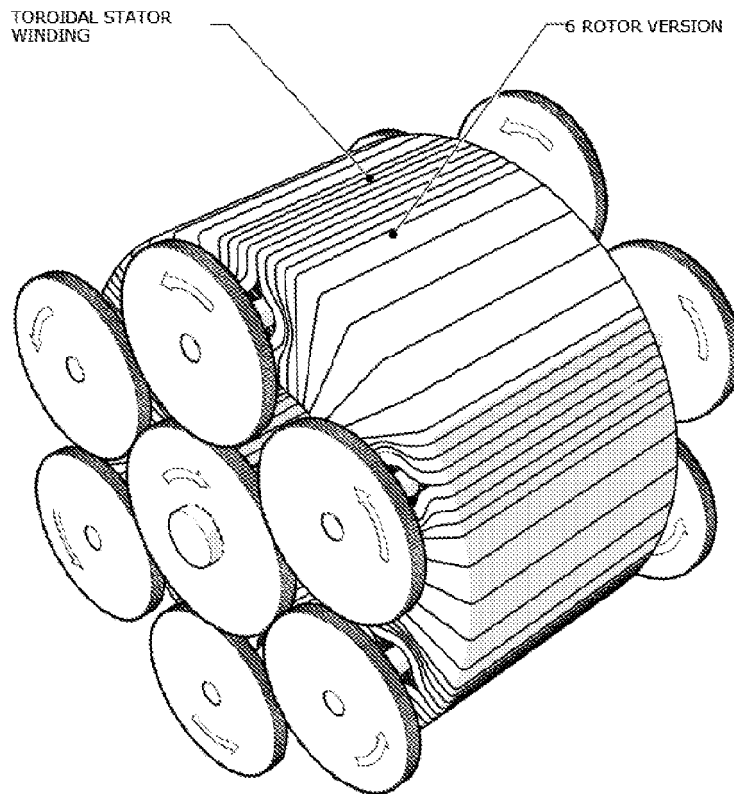


Figure 87

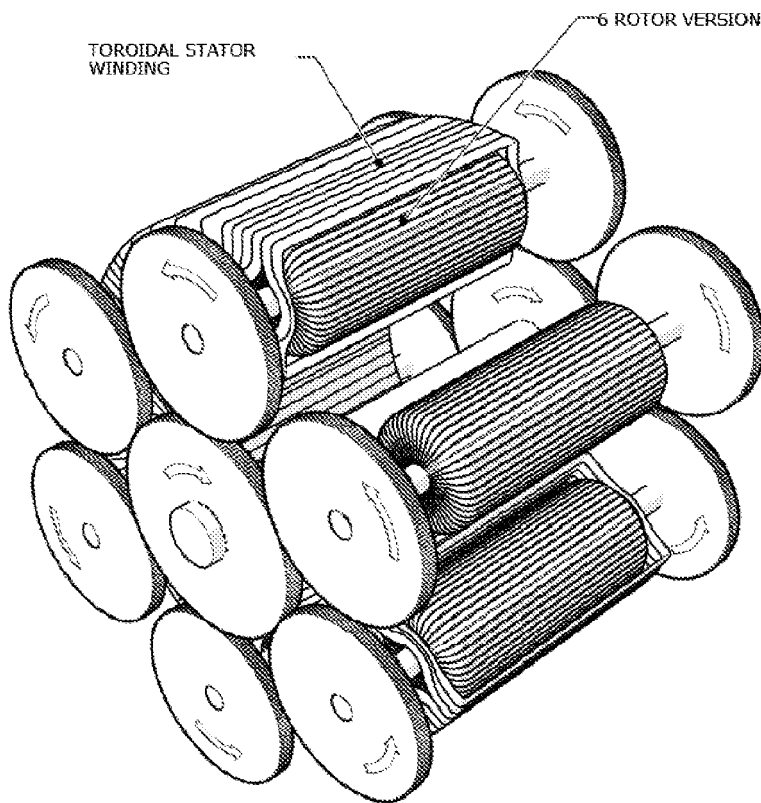


Figure 88

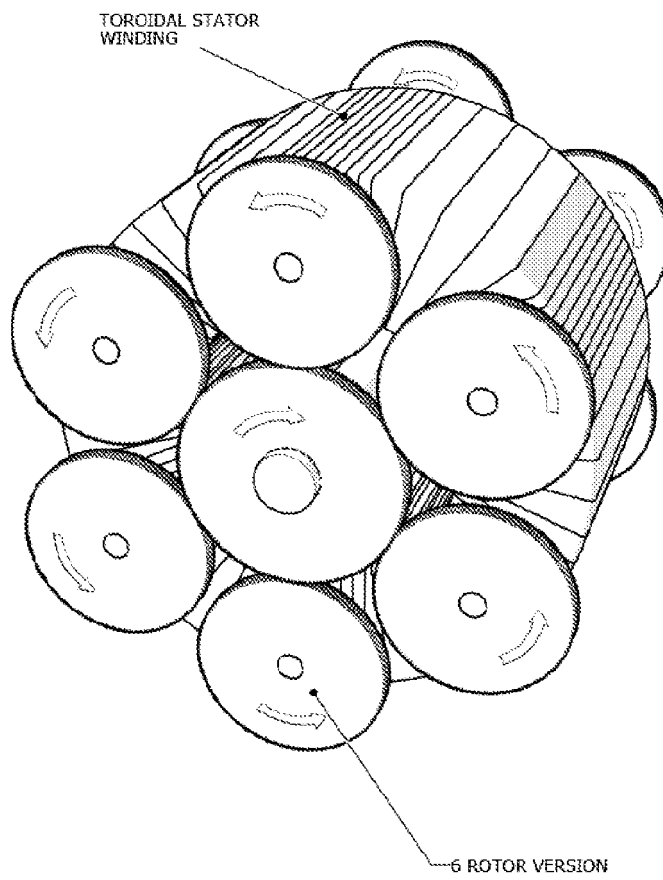


Figure 89
TOROIDAL SUPERCONDUCTING WINDING

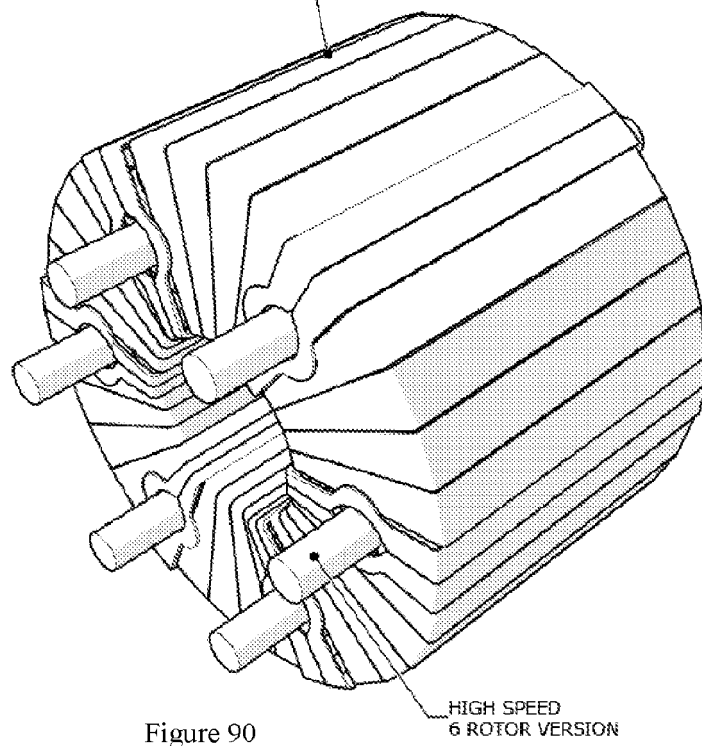


Figure 90

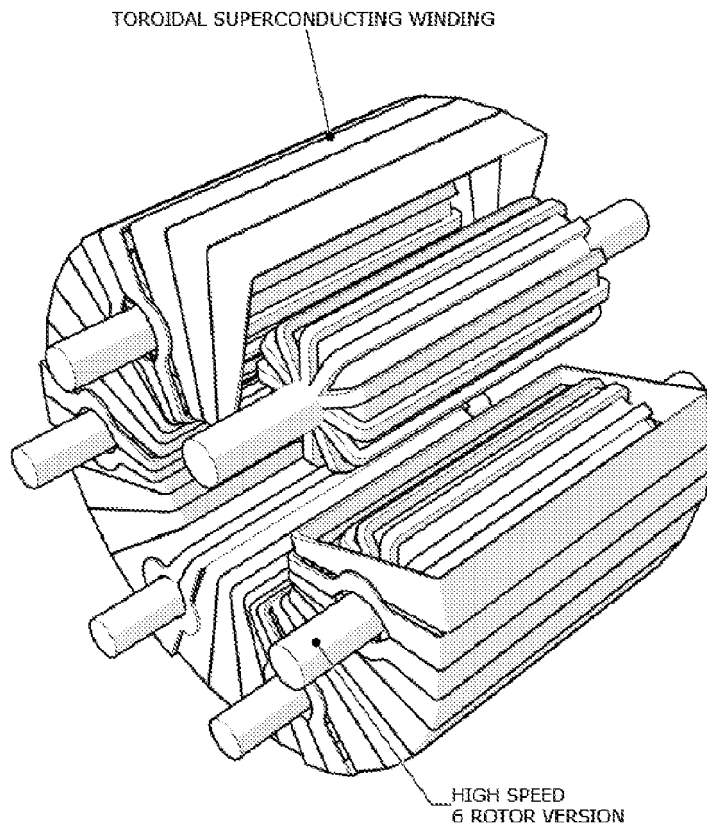


Figure 91

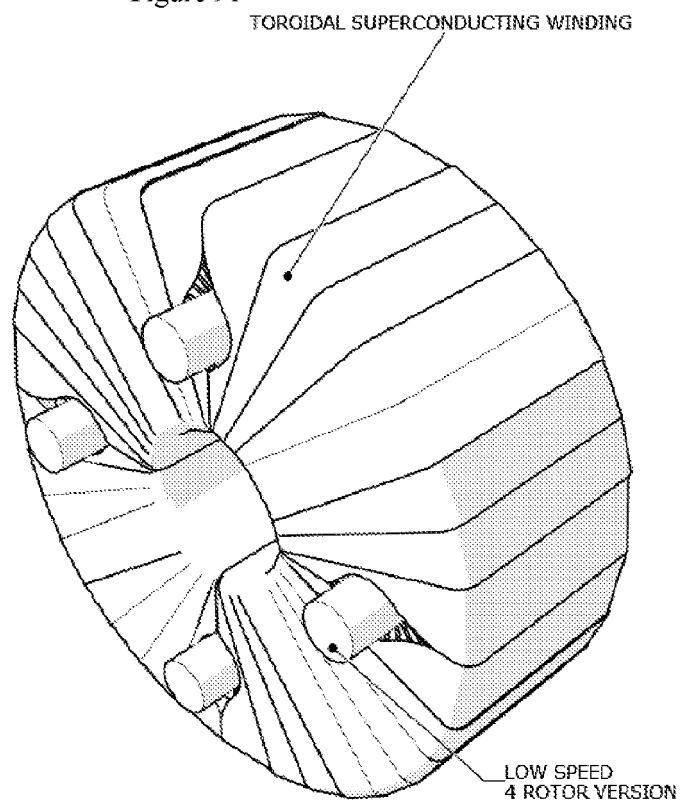


Figure 92

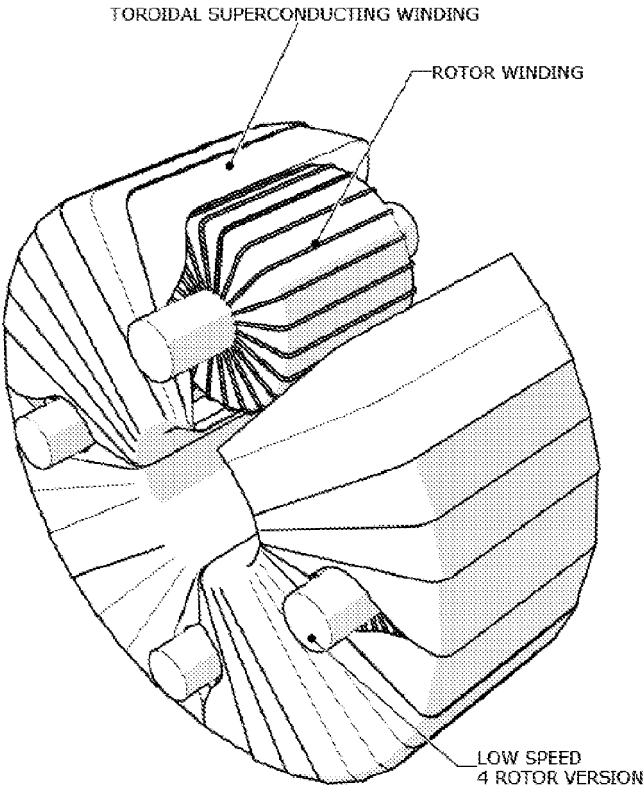


Figure 93

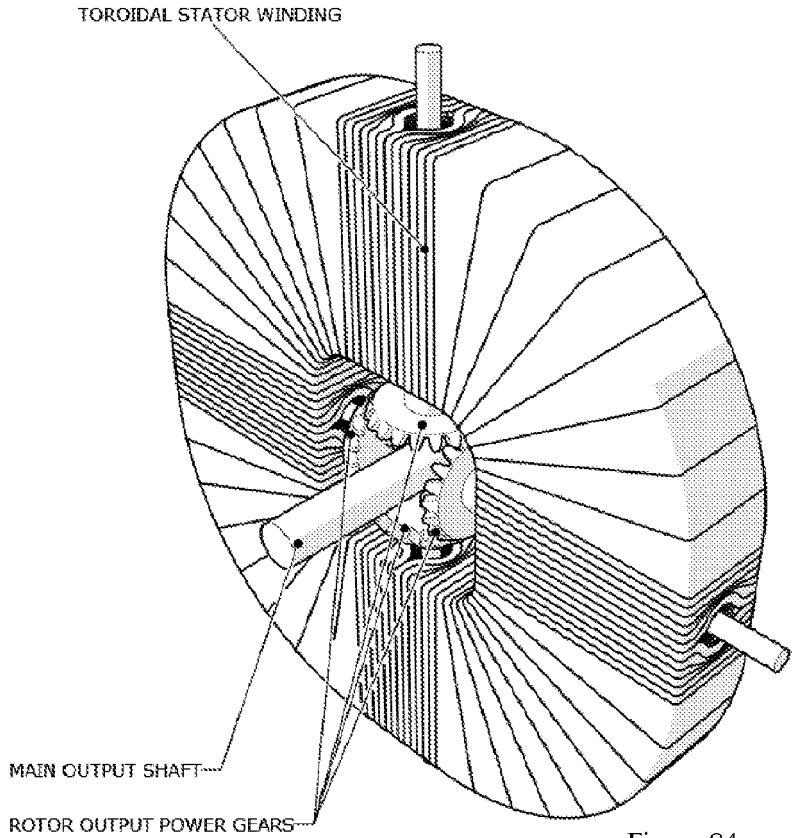


Figure 94

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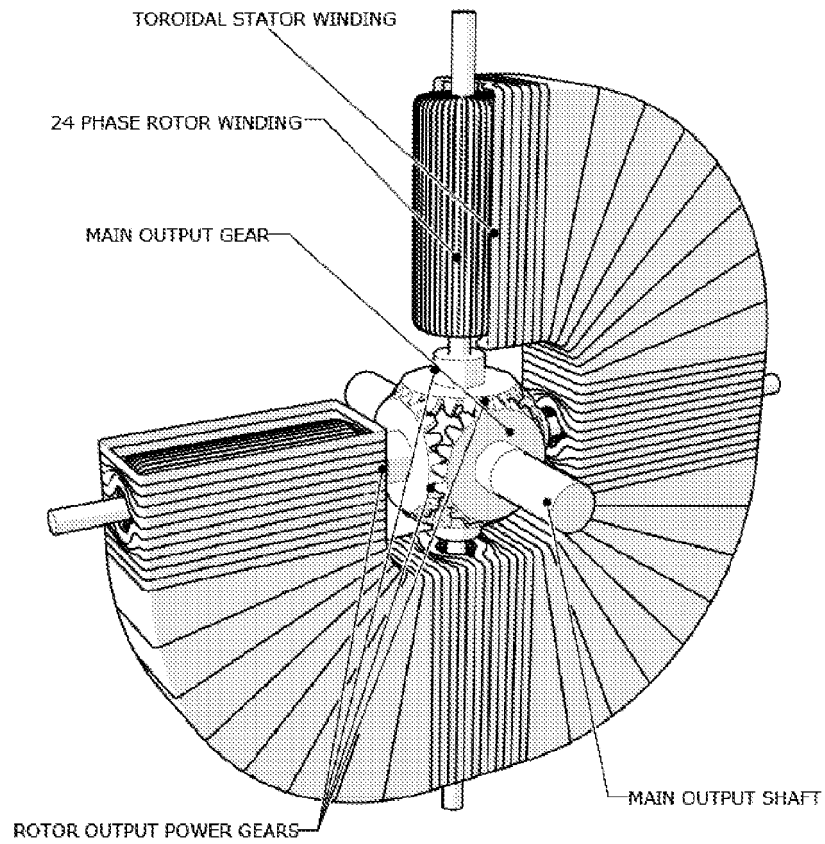


Figure 95

SINGLE ROTOR PERMANENT MAGNET MOTOR/GENERATOR

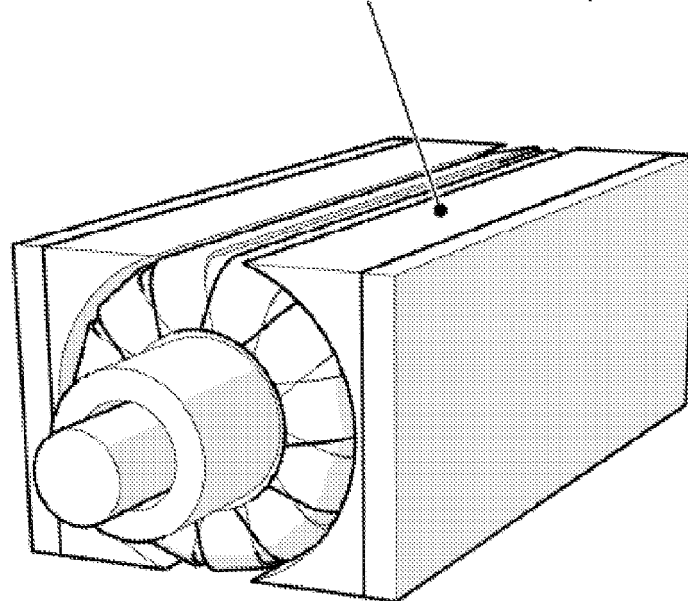


Figure 96

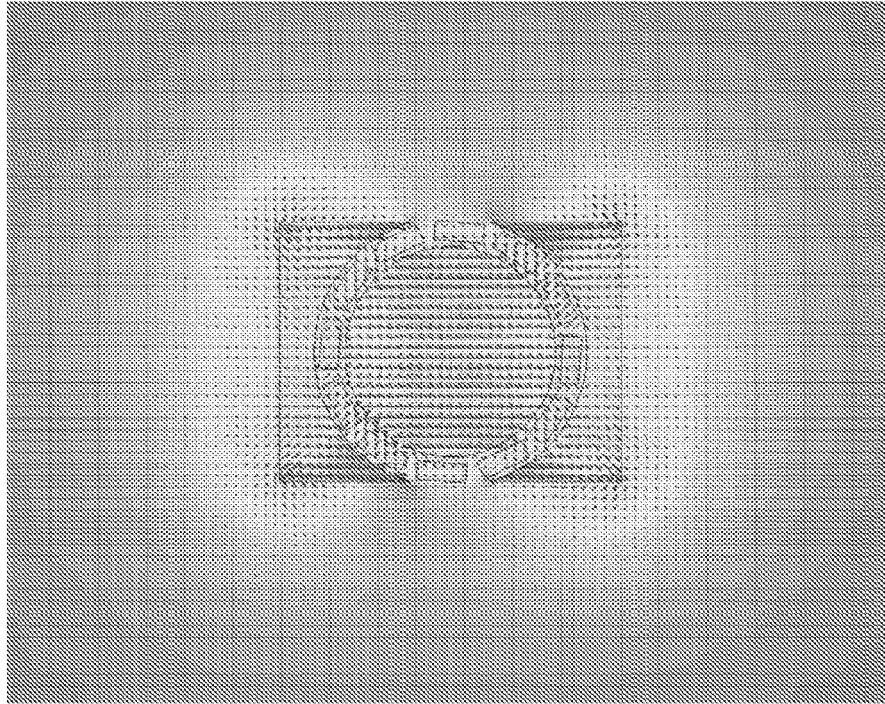


Figure 97

SINGLE ROTOR CURVED PERMANENT MAGNET MOTOR/GENERATOR

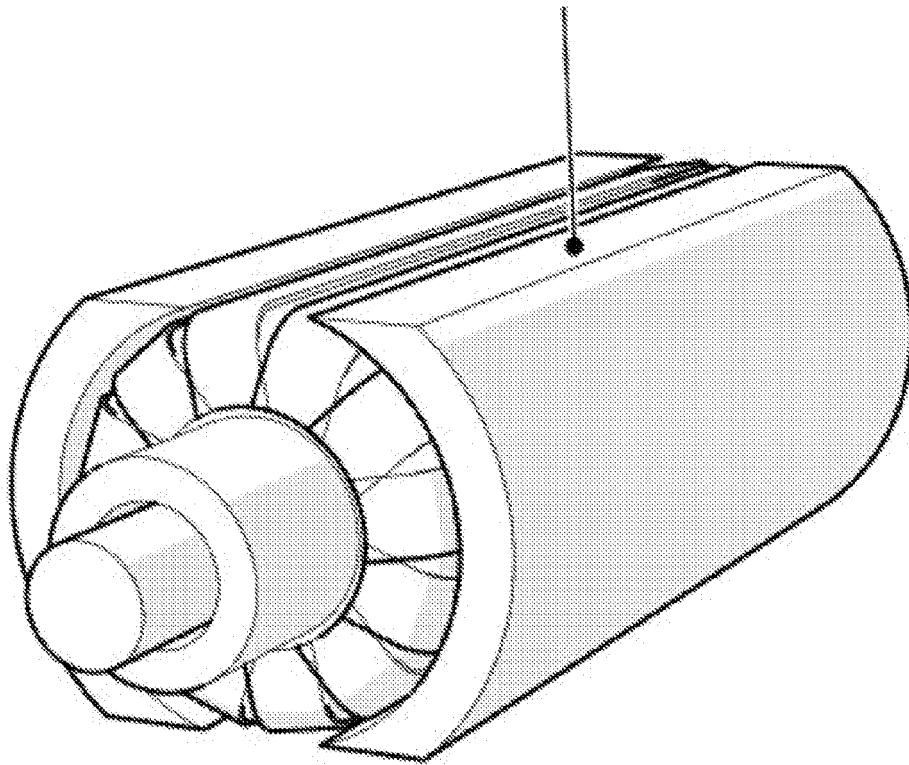


Figure 98

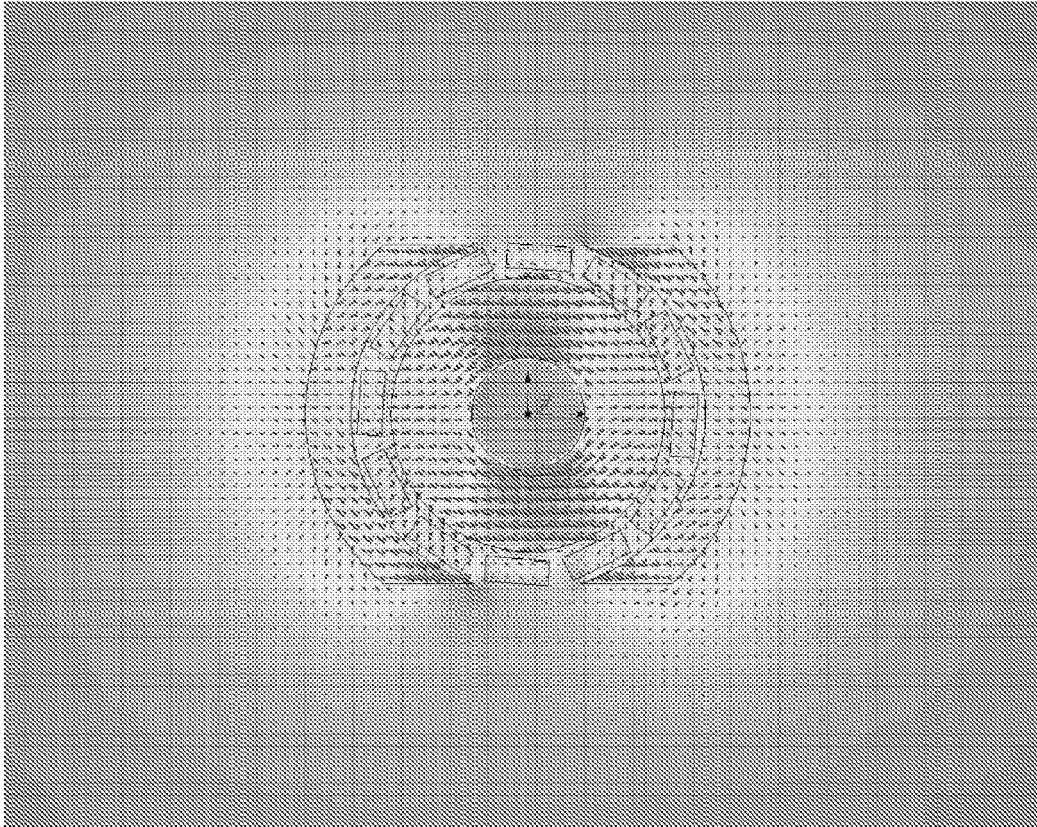


Figure 99

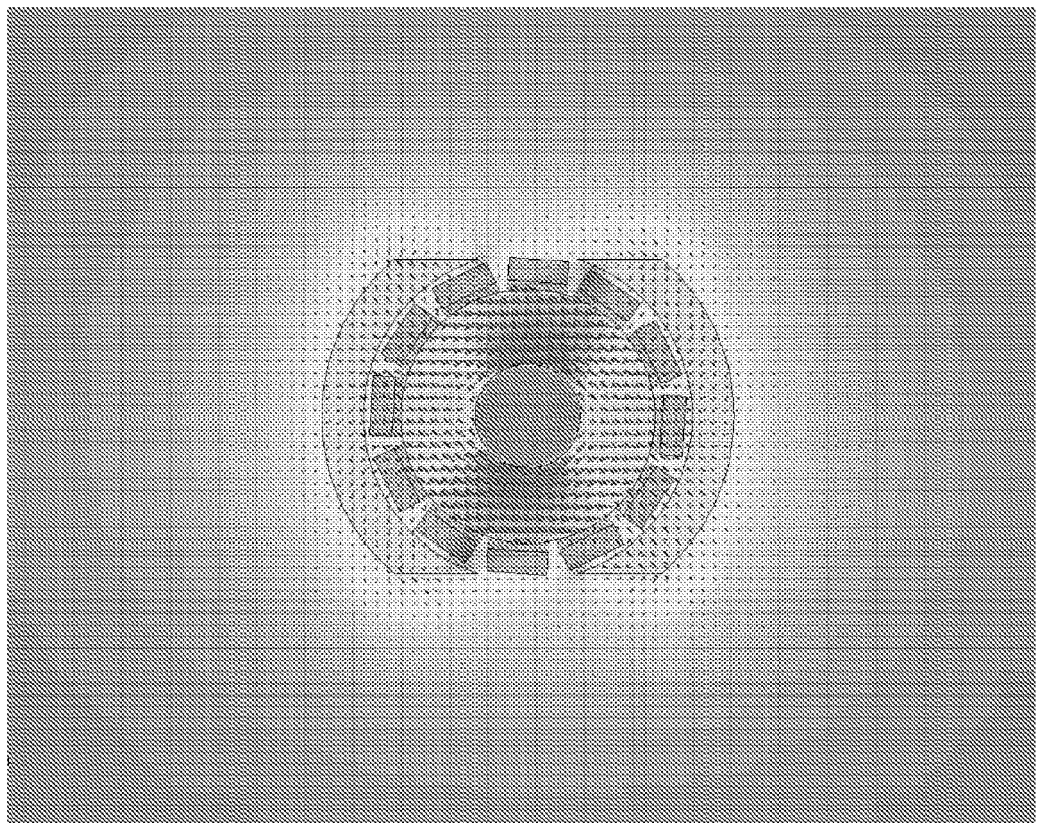


Figure 100

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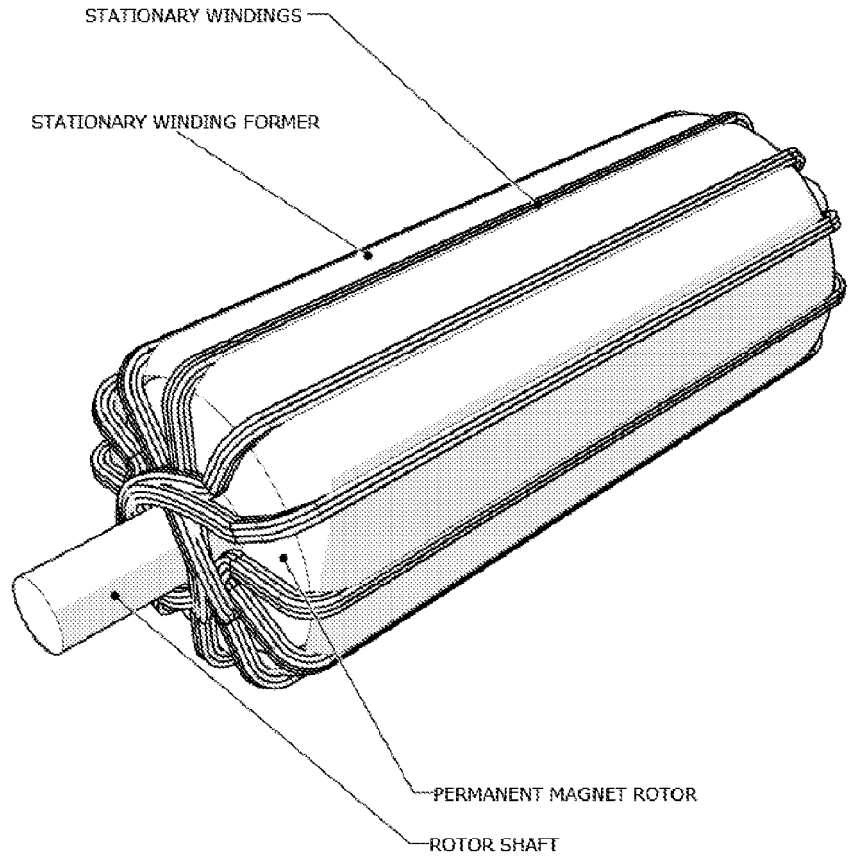


Figure 101

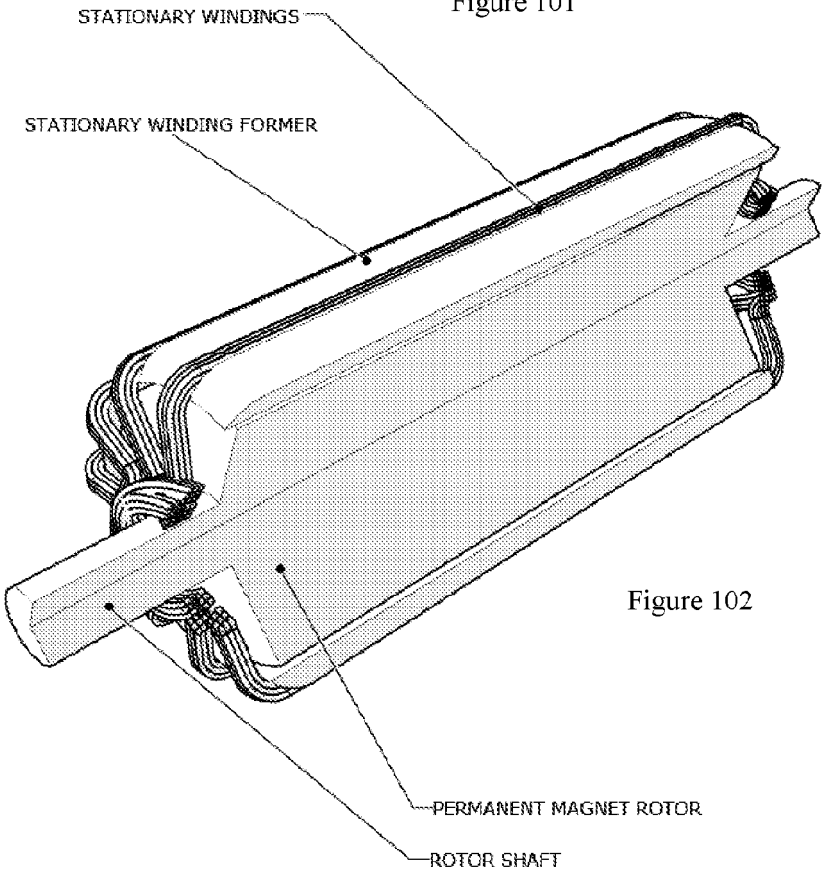


Figure 102

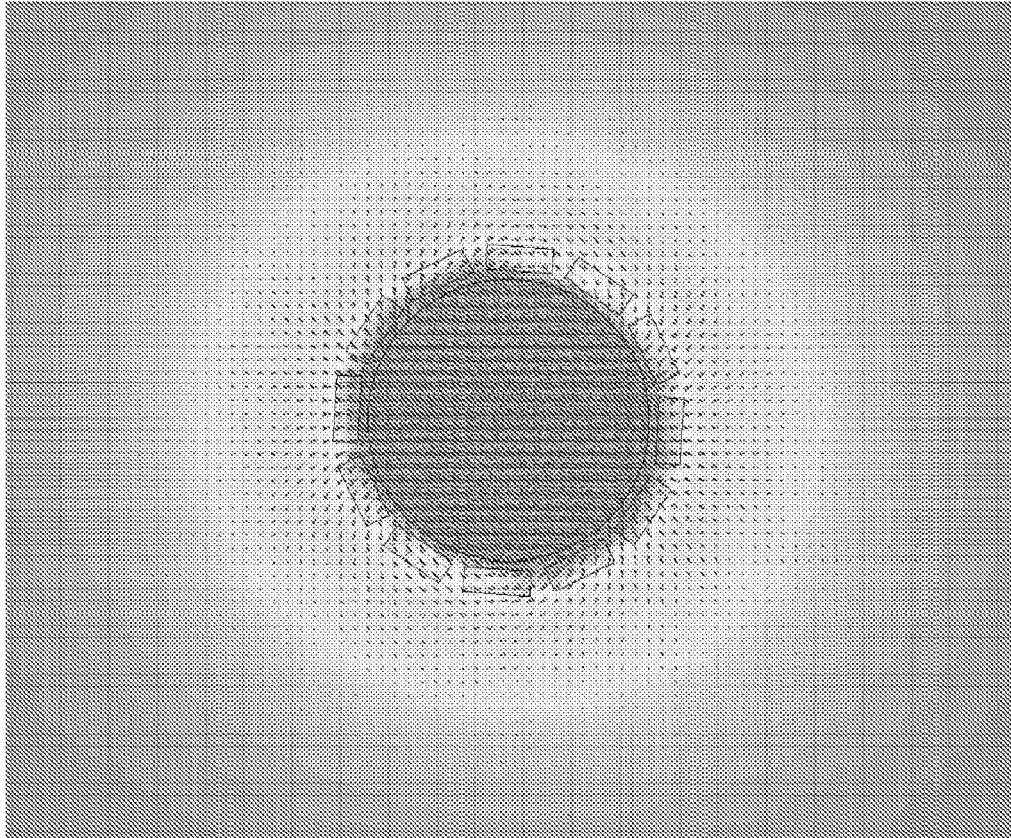


Figure 103

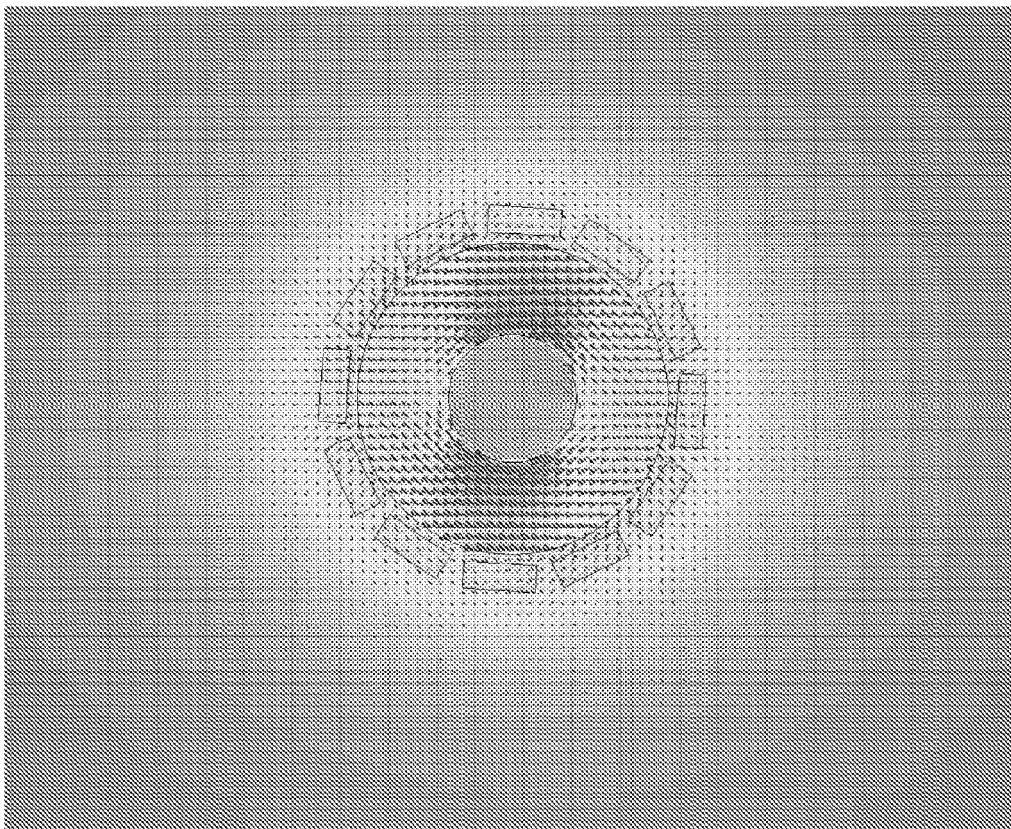


Figure 104

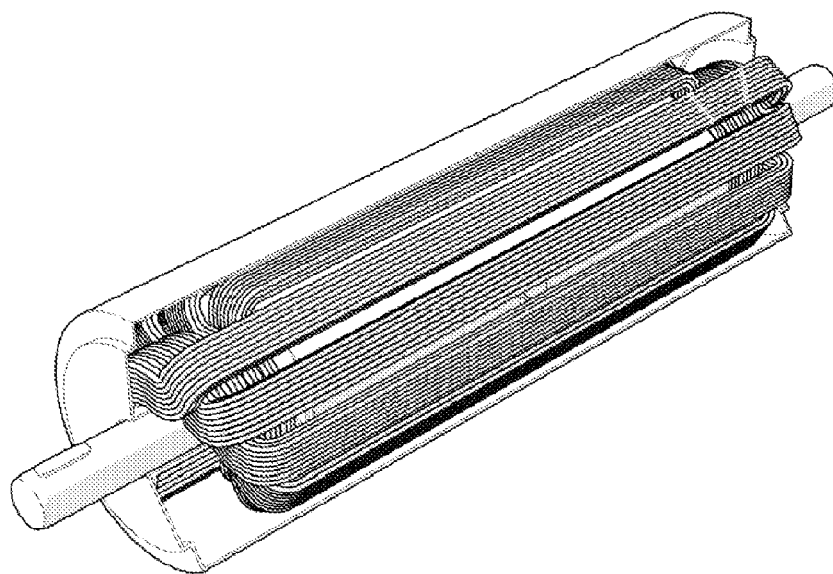


Figure 105

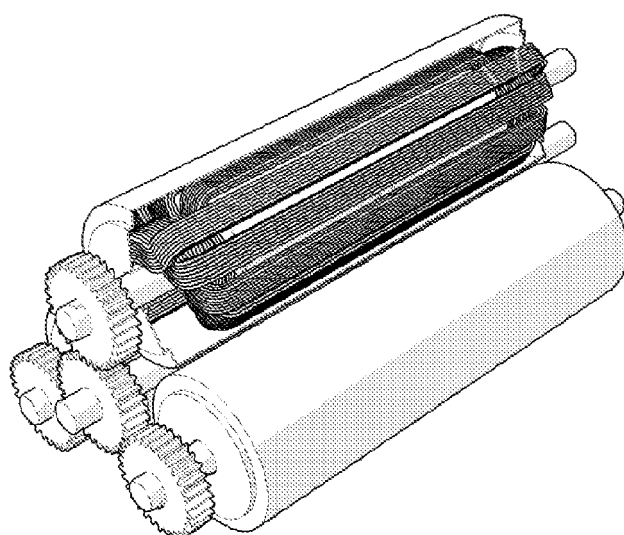


Figure 106

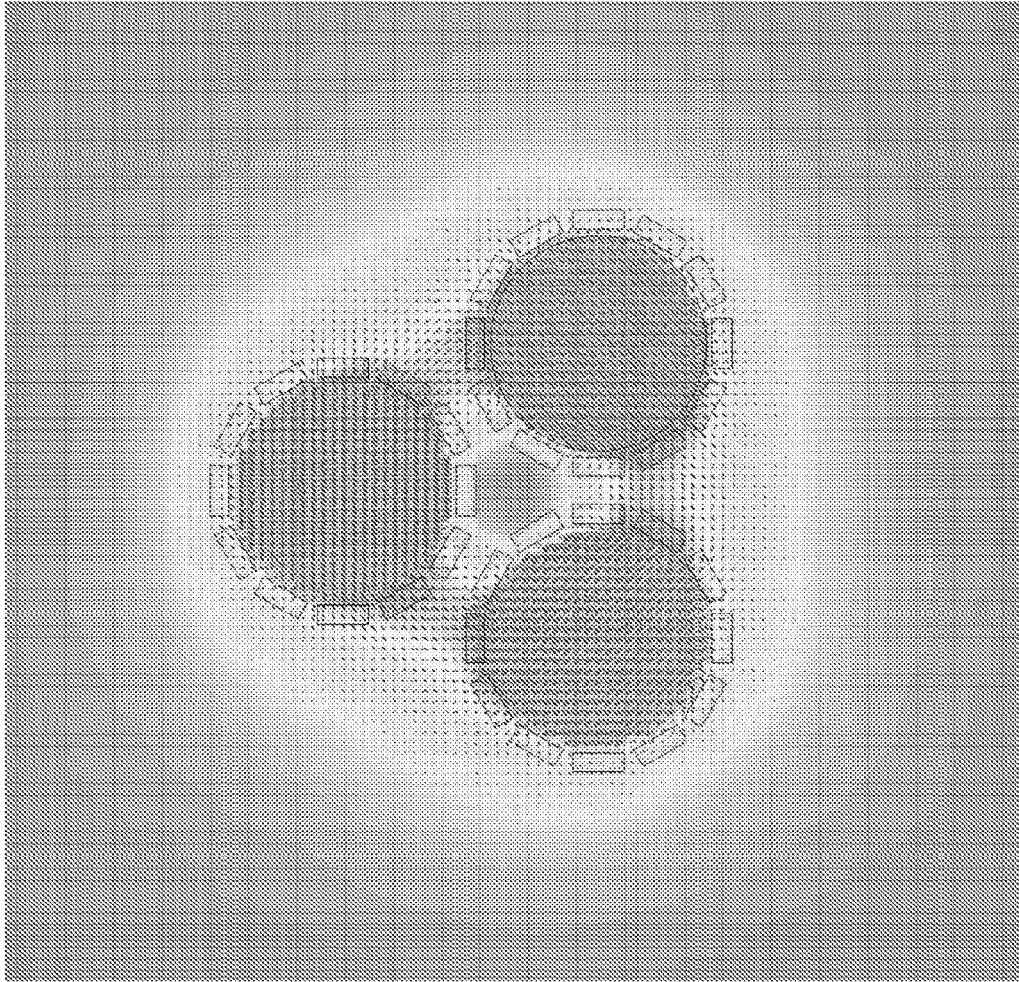


Figure 107

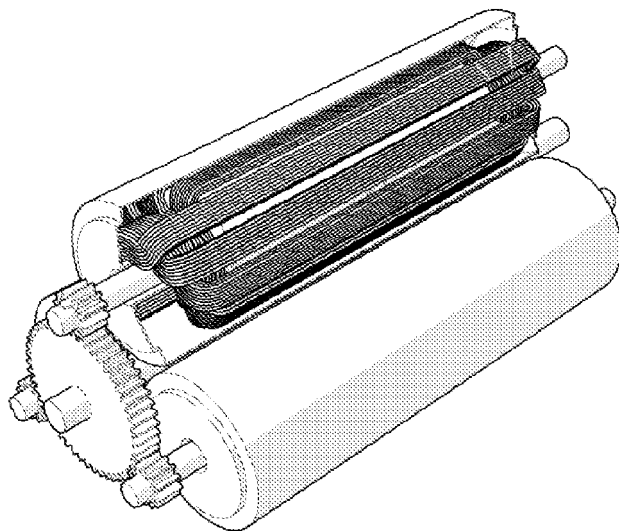


Figure 108

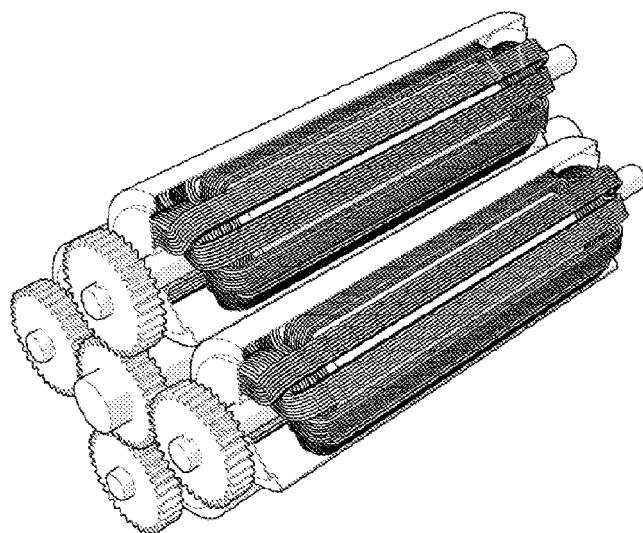


Figure 109

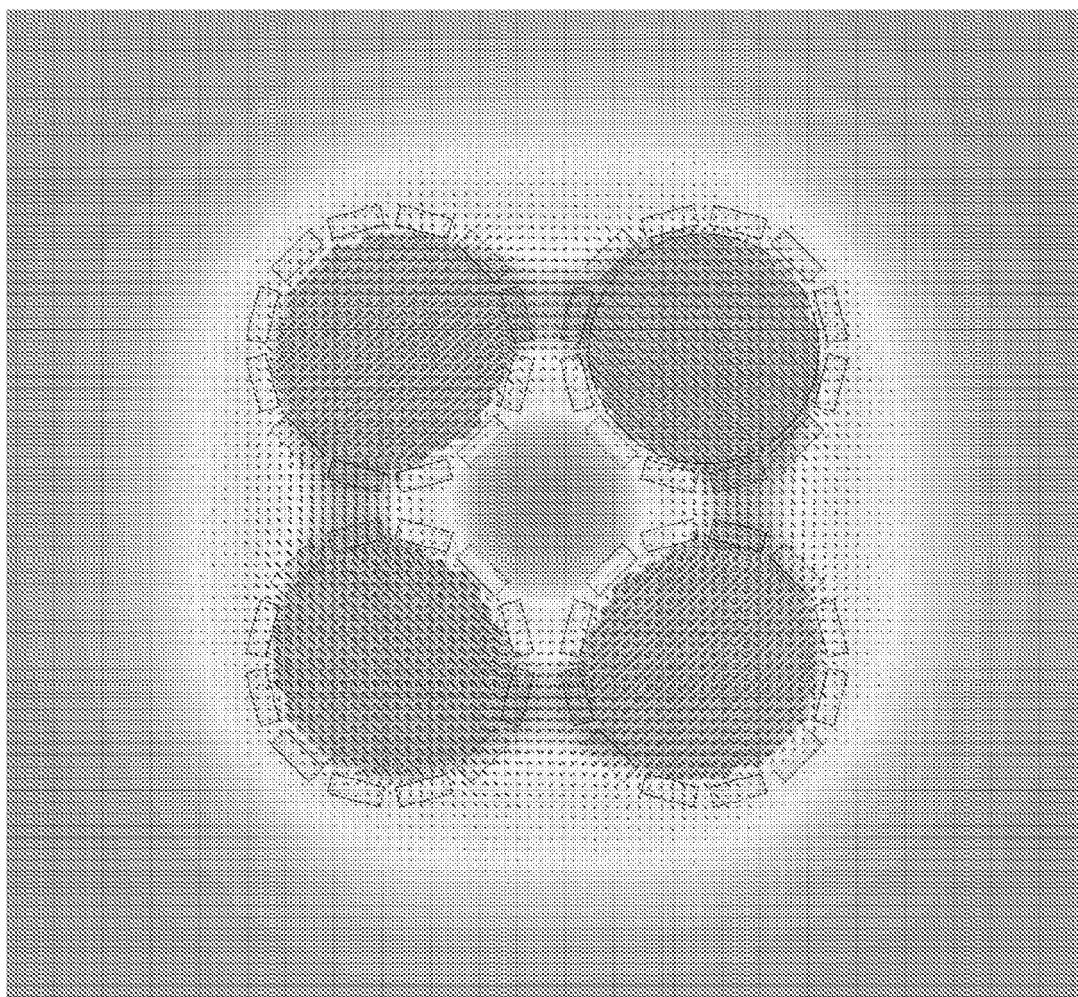


Figure 110

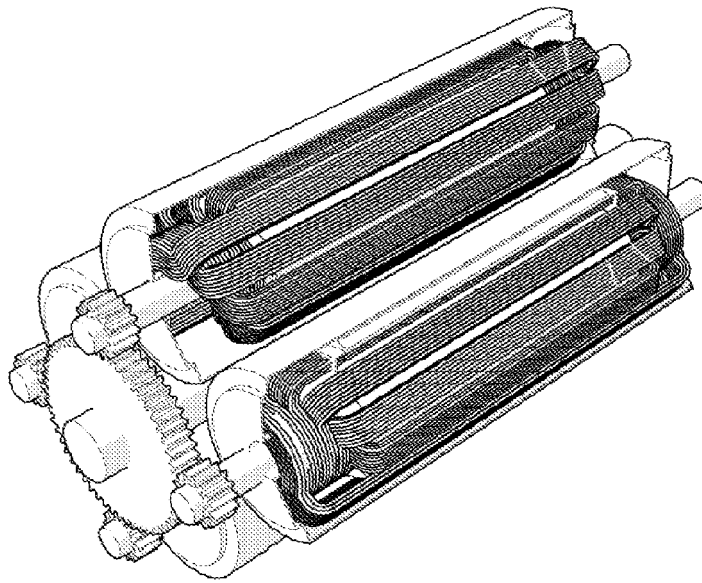


Figure 111

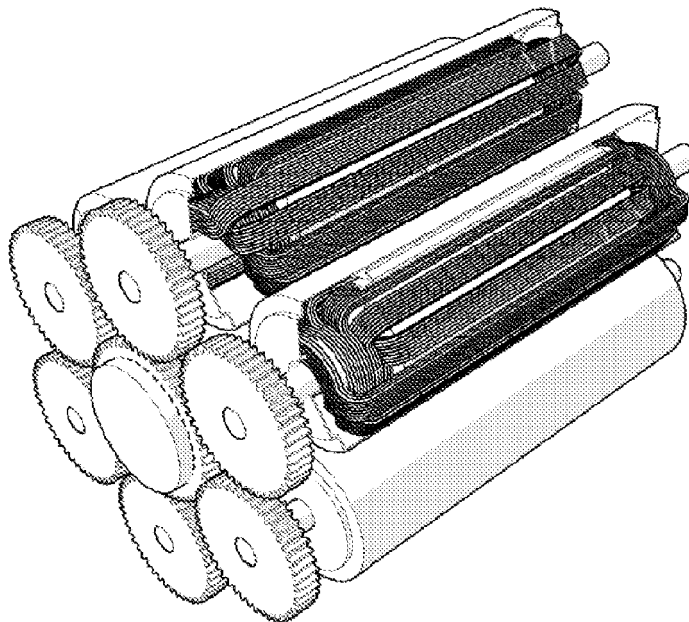


Figure 112

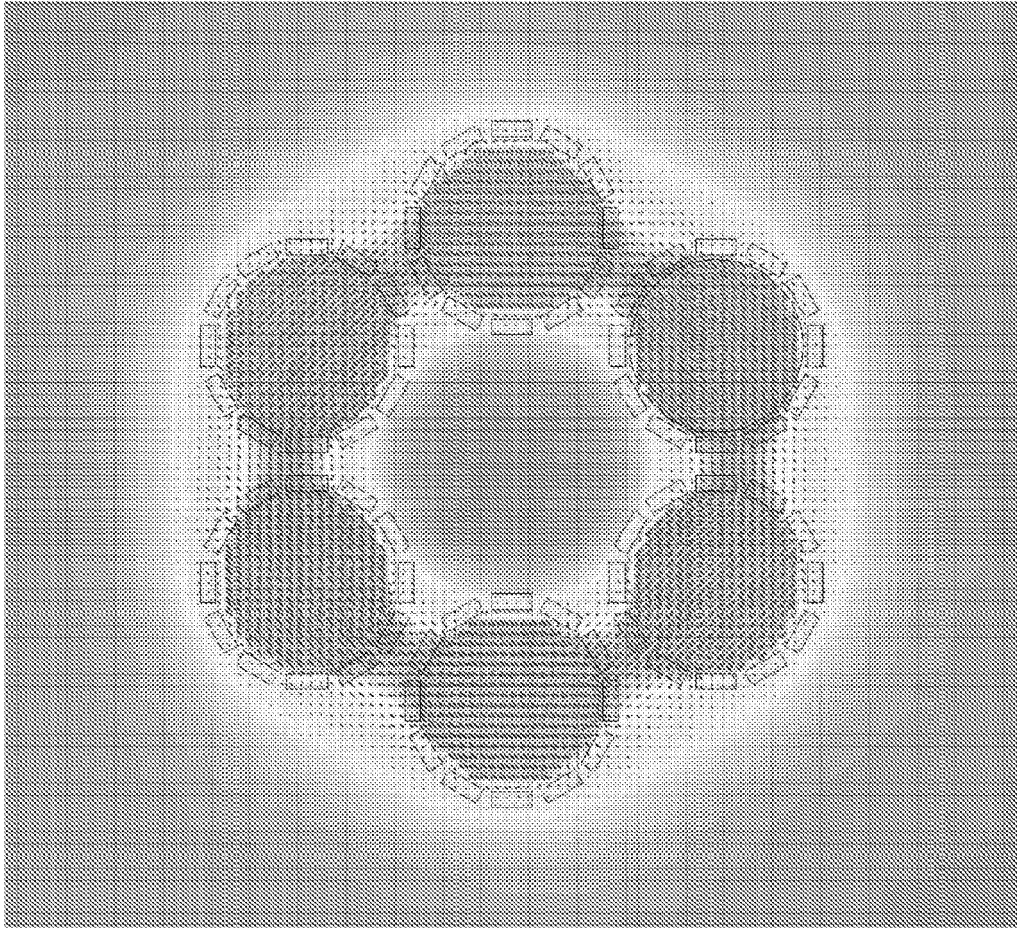


Figure 113

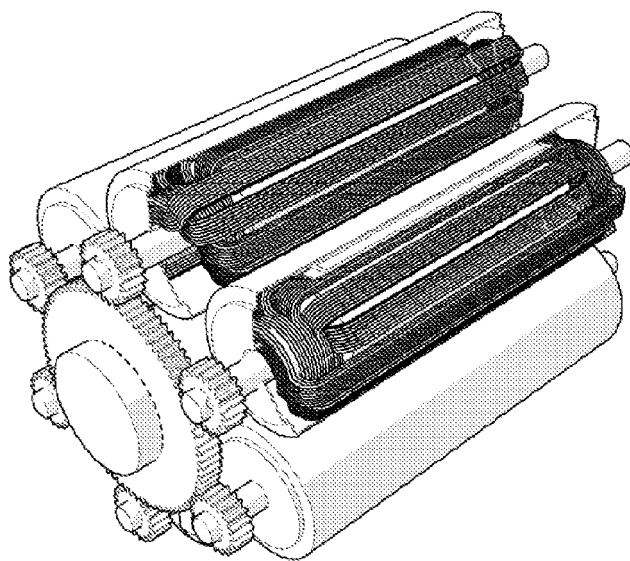


Figure 114

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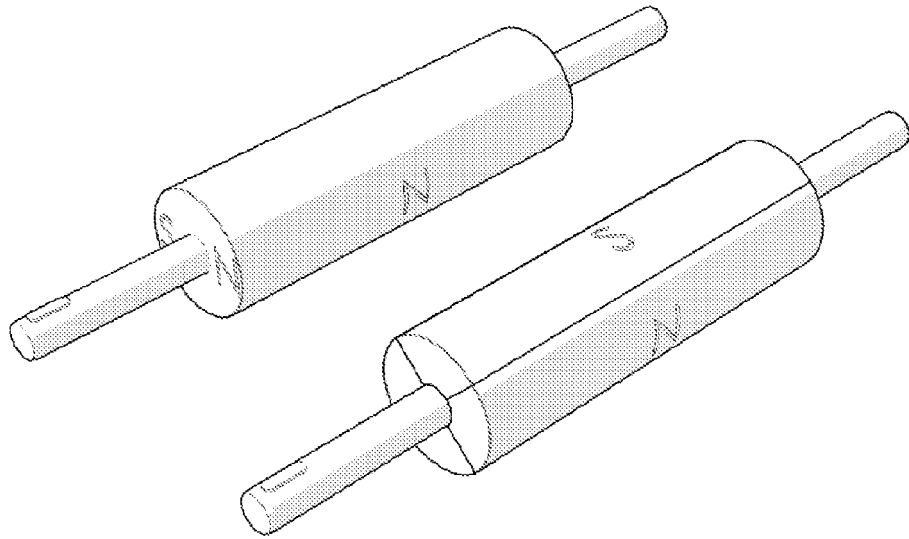


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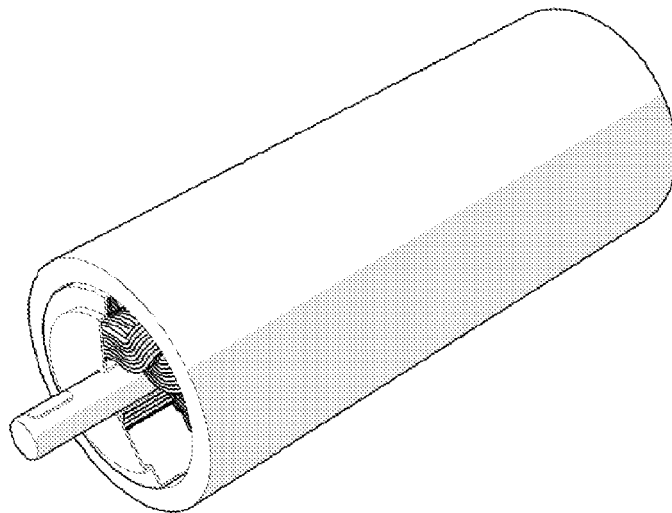


Figure 116

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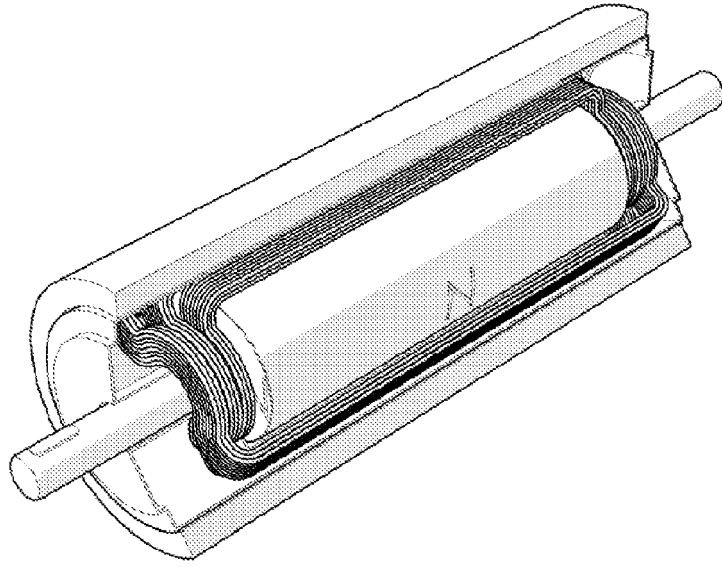


Figure 117

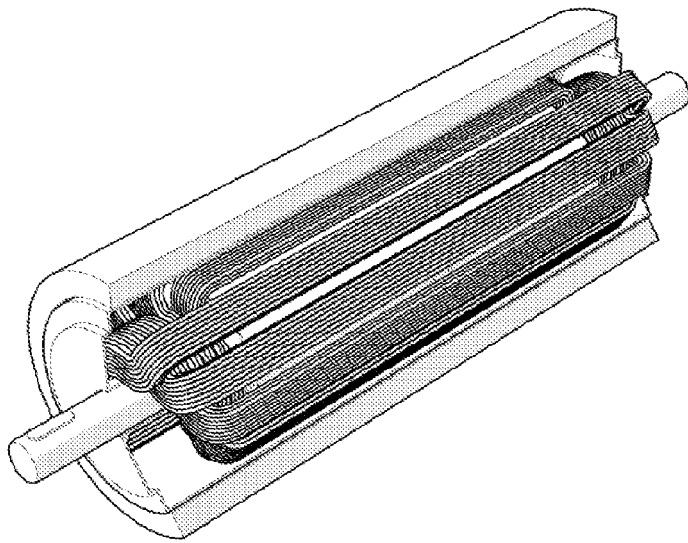


Figure 118

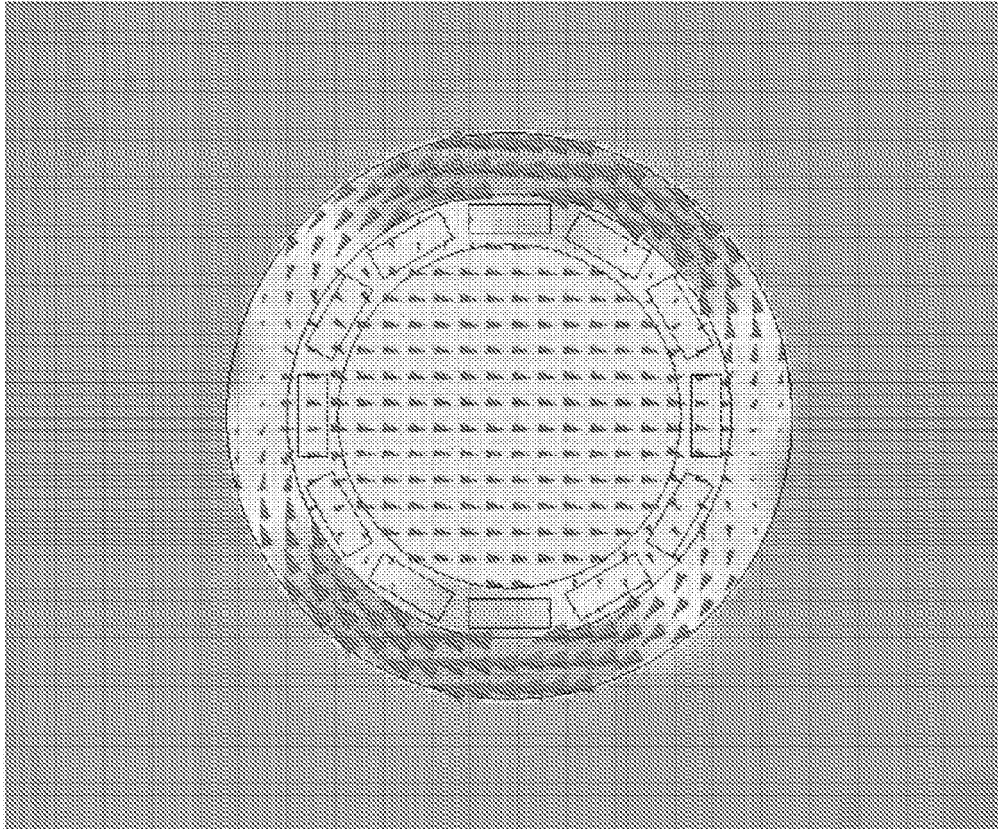


Figure 119

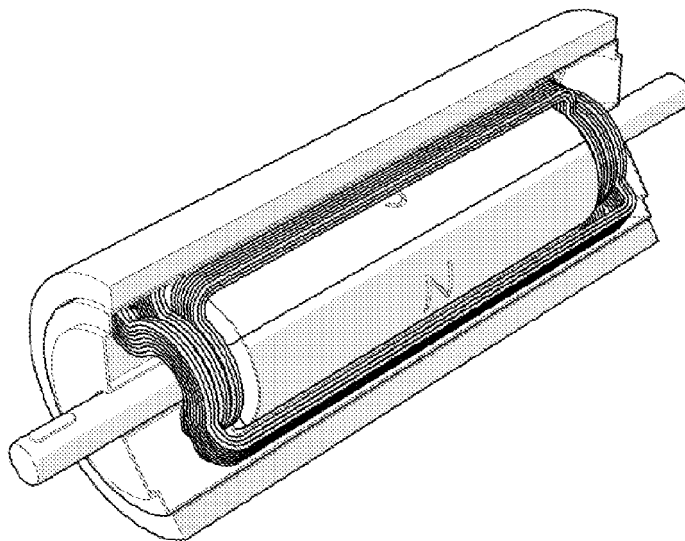


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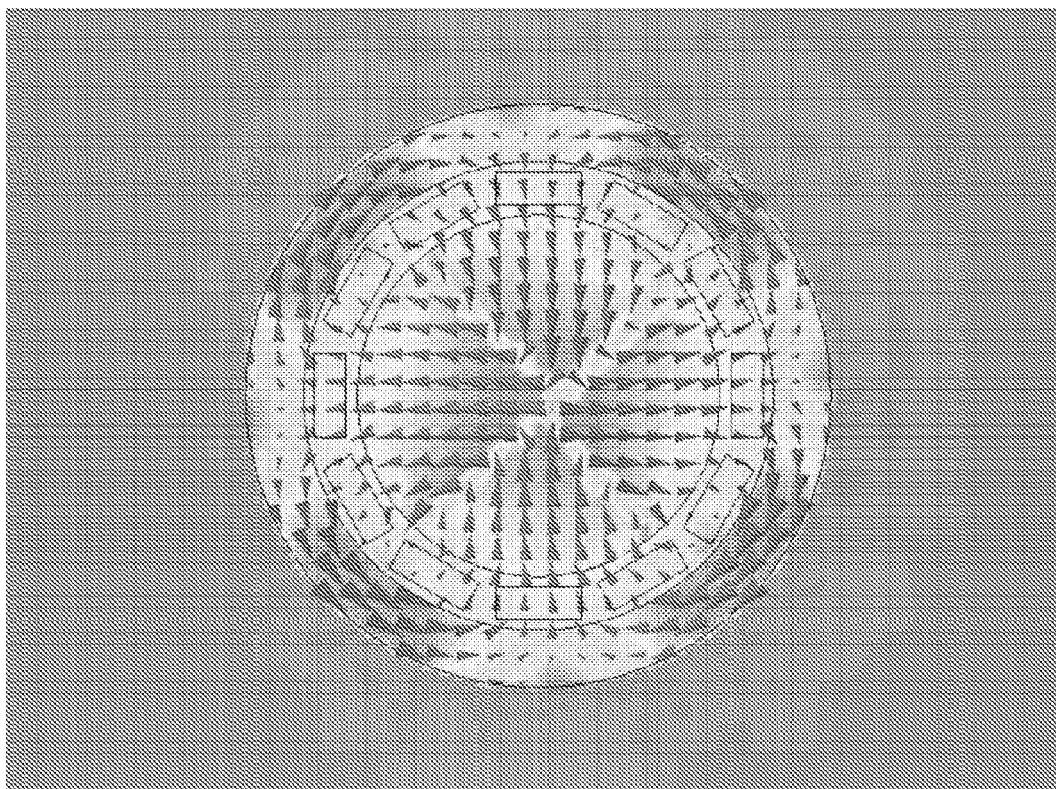


Figure 121

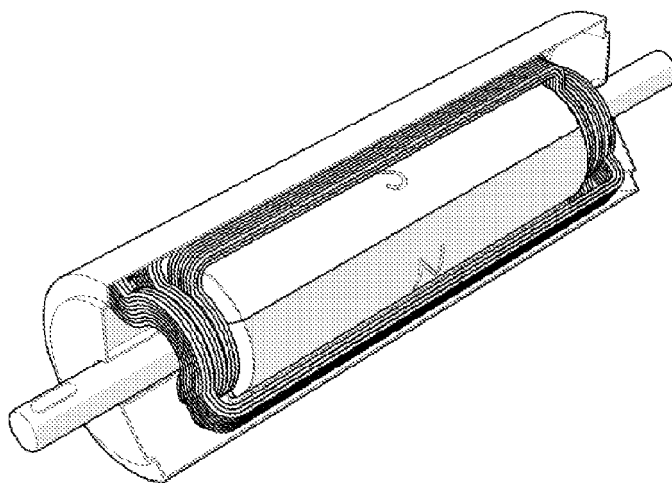


Figure 122

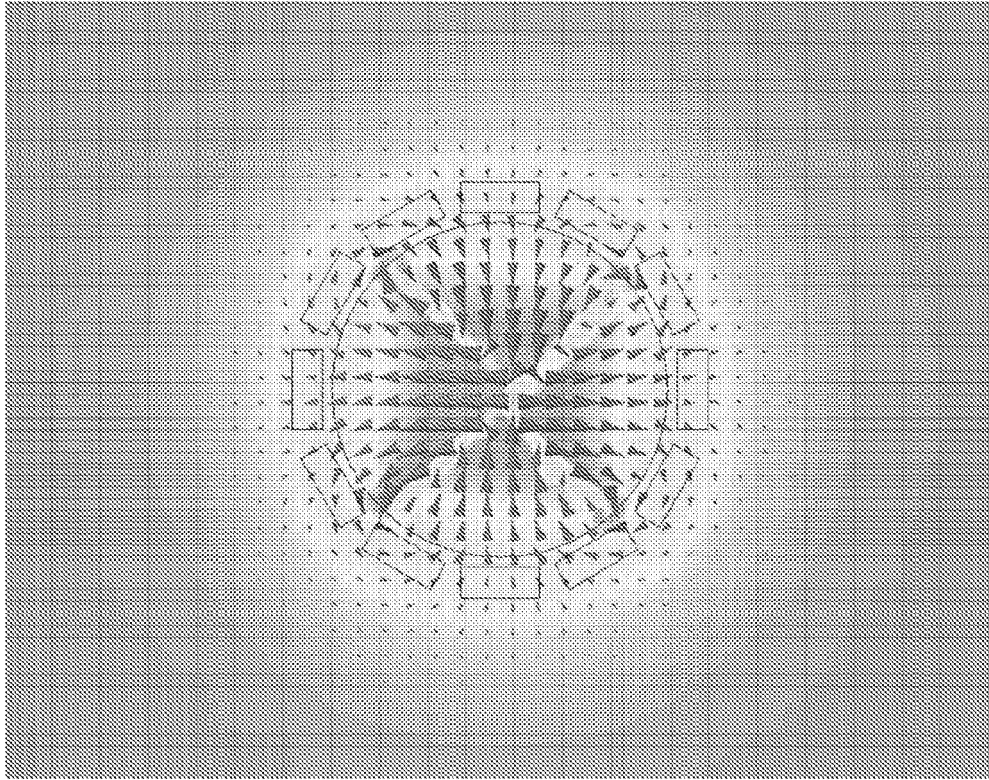


Figure 123

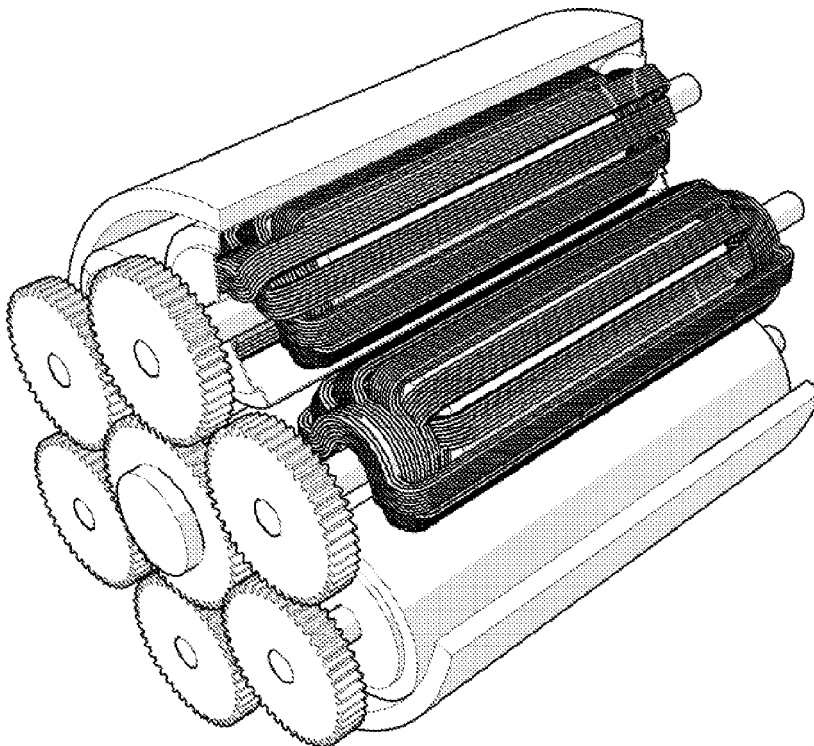


Figure 124

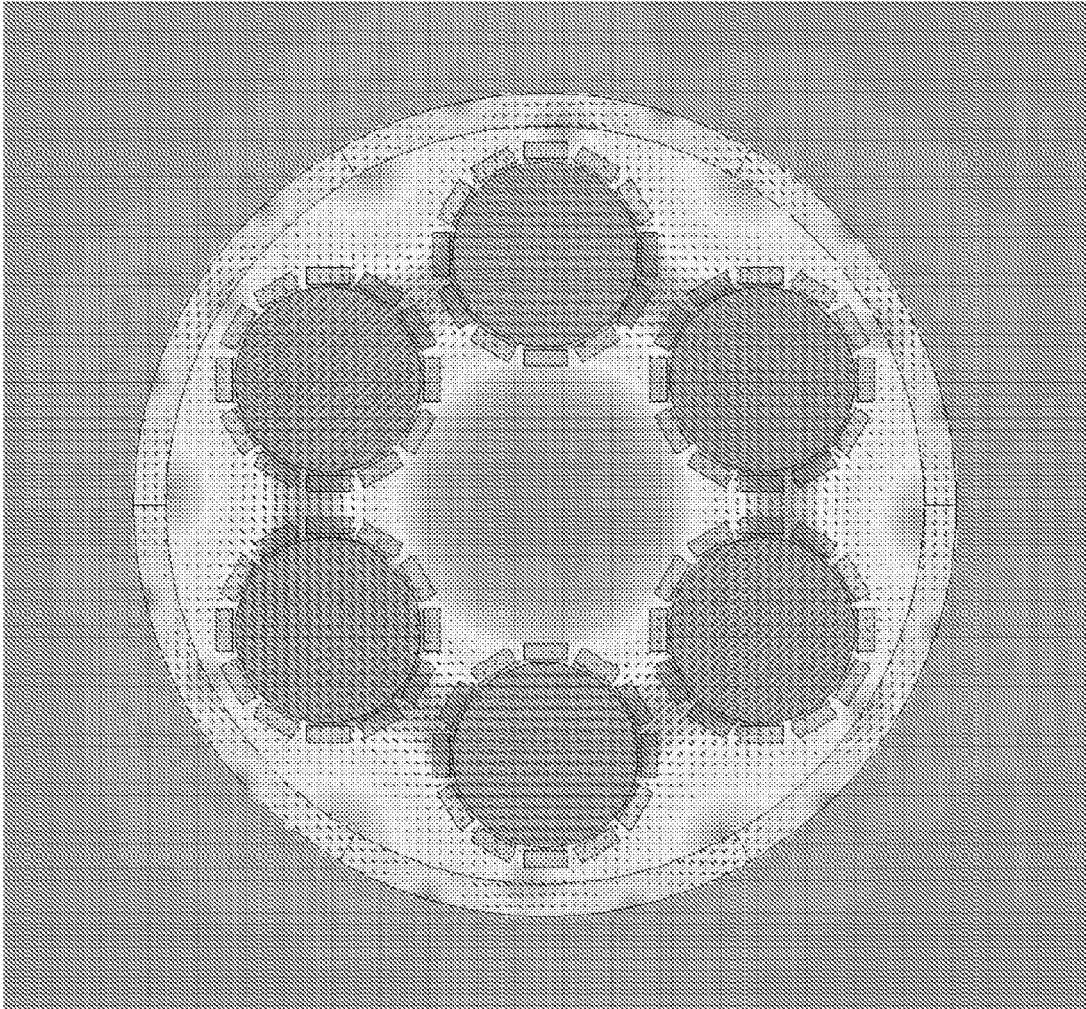


Figure 125

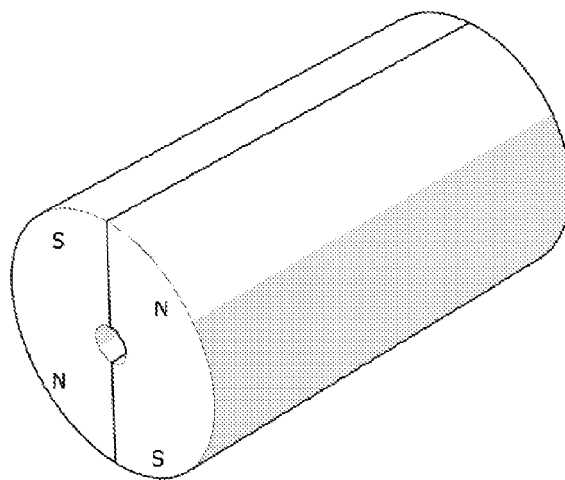


Figure 126

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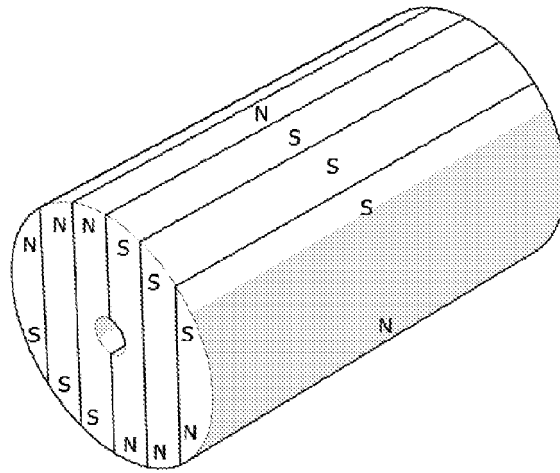


Figure 127

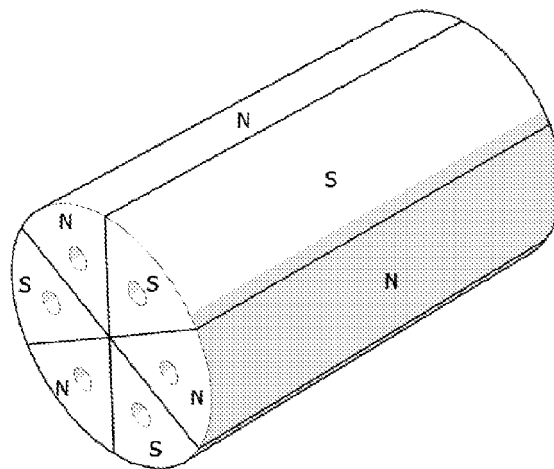


Figure 128

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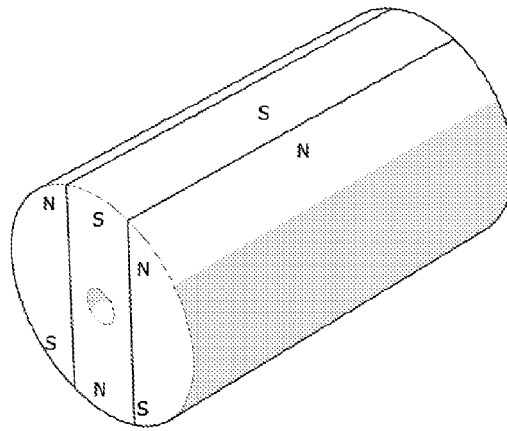


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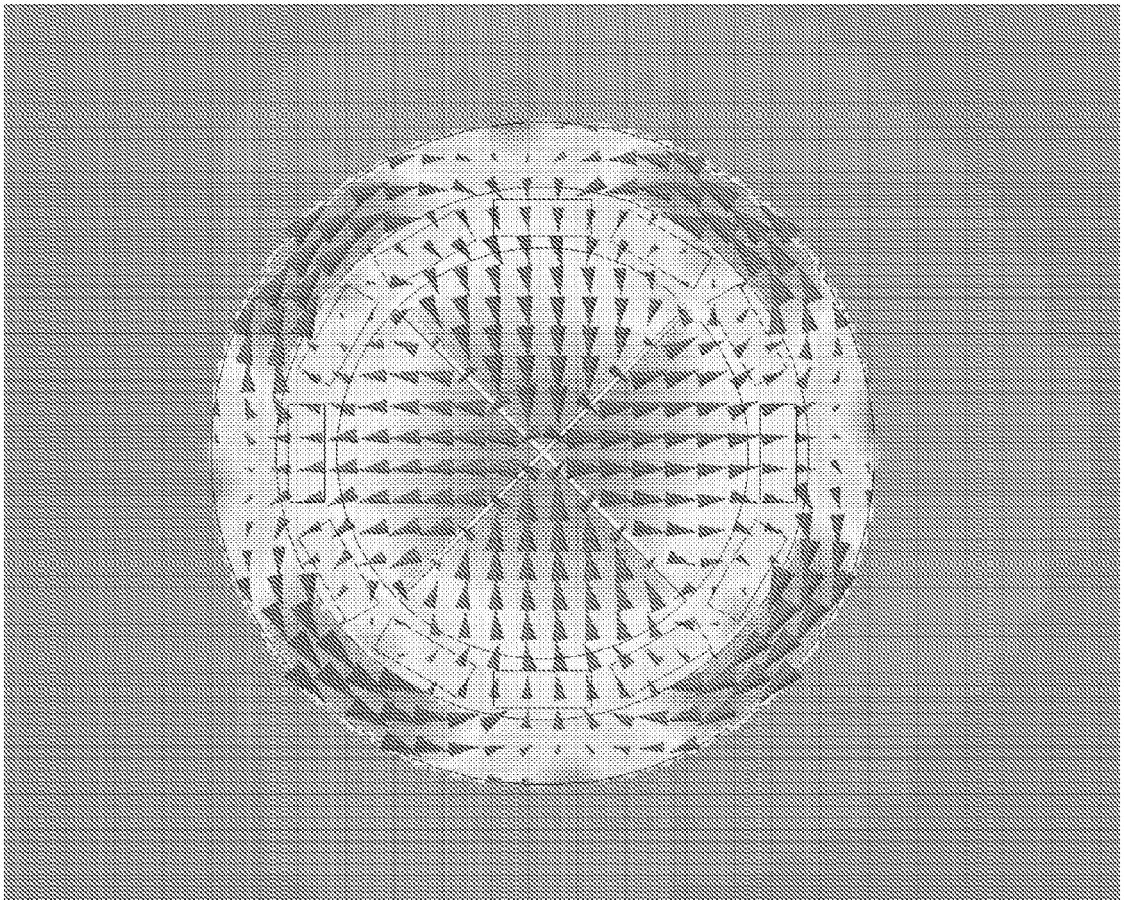


Figure 130

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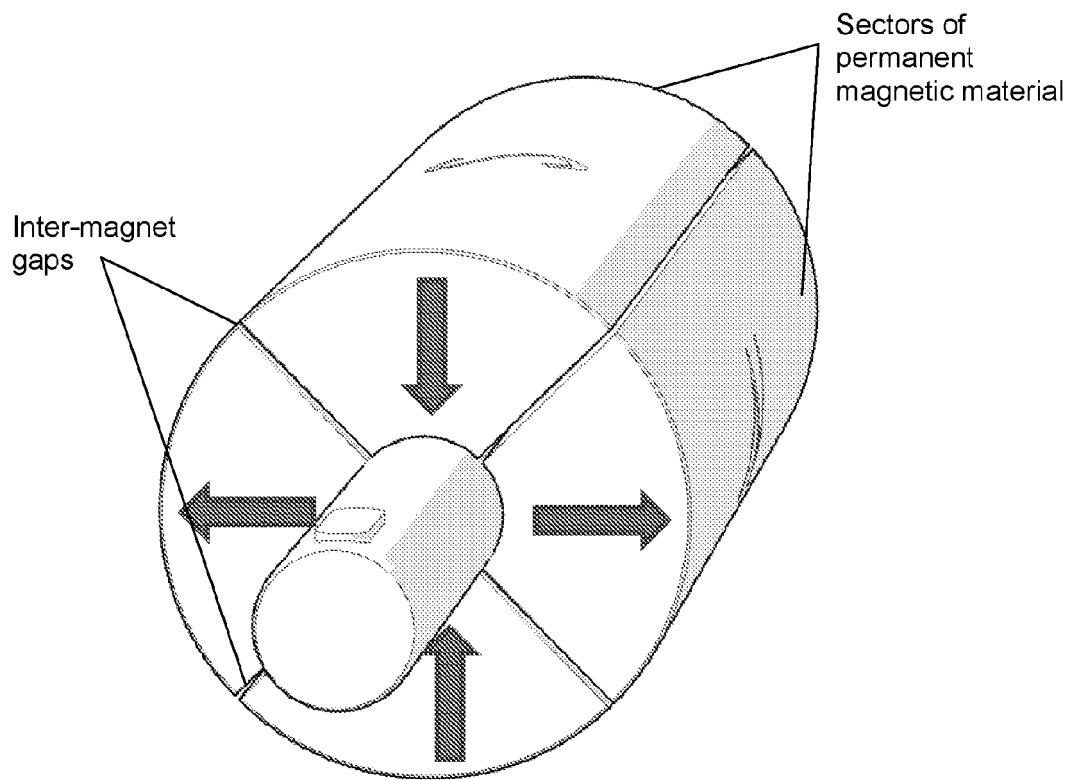


Figure 131

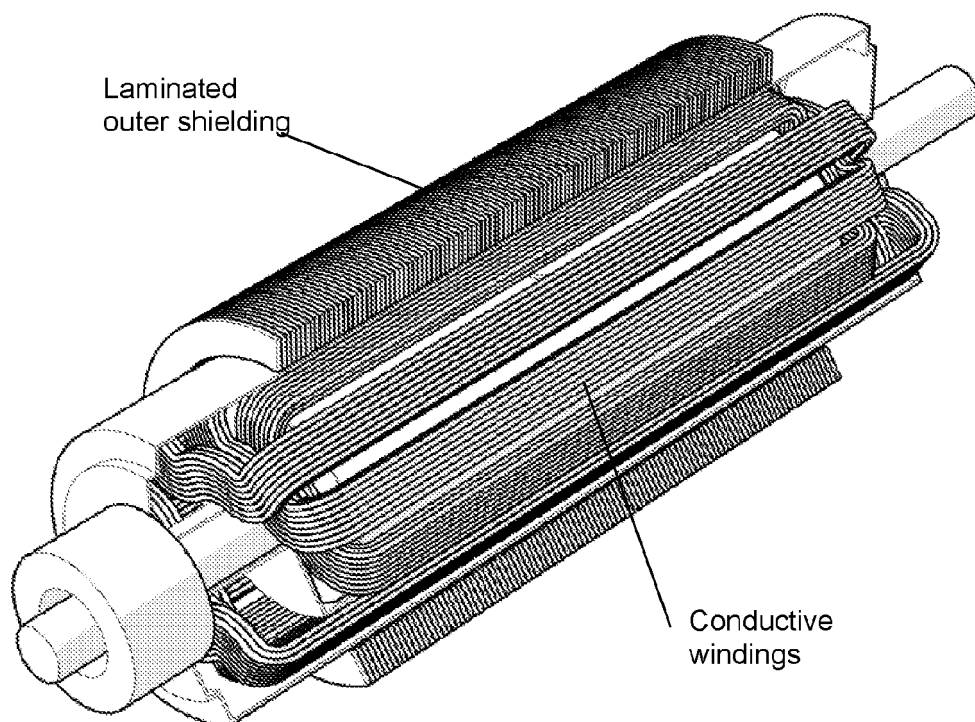


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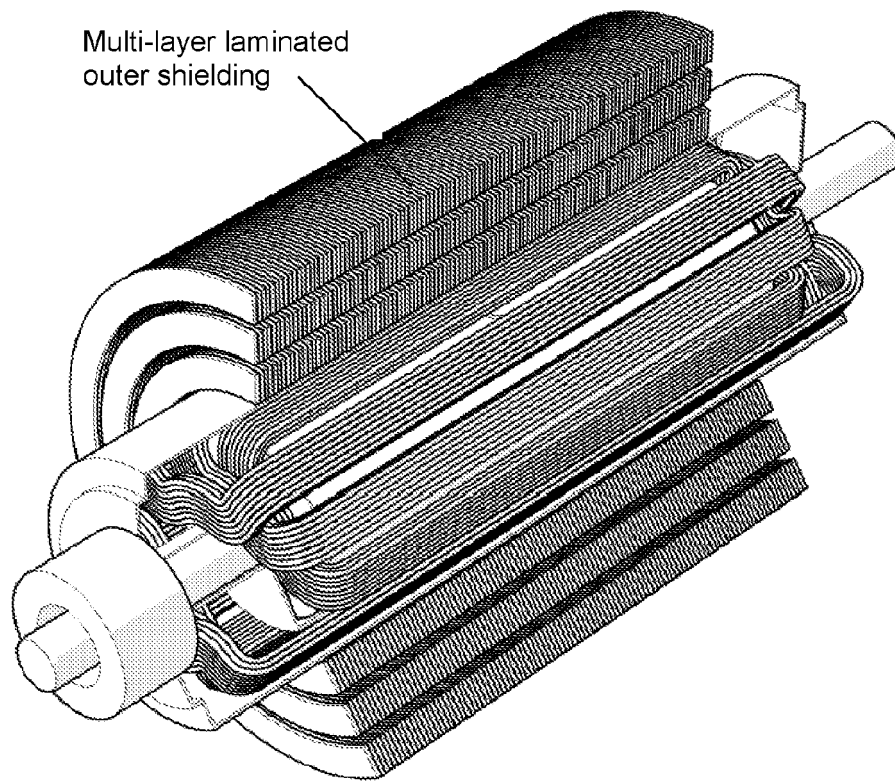


Figure 133

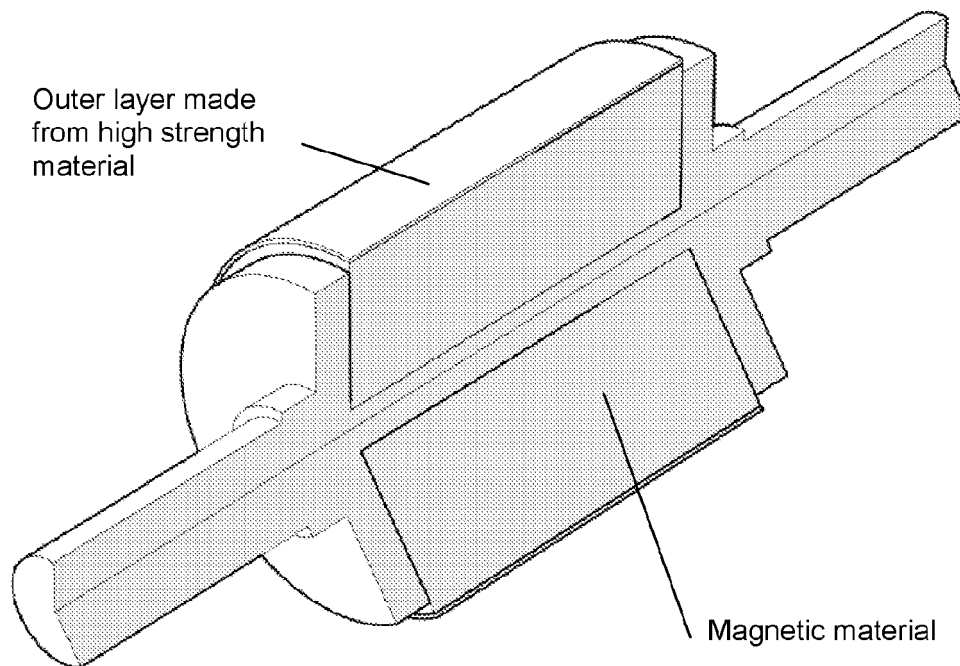


Figure 134

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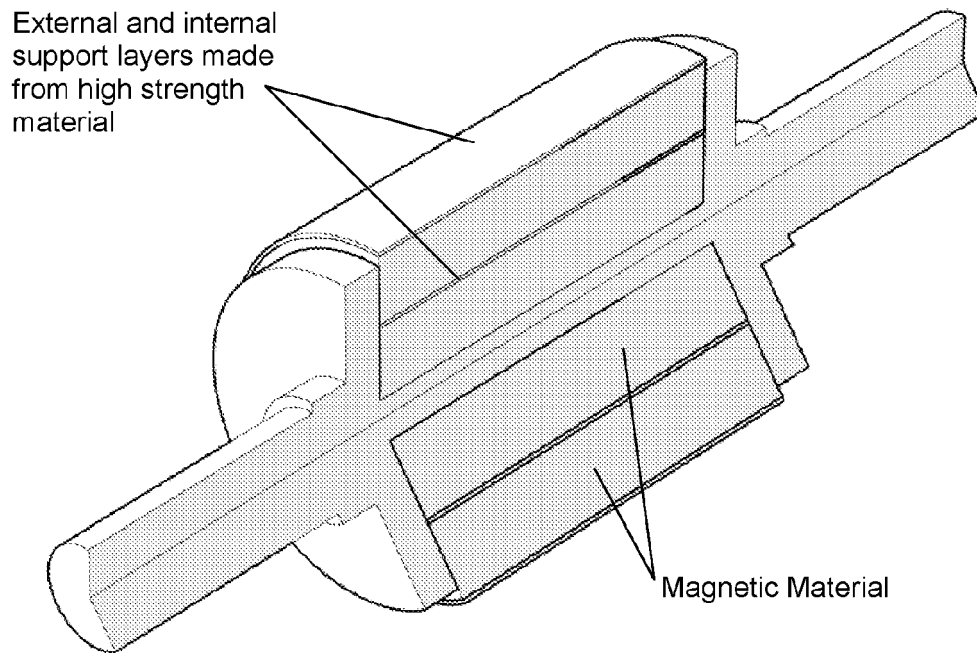


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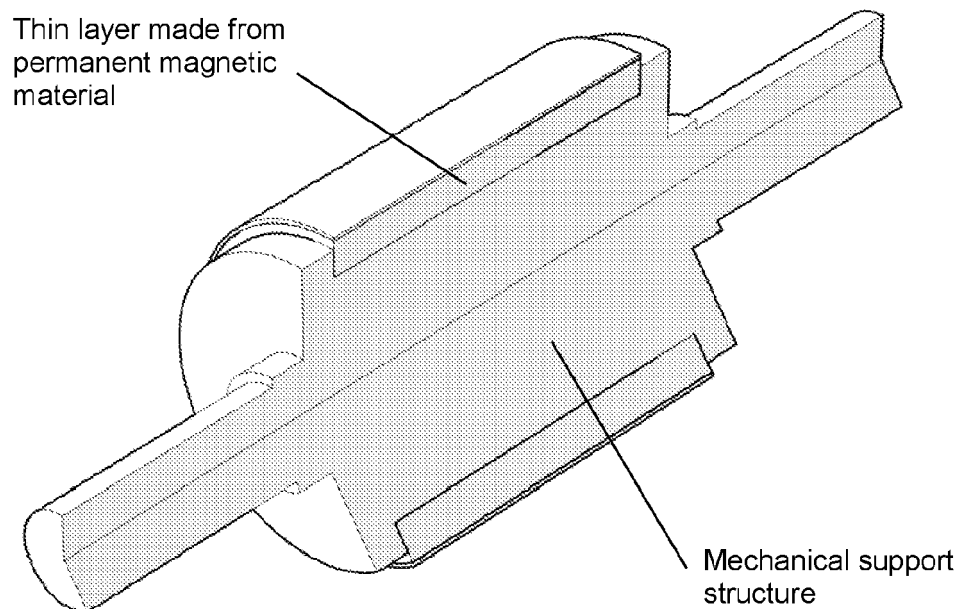


Figure 136

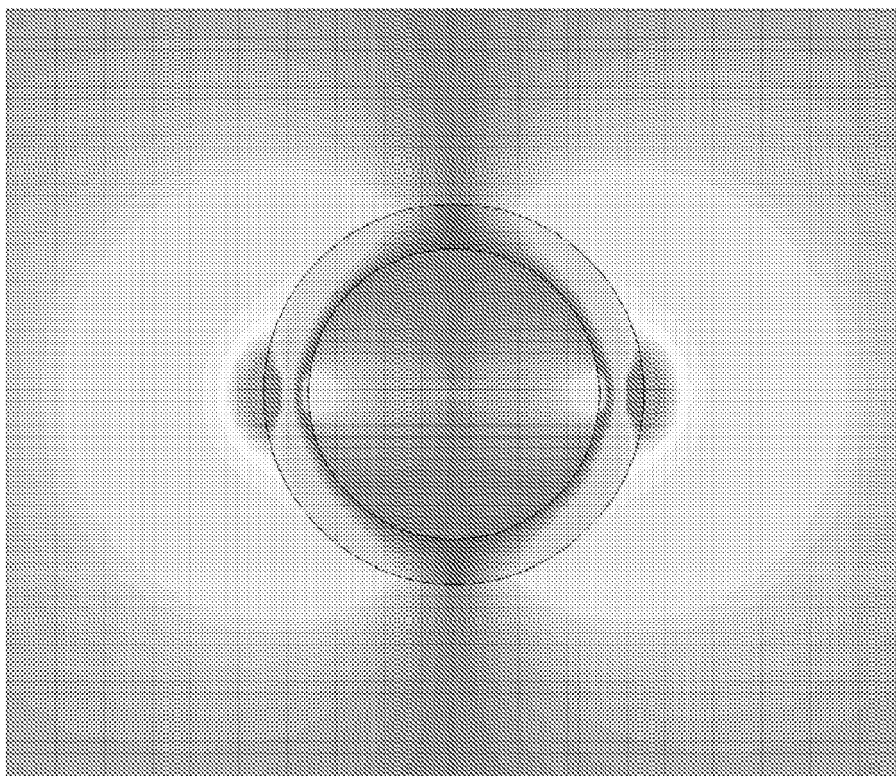


Figure 137

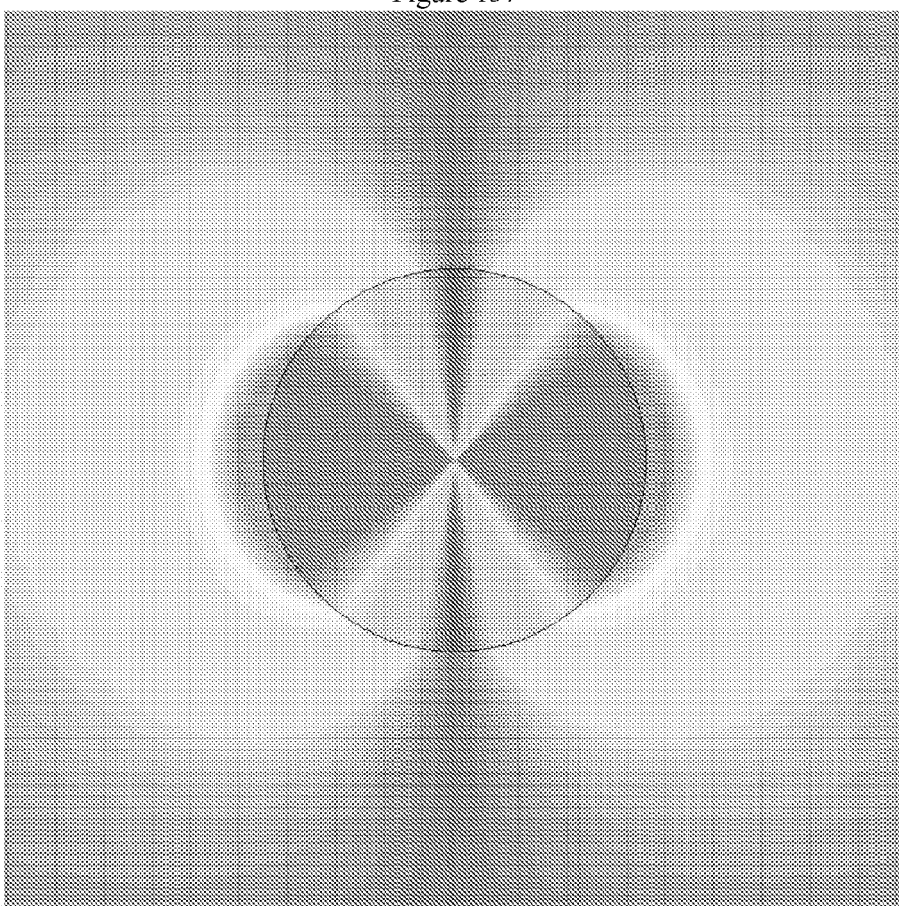


Figure 138

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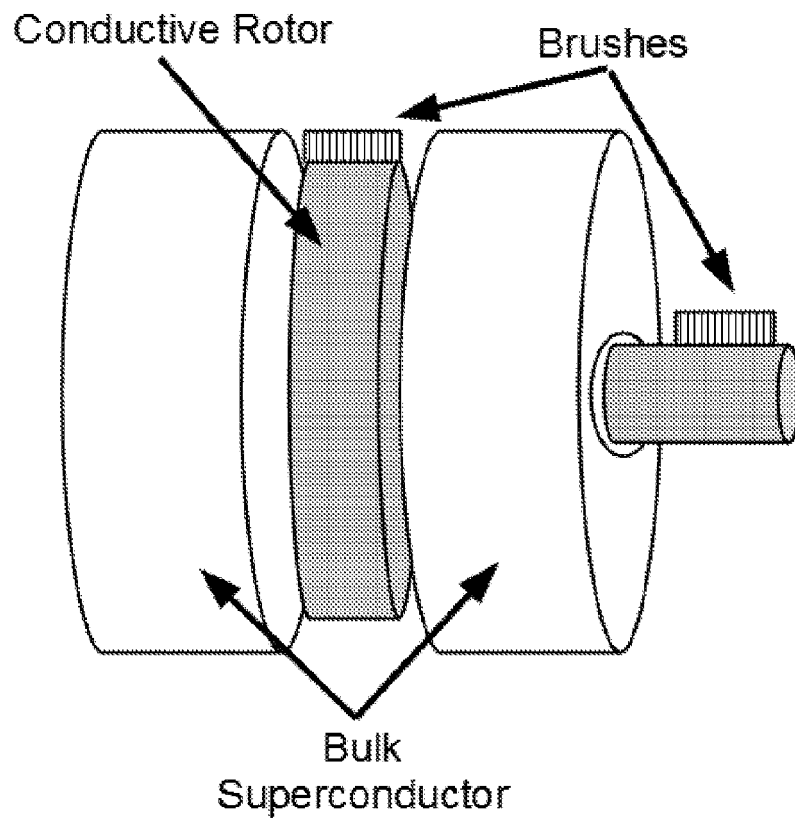


Figure 139

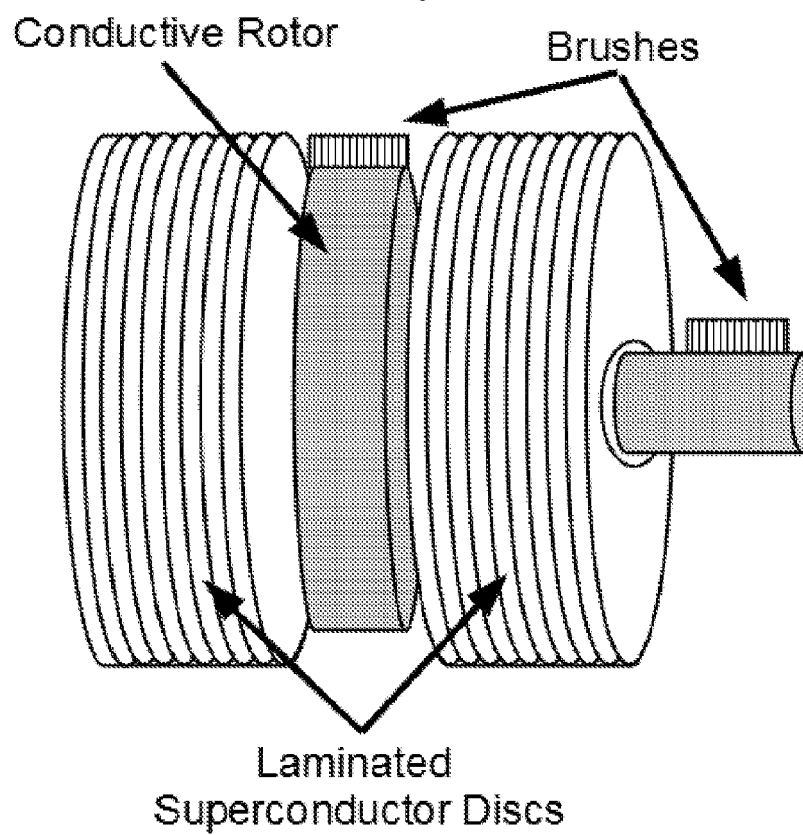


Figure 140

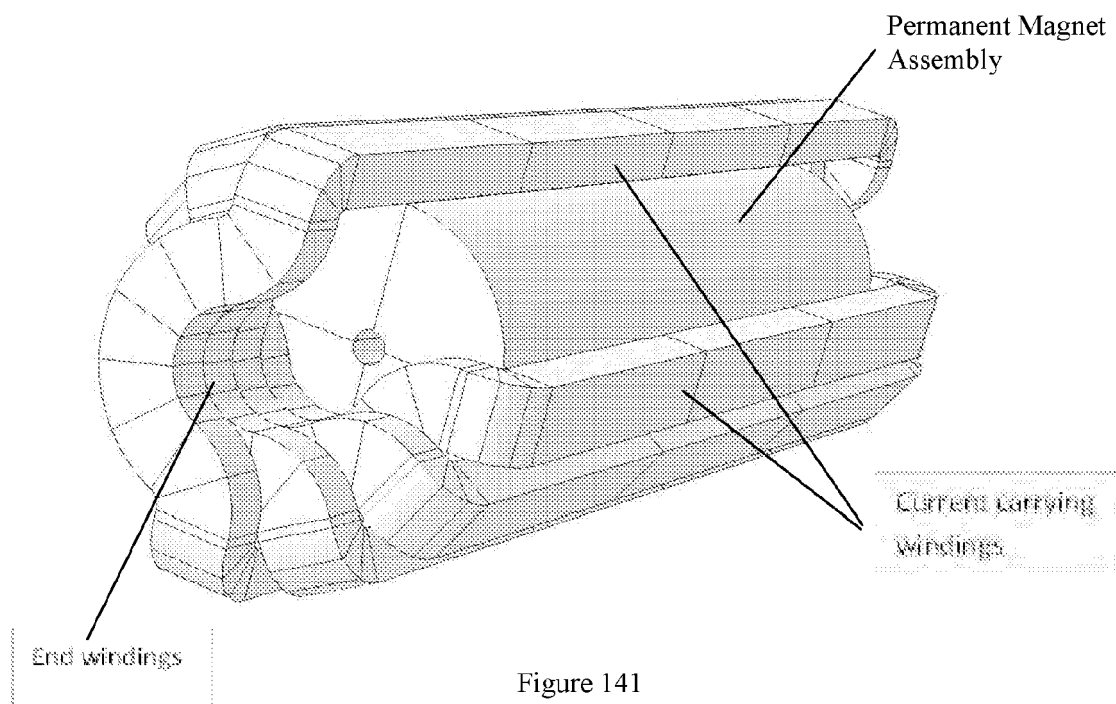


Figure 141

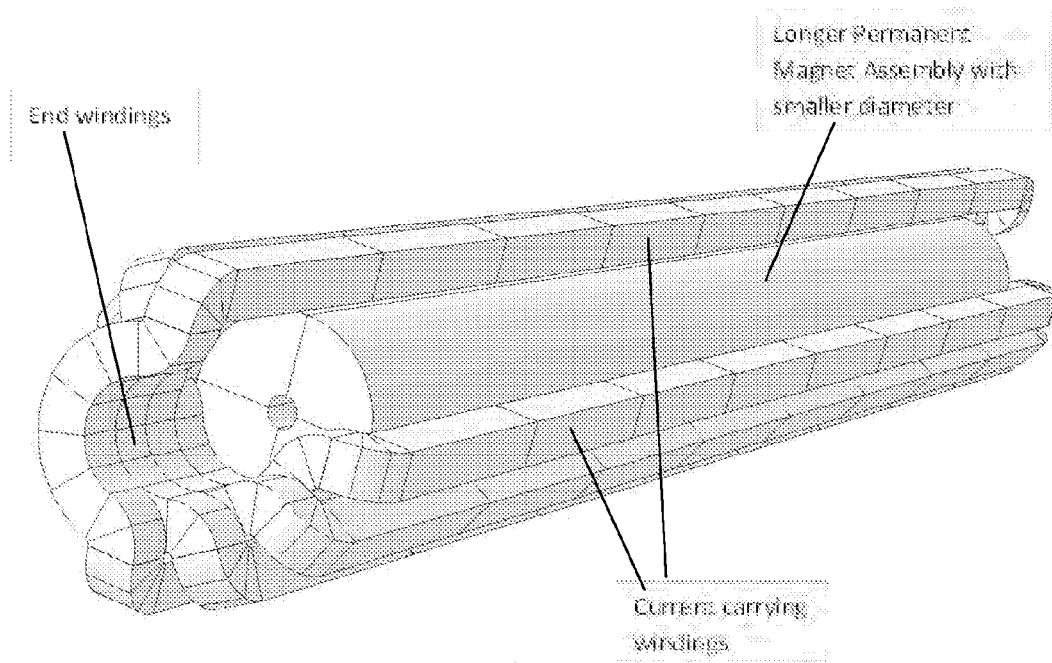


Figure 143

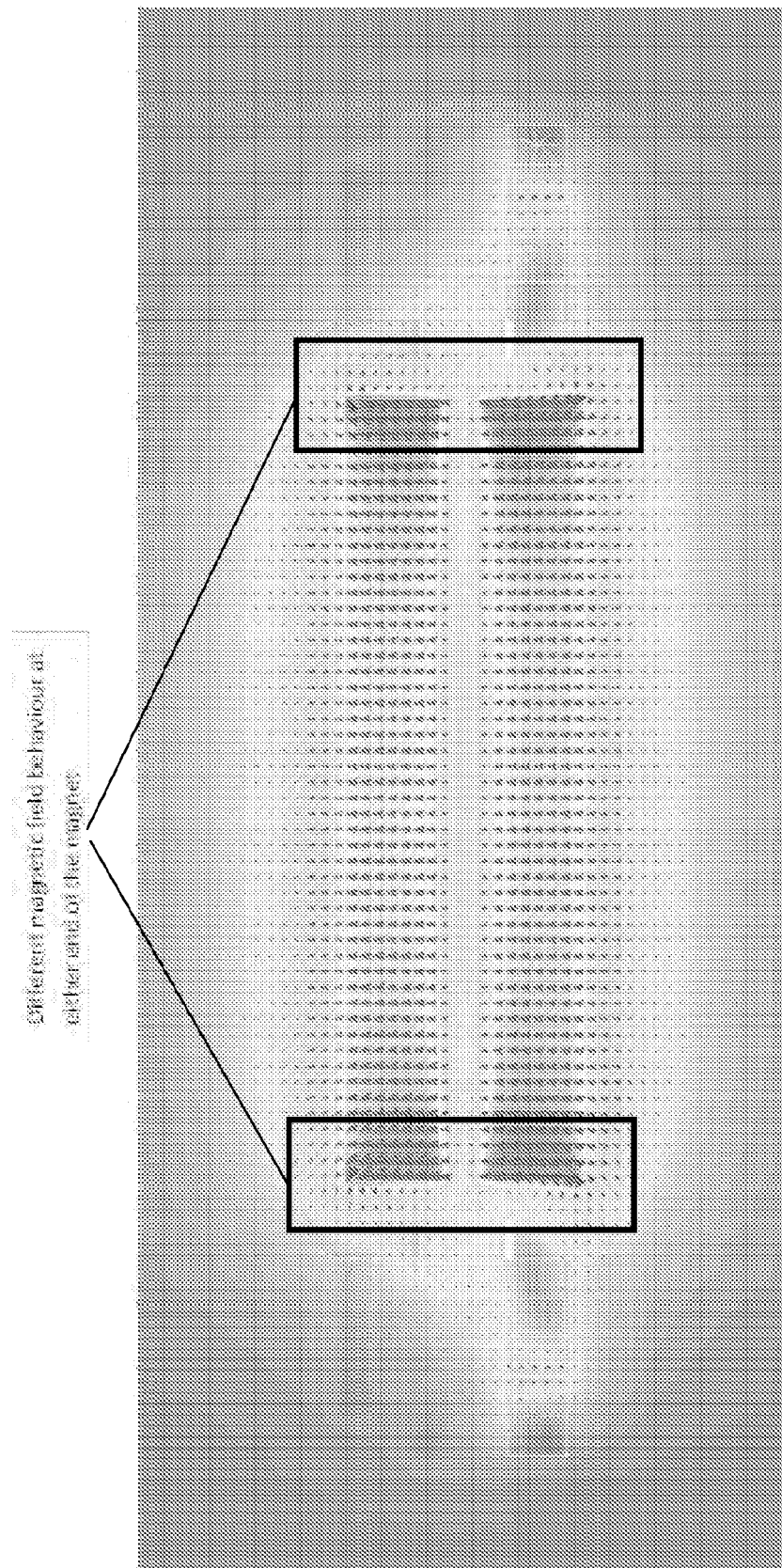


Figure 142

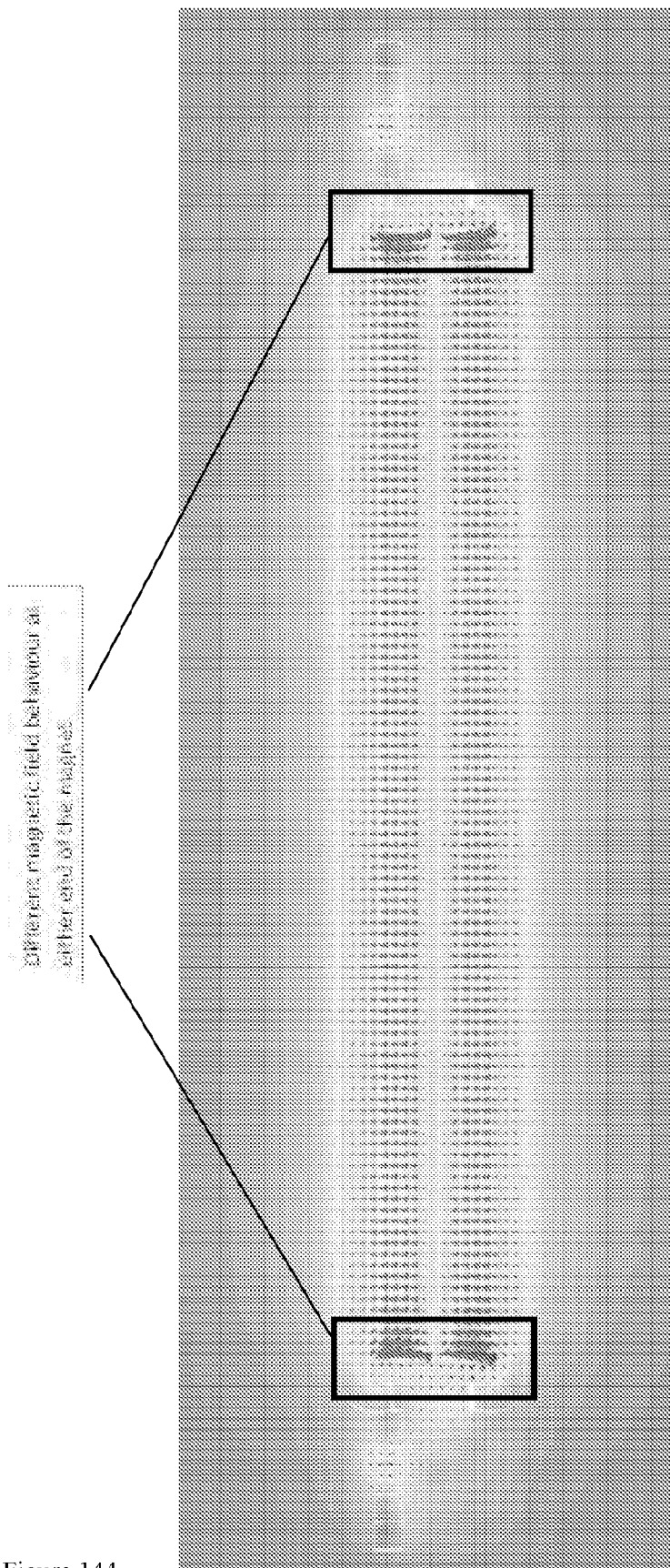


Figure 144

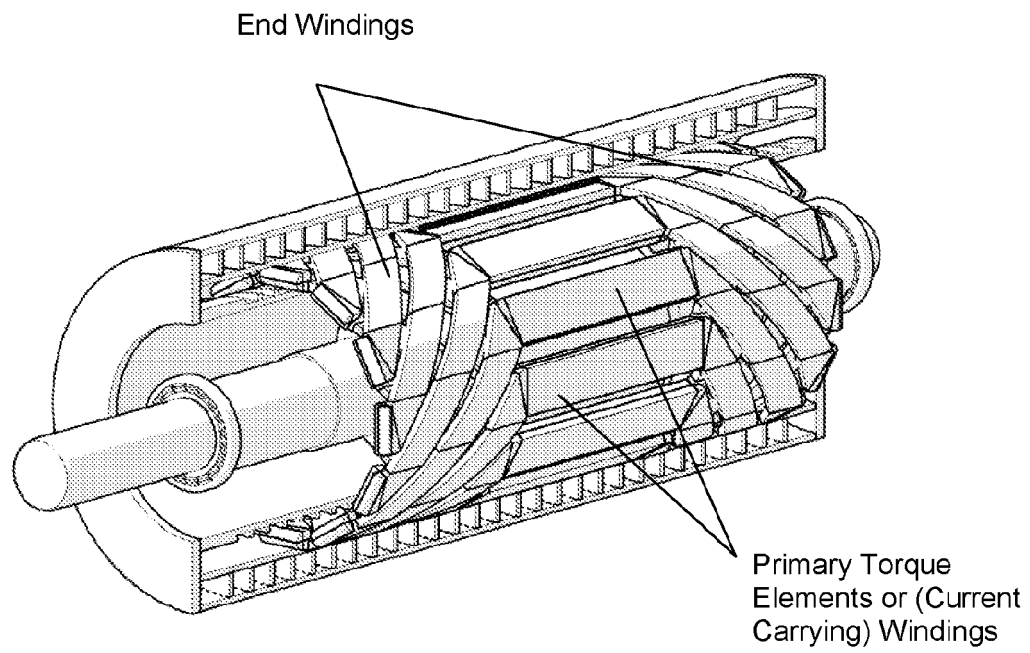


Figure 145

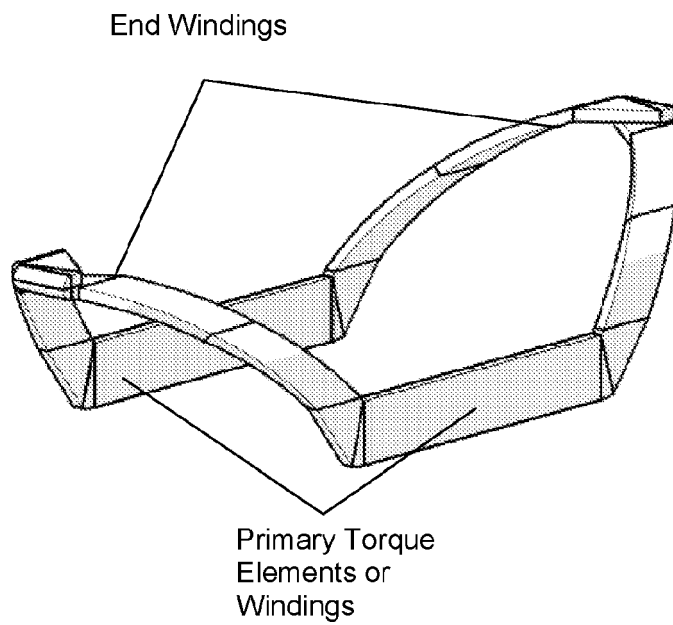


Figure 146

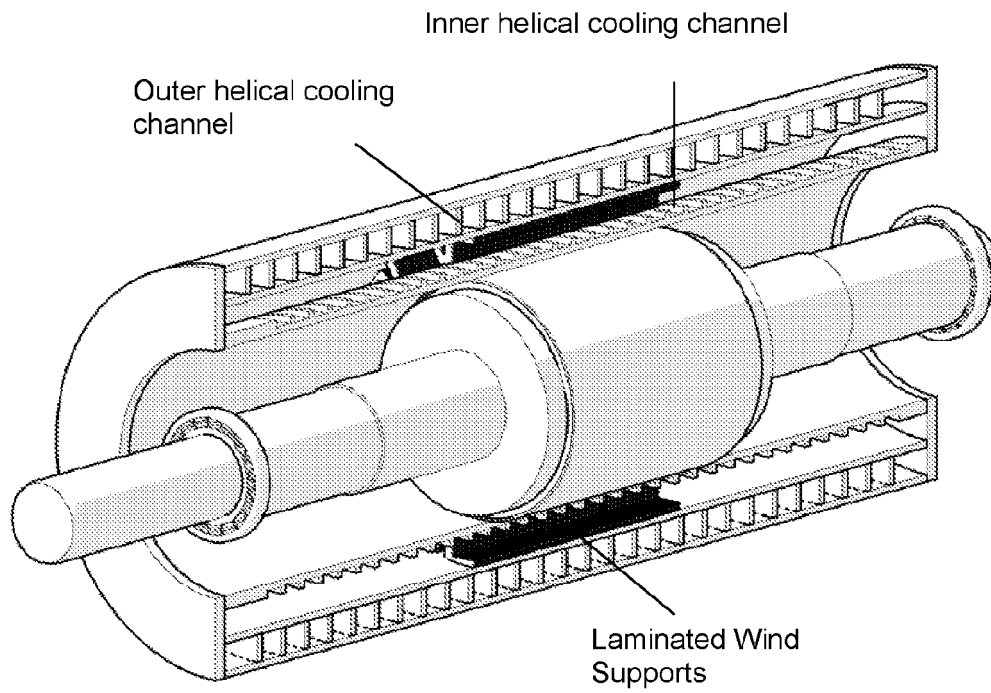


Figure 147

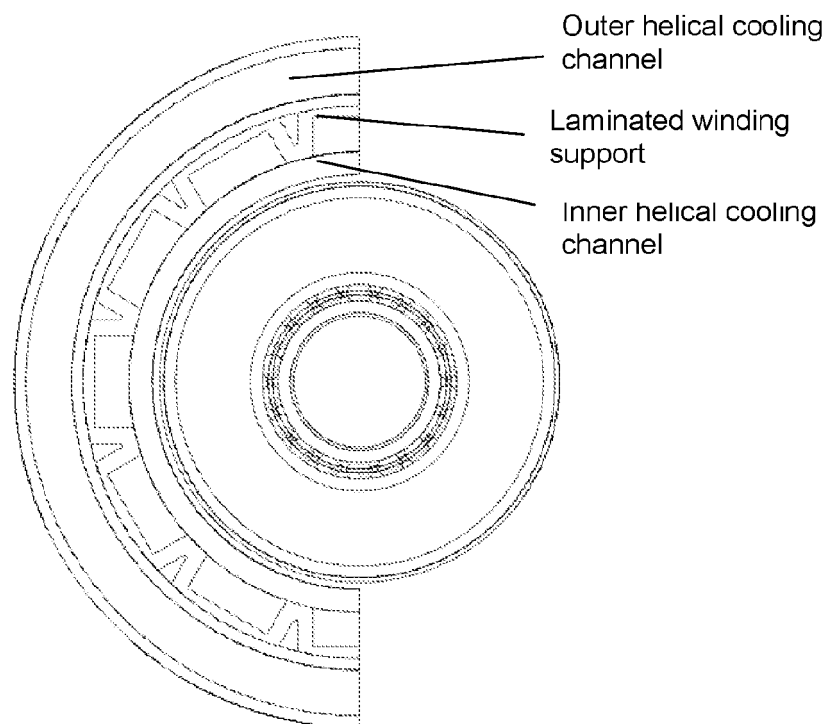


Figure 148

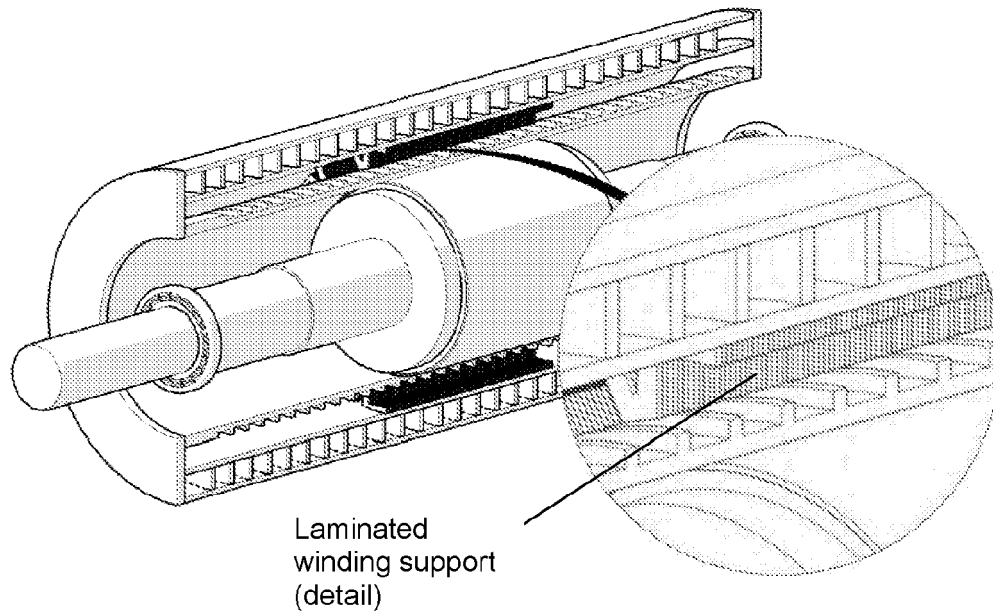


Figure 149

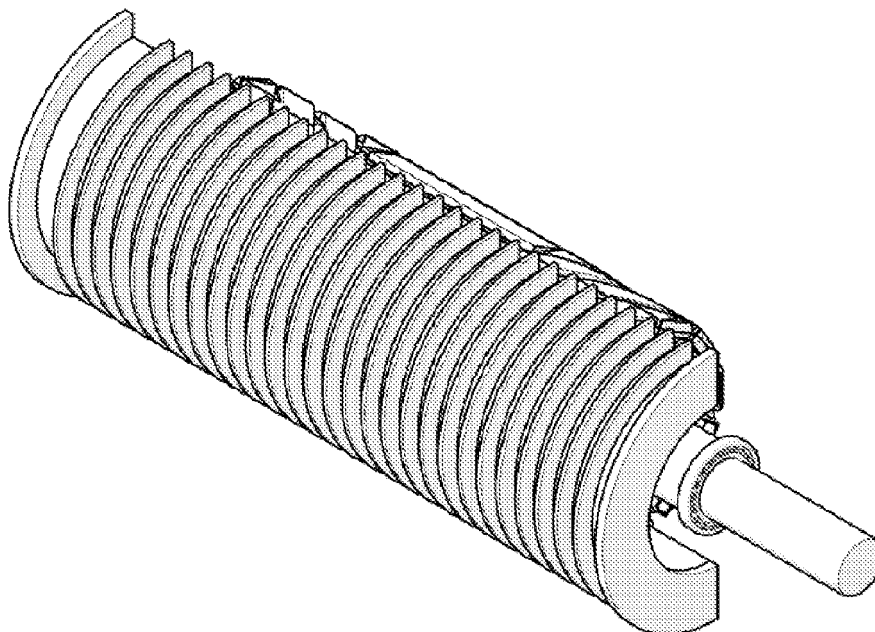


Figure 150

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Laminated outer support
structure incorporating
multiple cooling channels

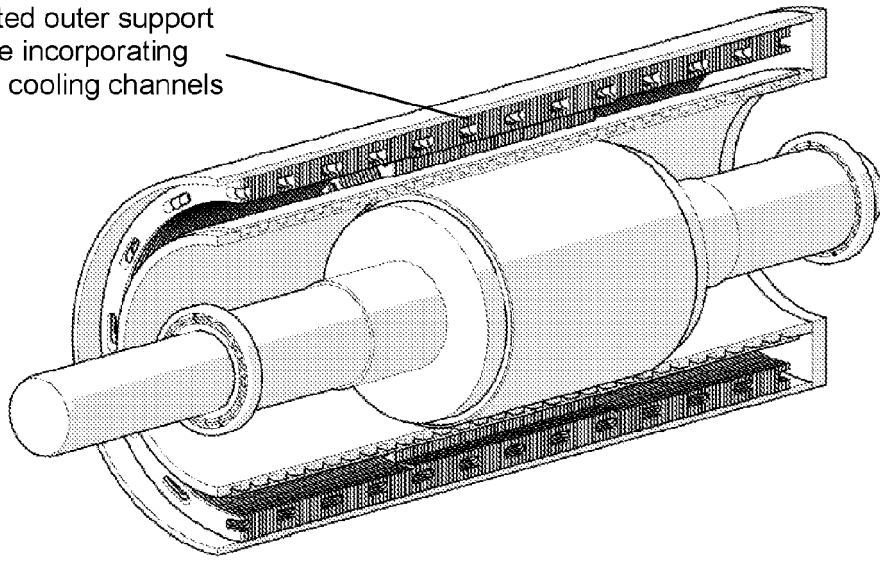


Figure 151

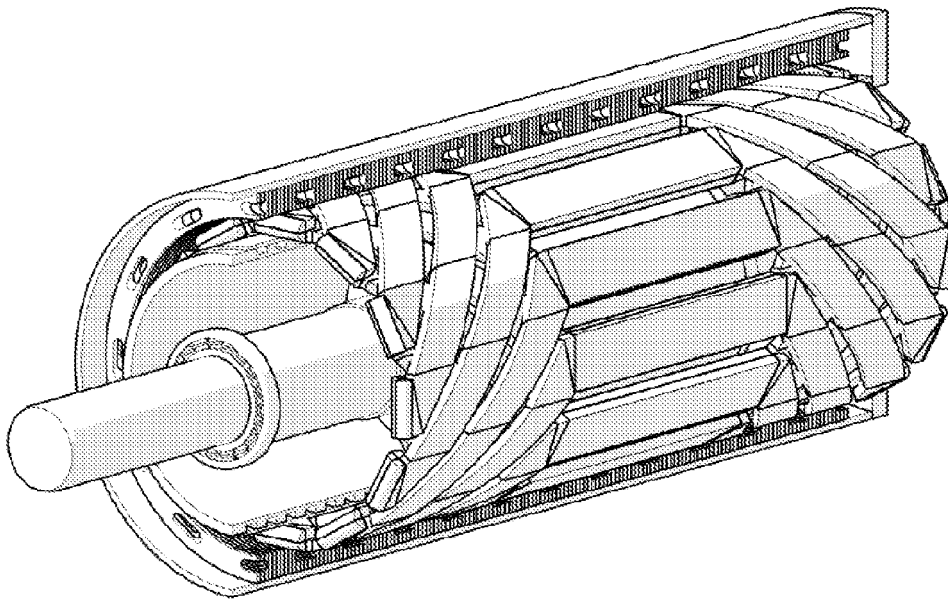


Figure 152

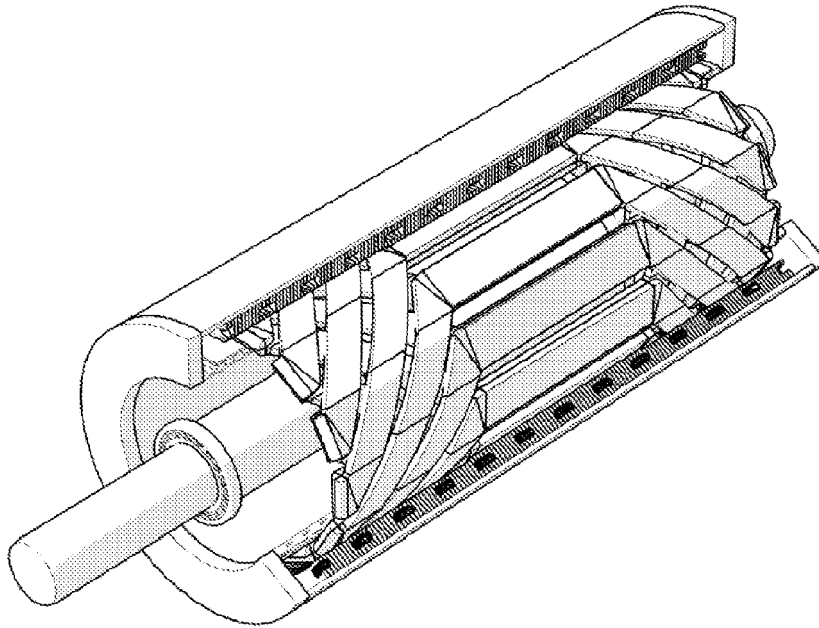


Figure 153

Current carrying windings
divided into 12 Phases

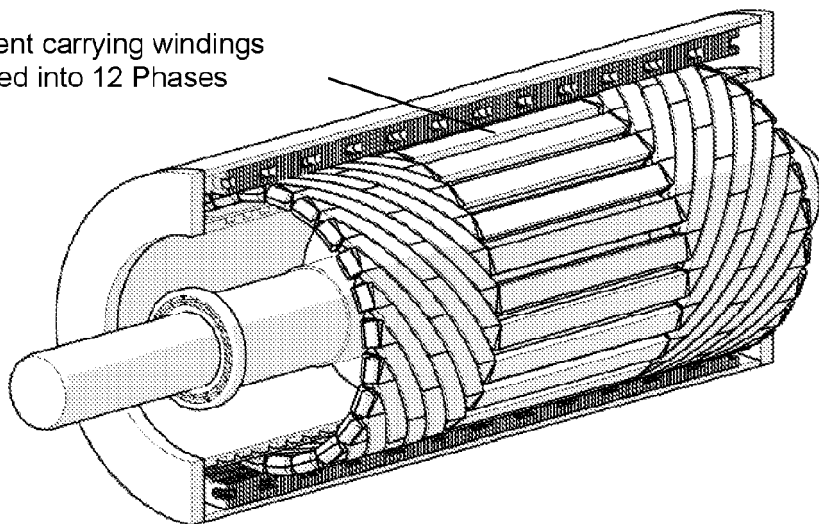


Figure 154

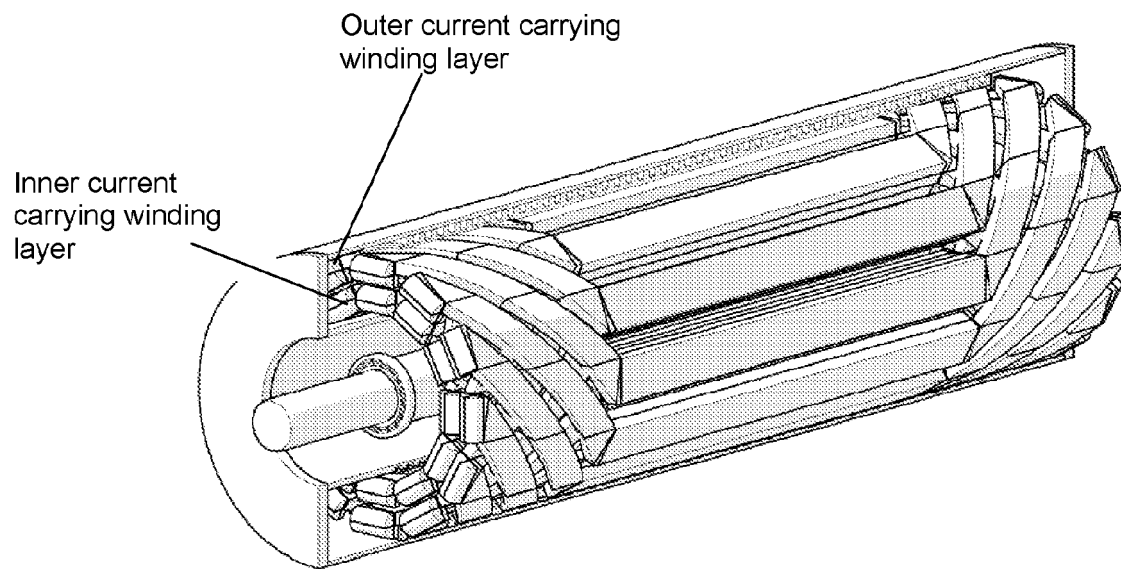


Figure 155

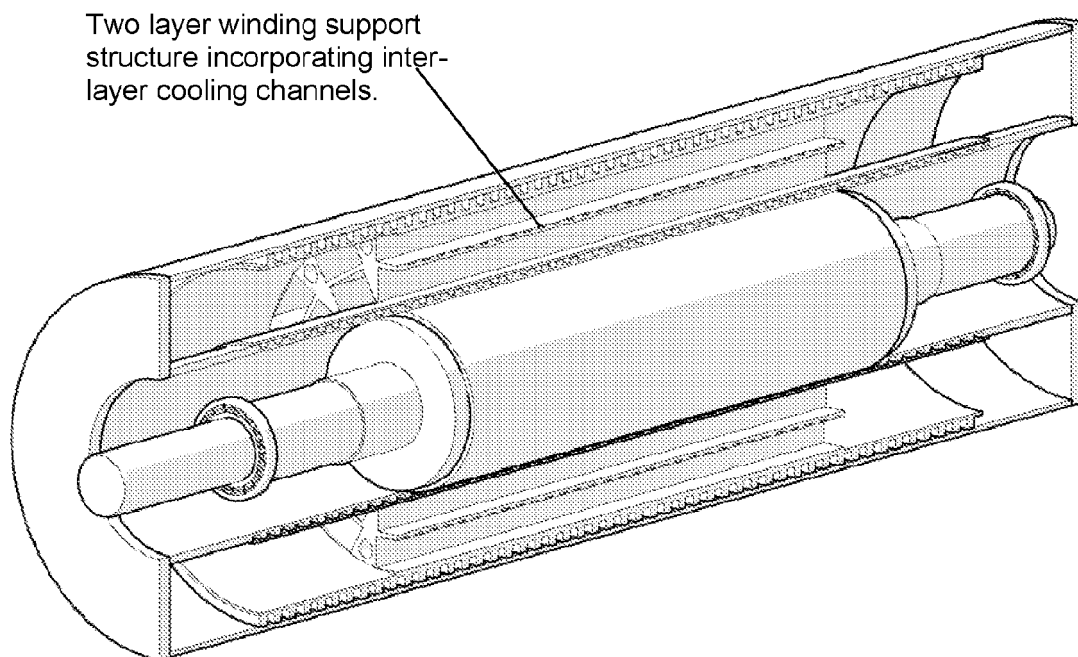


Figure 156

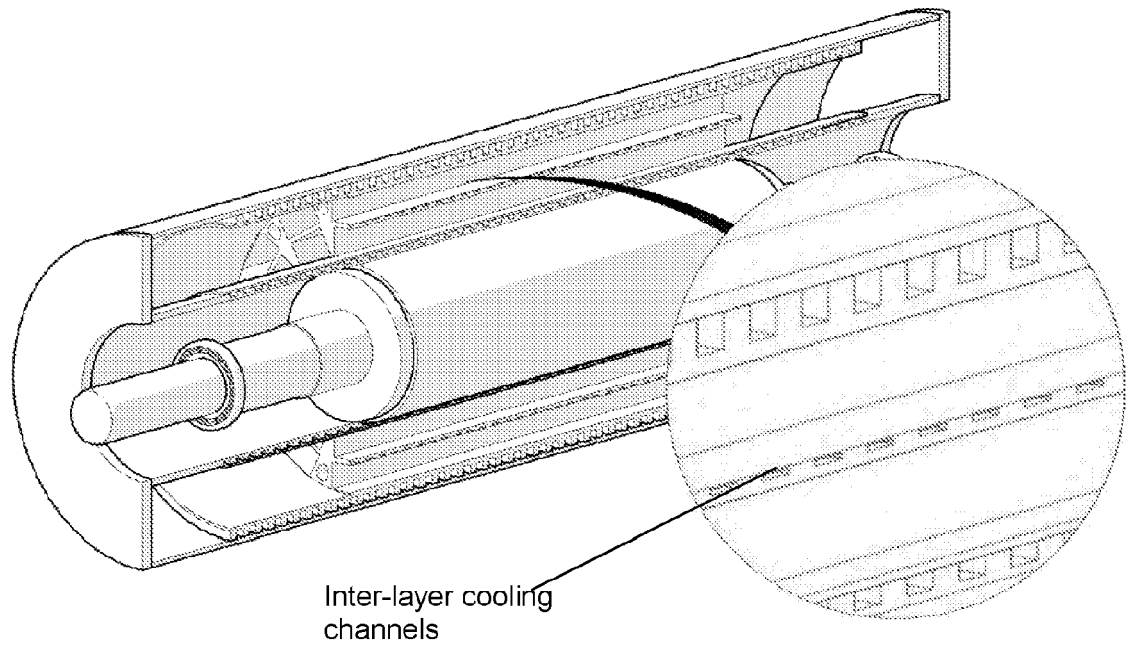


Figure 157

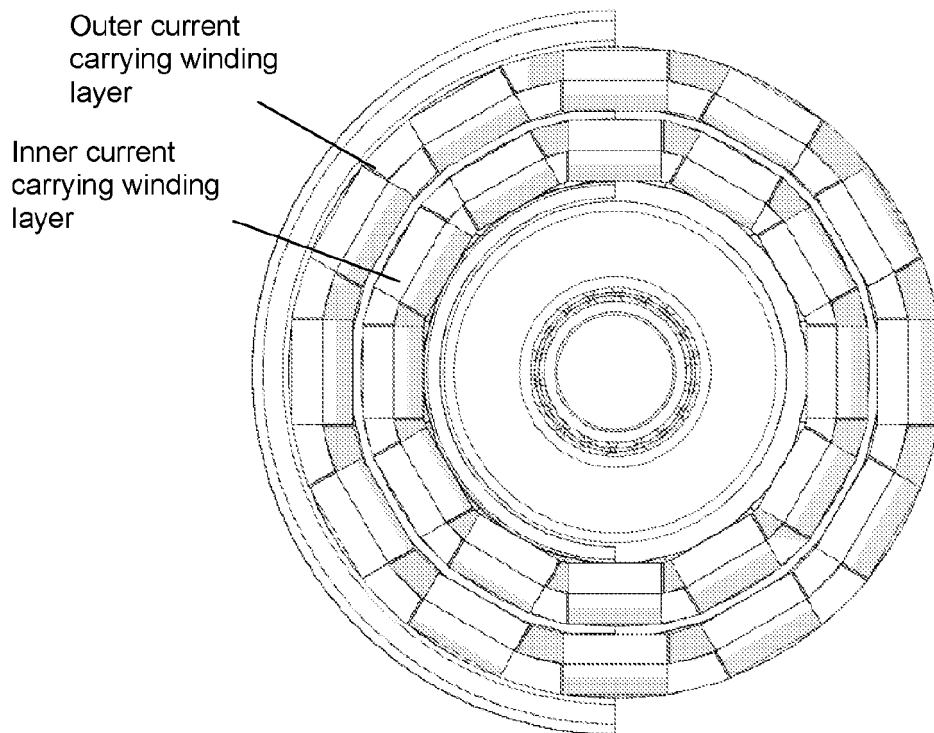


Figure 158

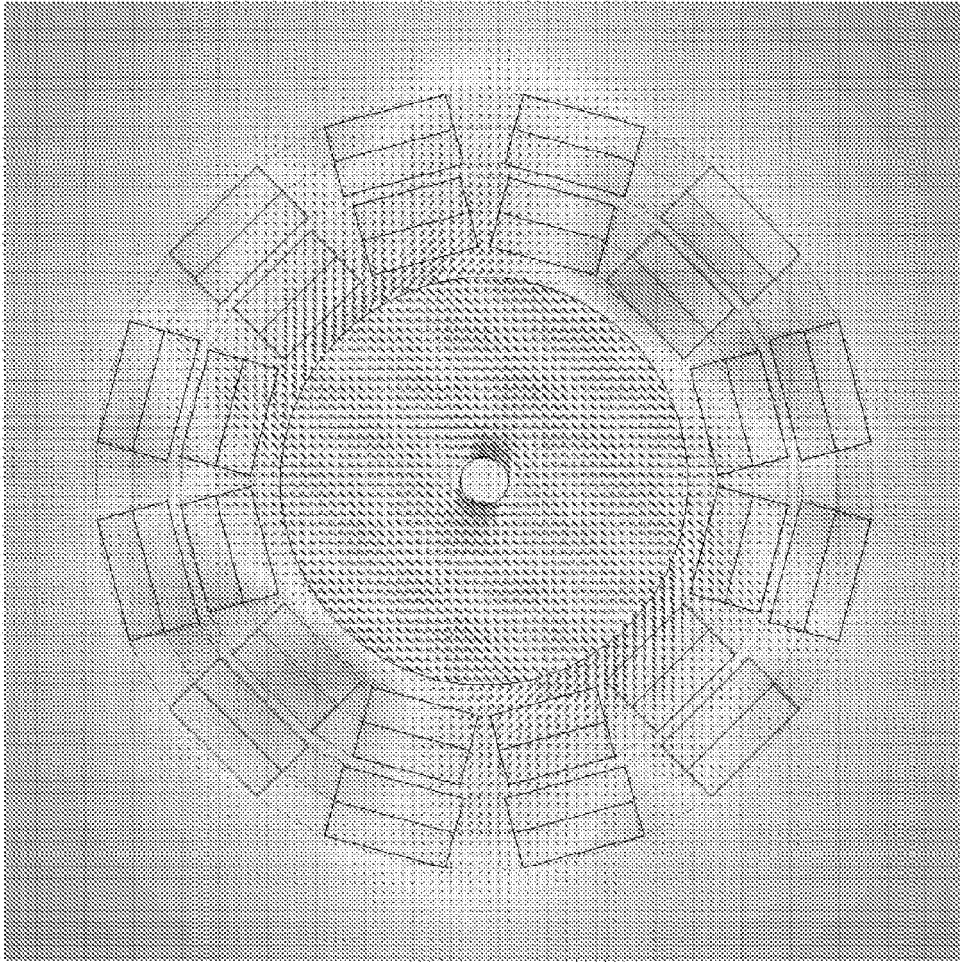


Figure 159

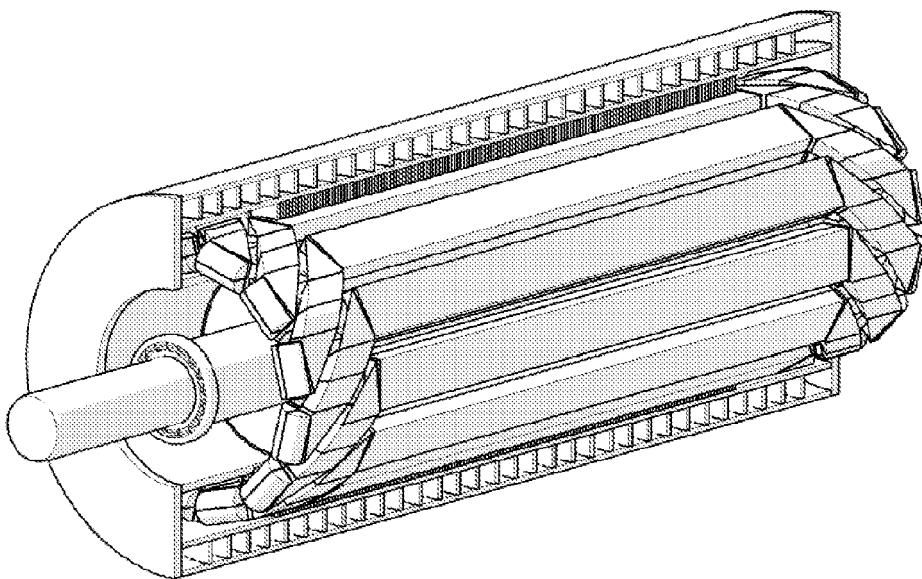


Figure 160

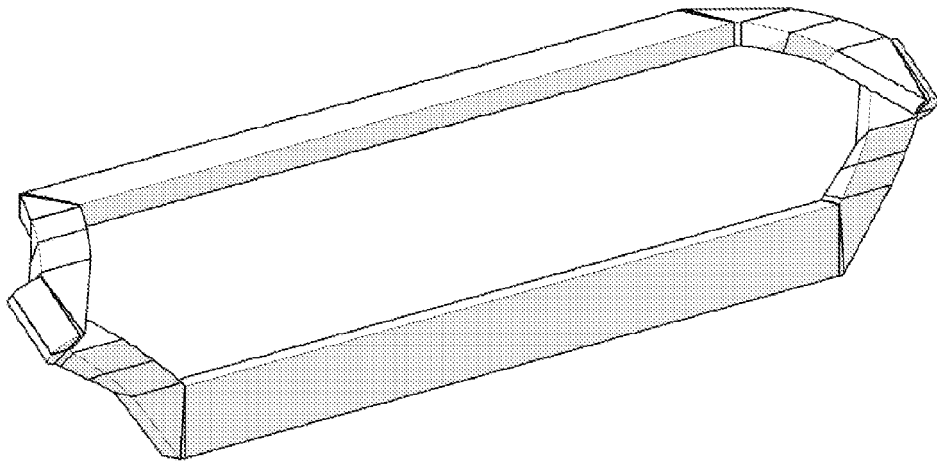


Figure 161

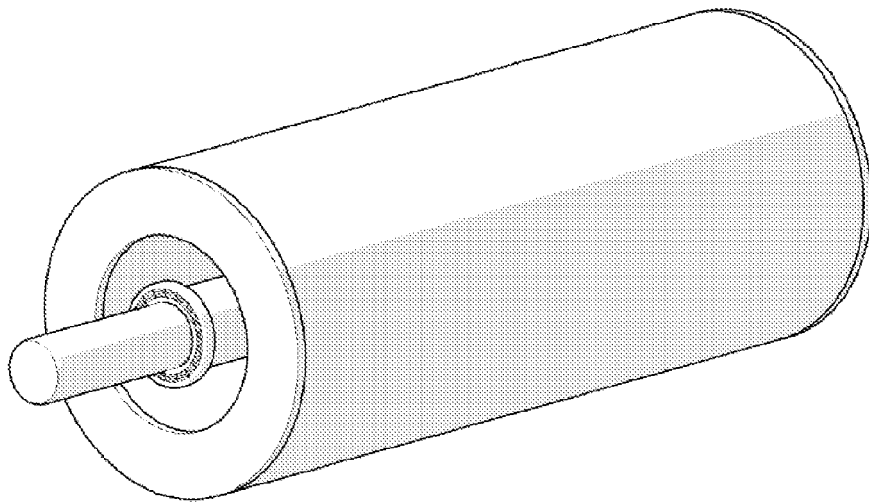


Figure 162

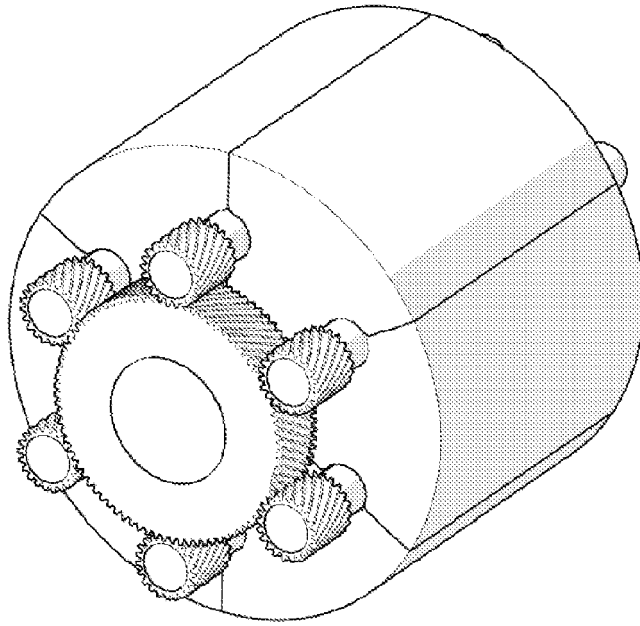


Figure 163

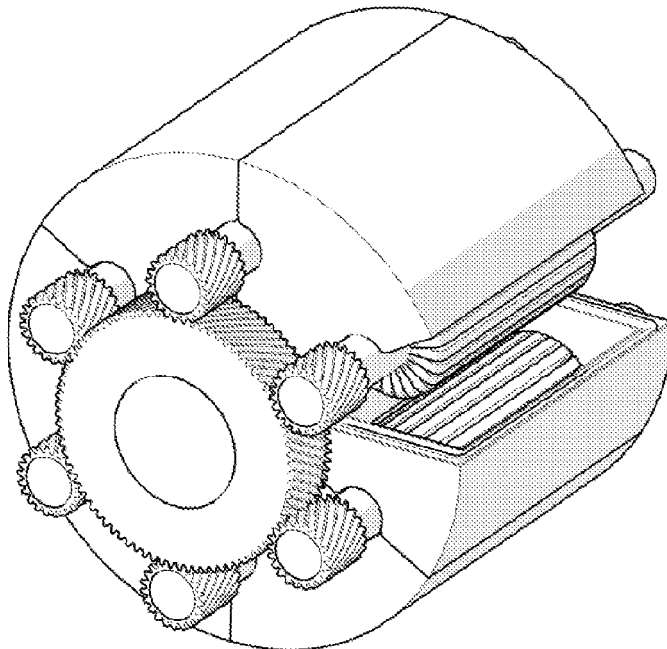


Figure 164

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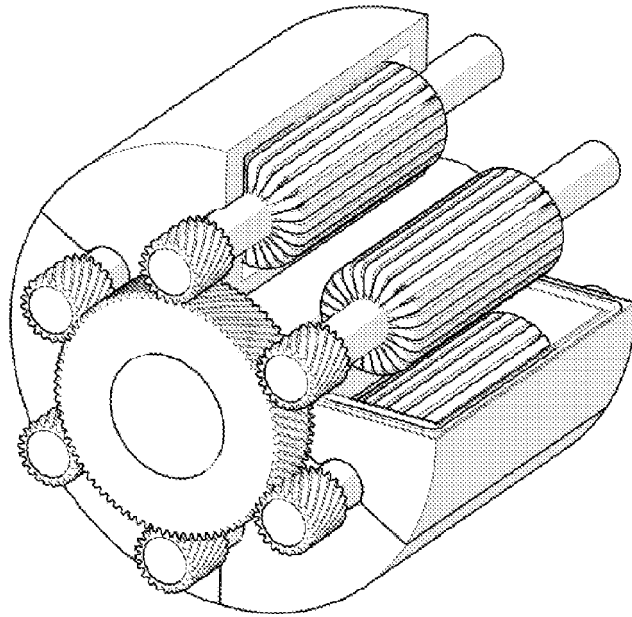


Figure 165

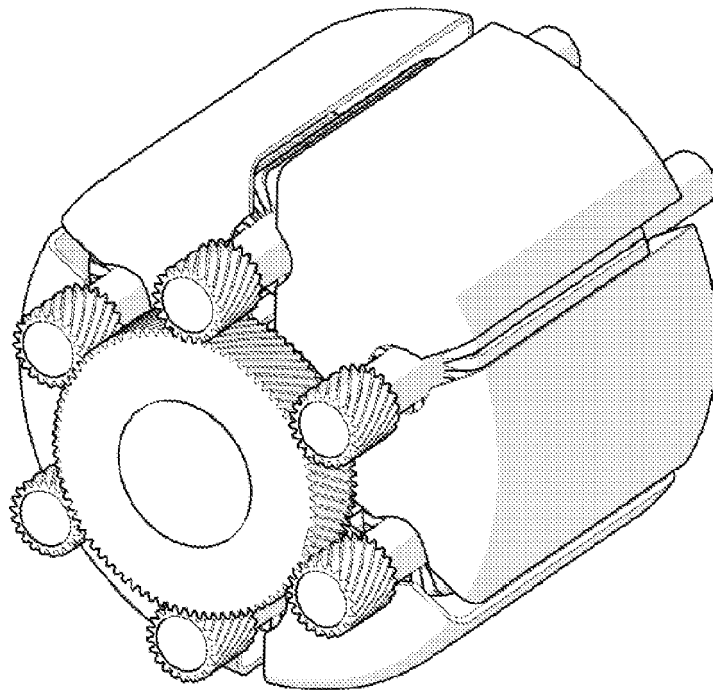


Figure 166

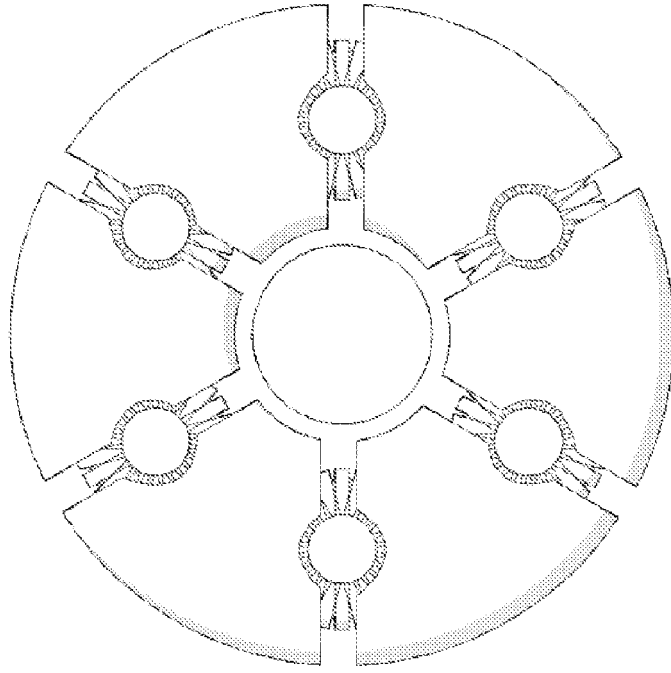


Figure 167

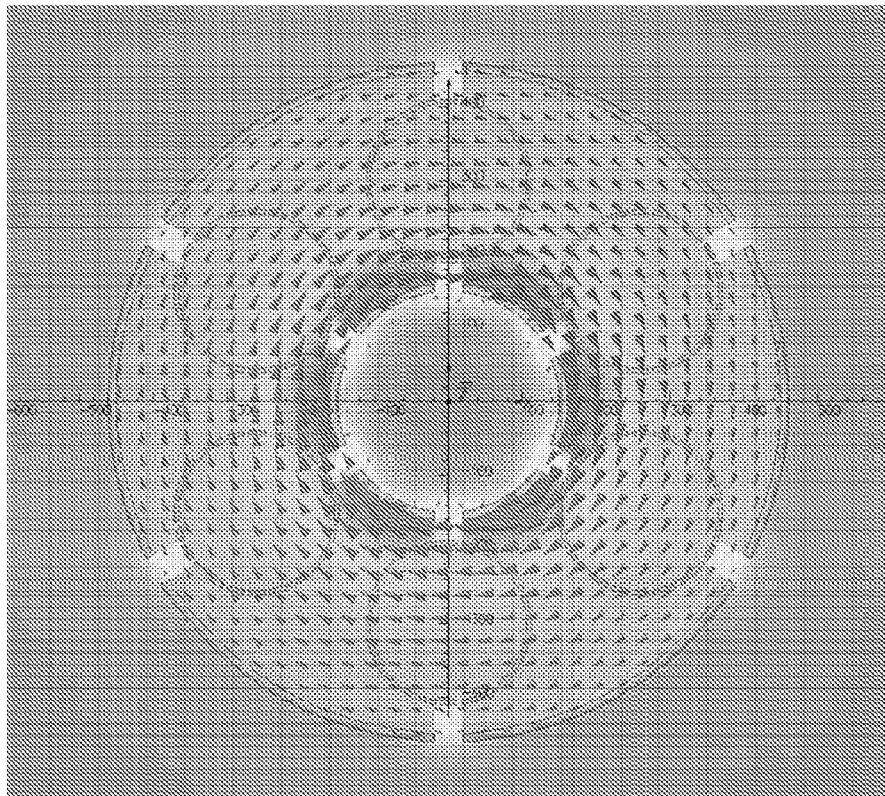


Figure 168

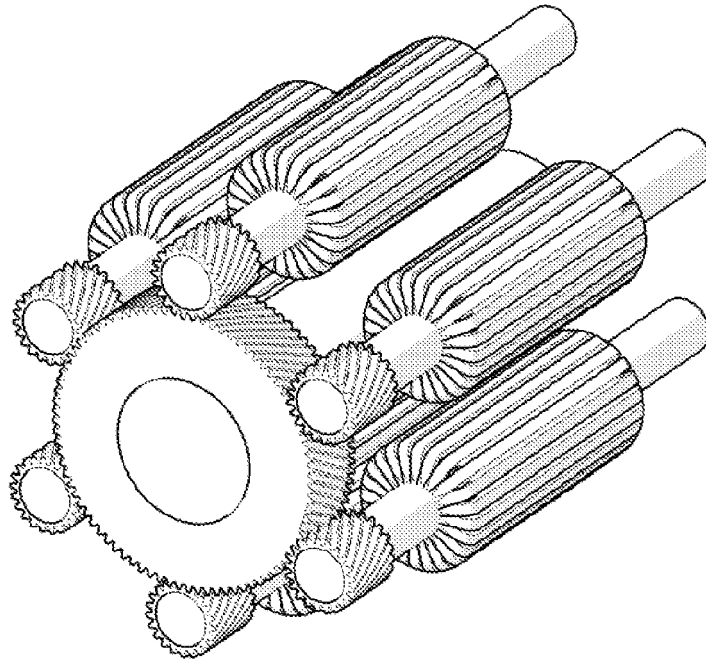


Figure 169

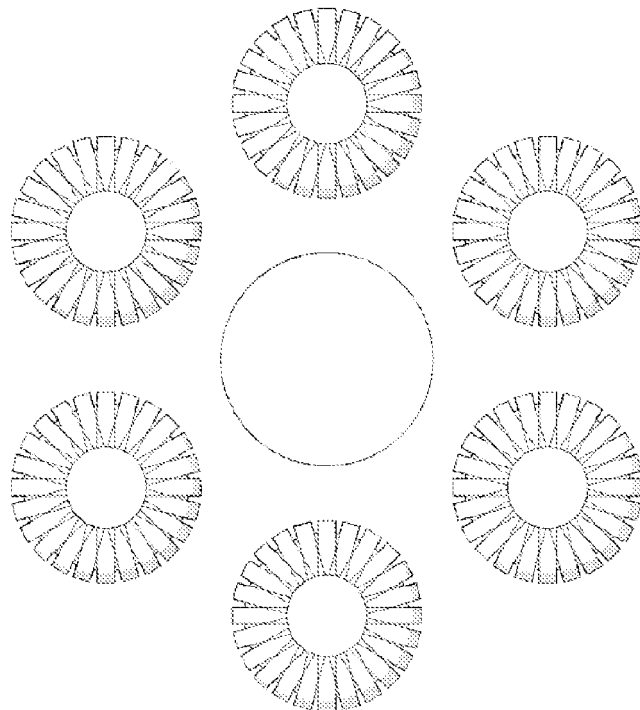


Figure 170

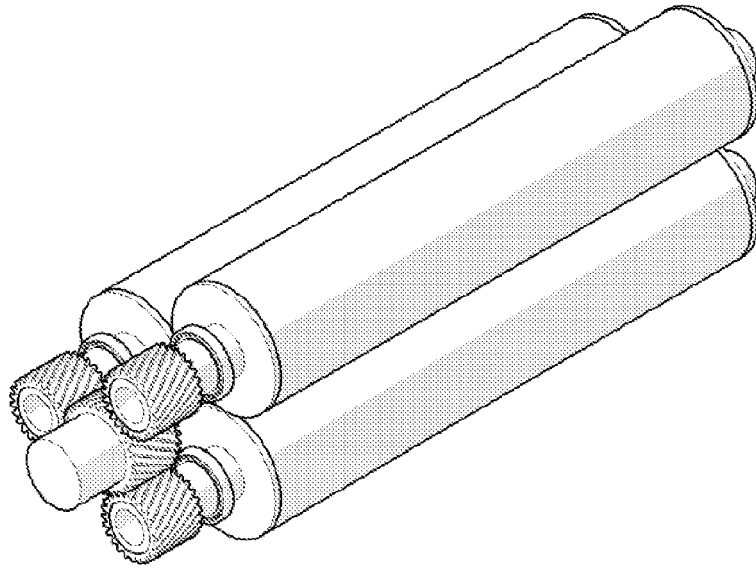


Figure 171

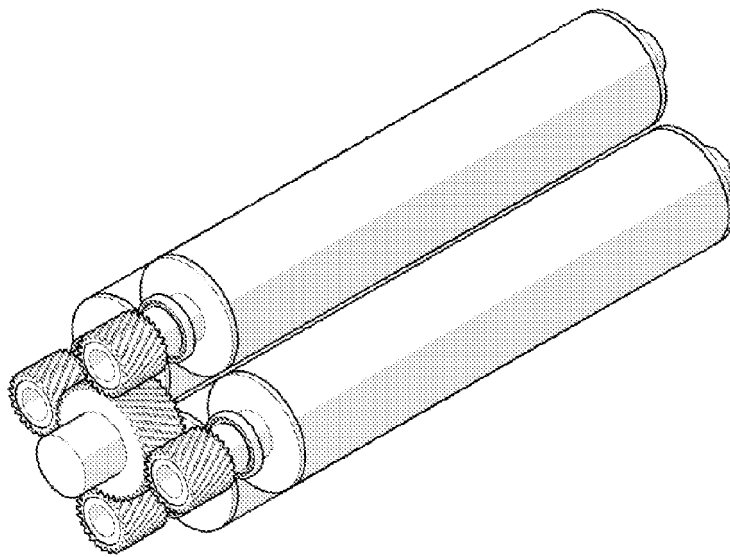


Figure 172

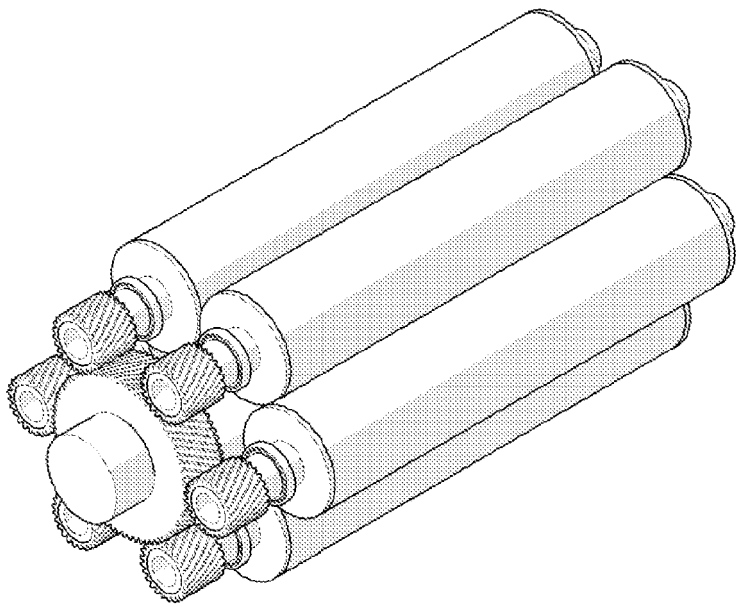


Figure 173

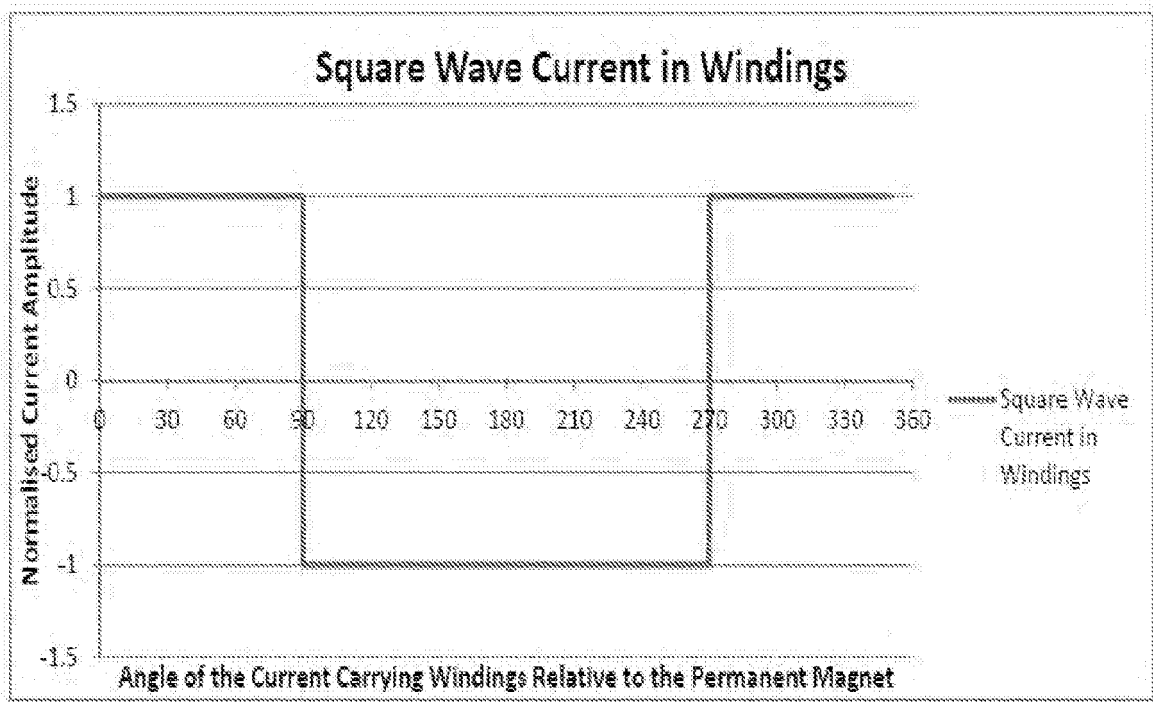


Figure 174

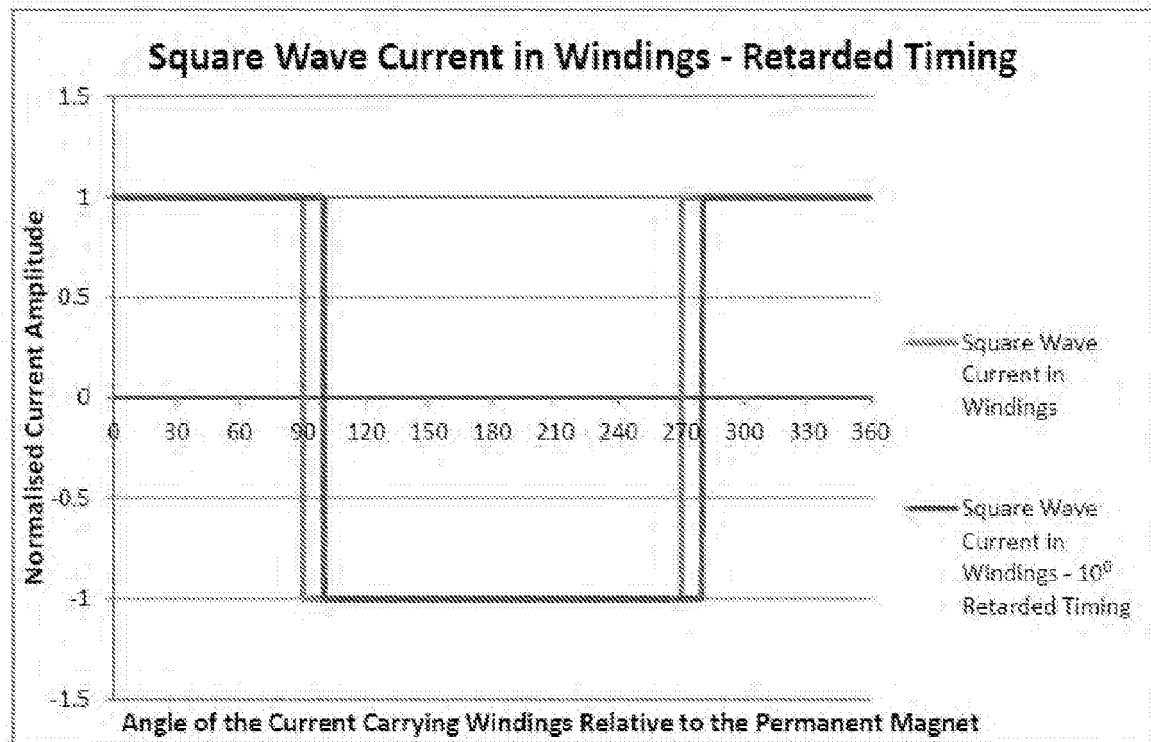


Figure 175

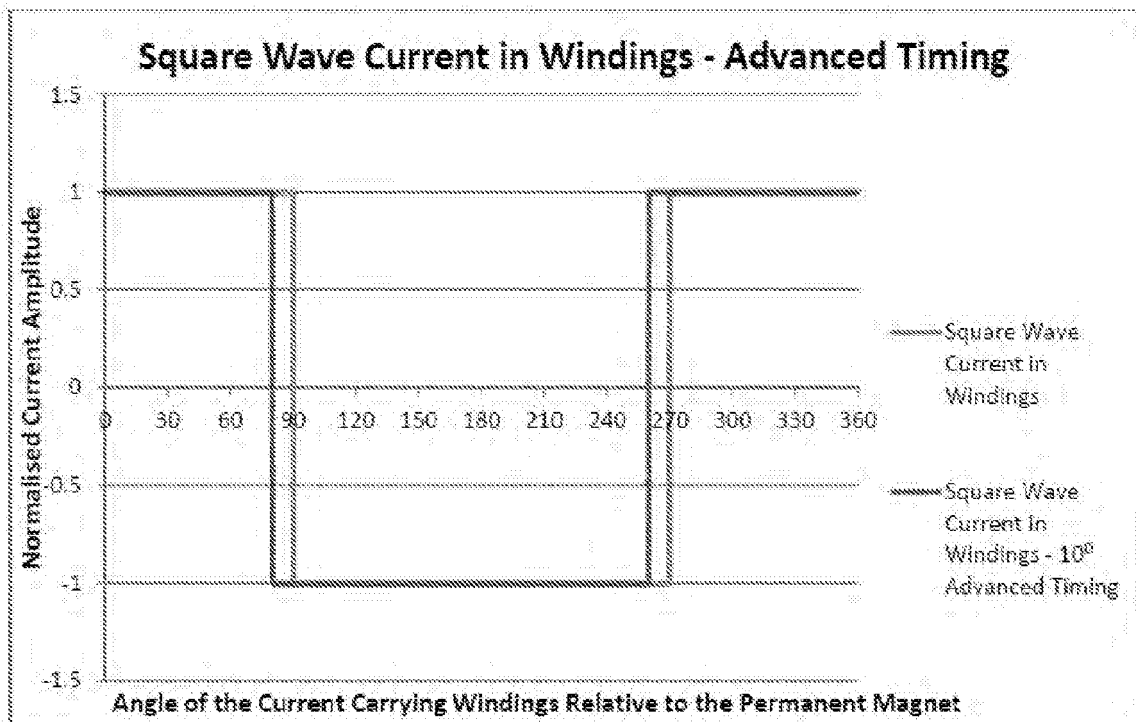


Figure 176

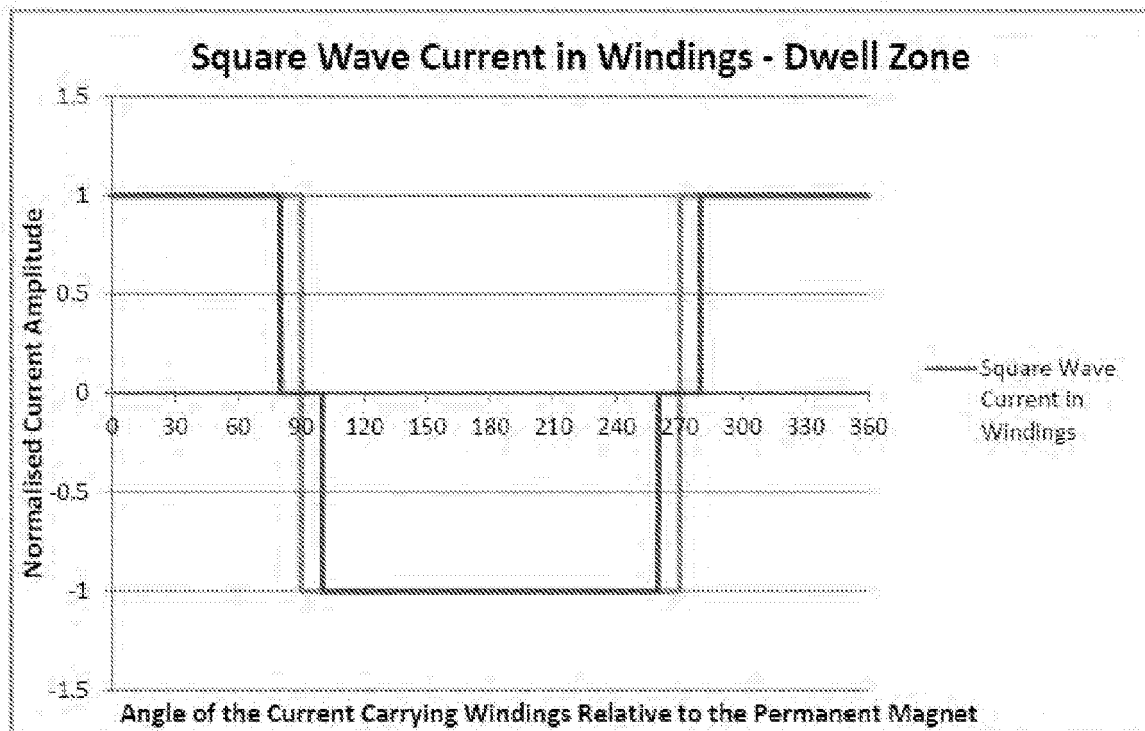


Figure 177

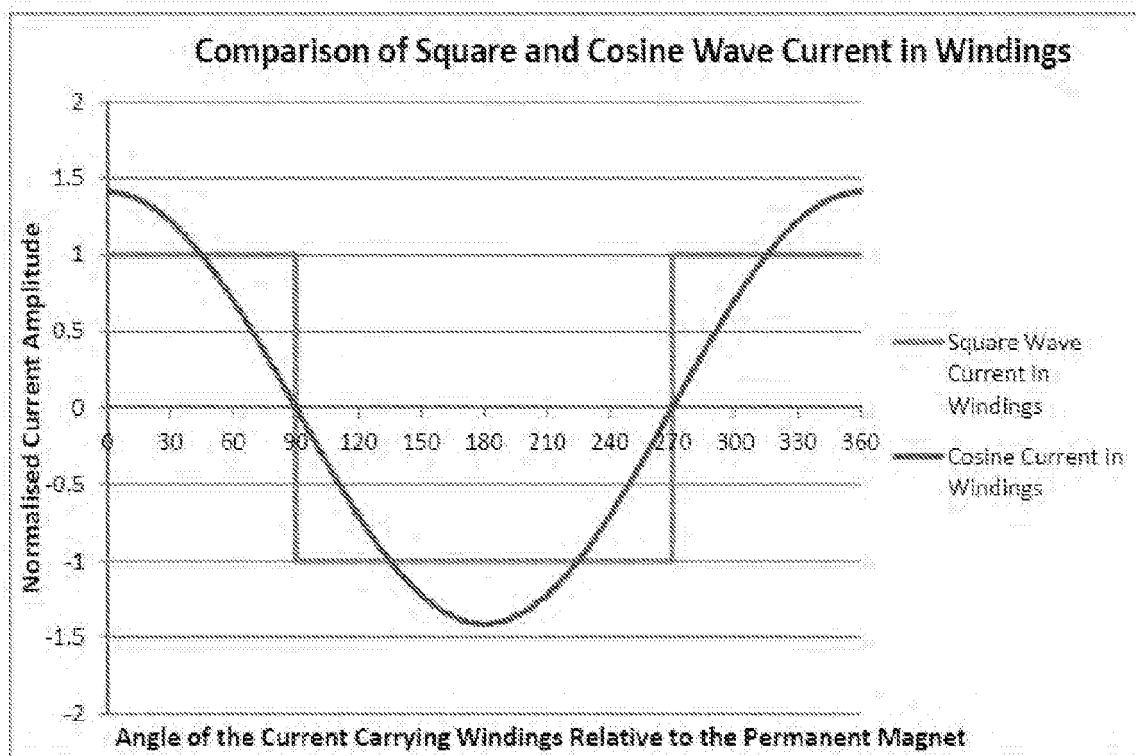


Figure 178

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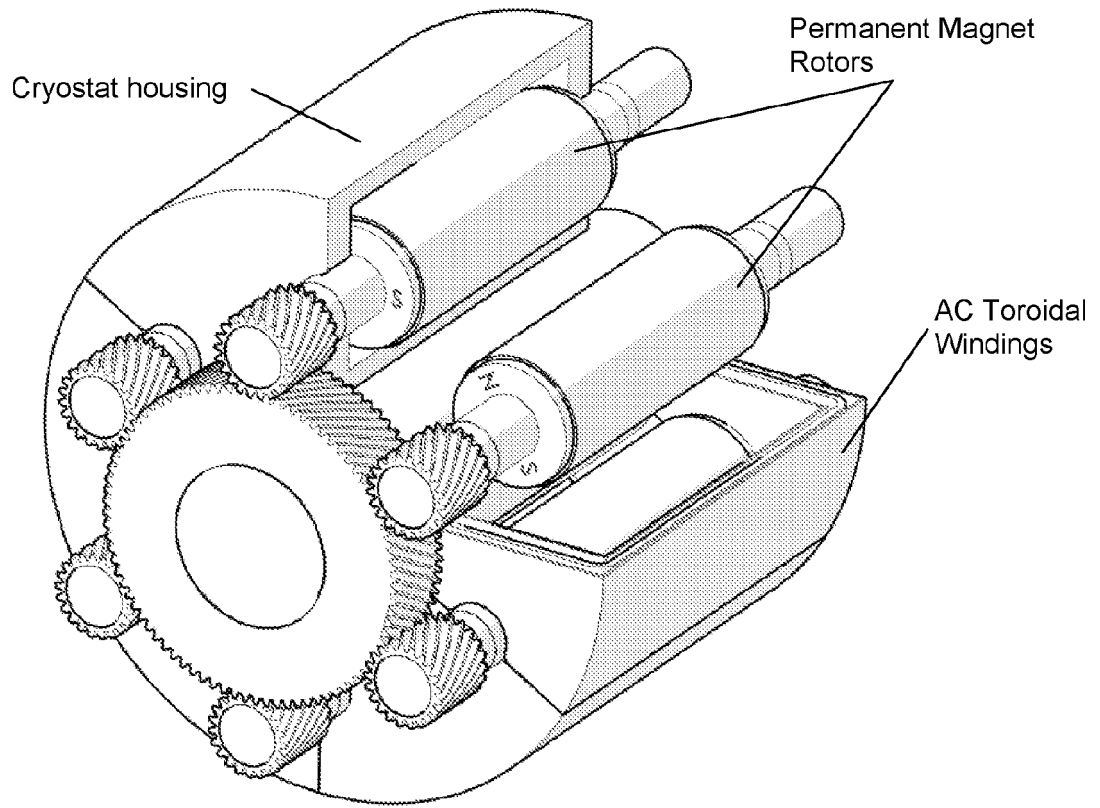


Figure 179

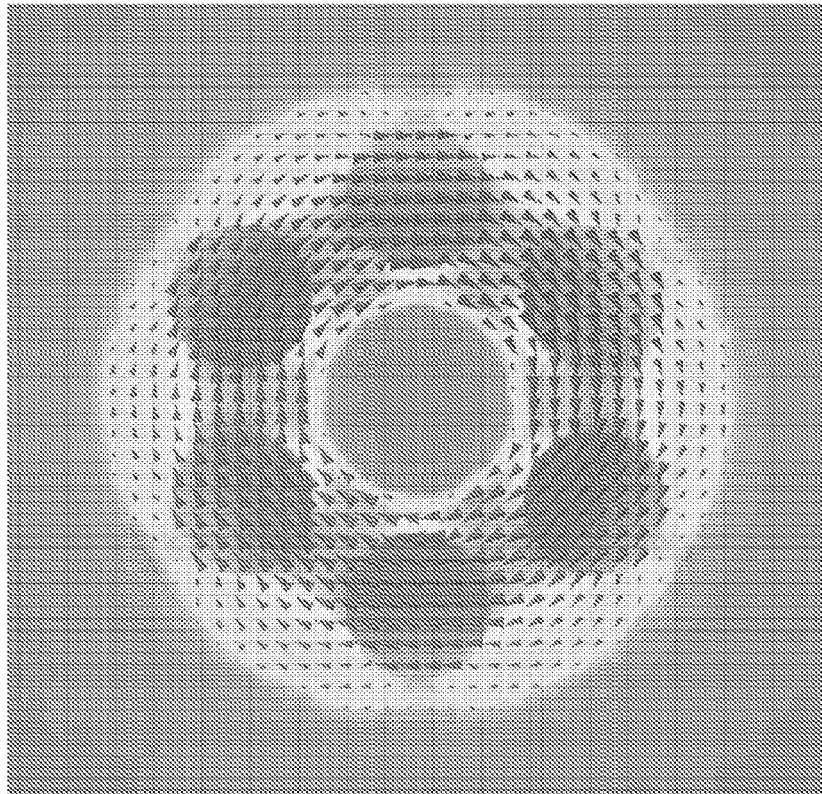


Figure 180

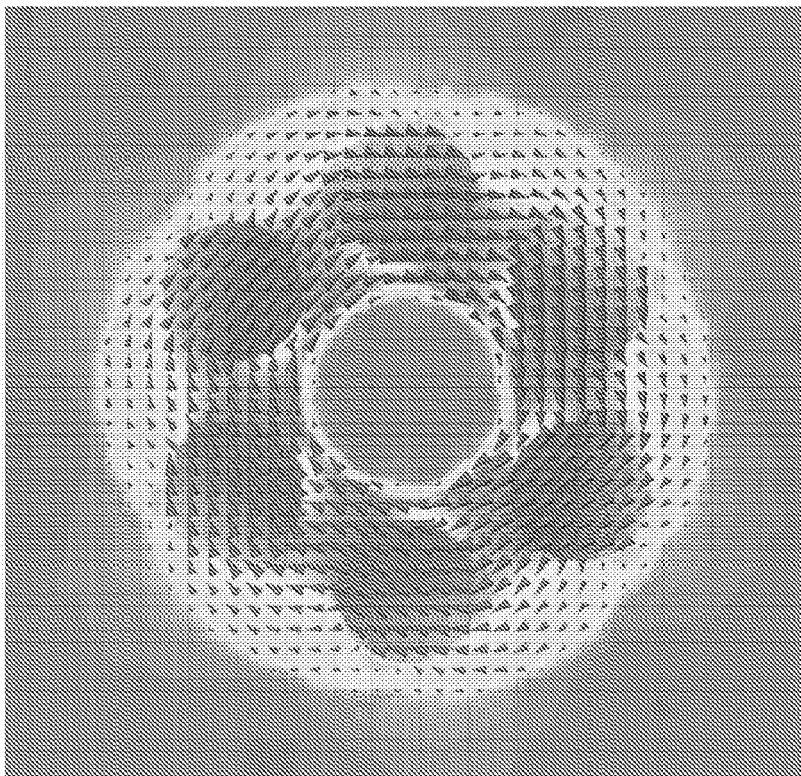


Figure 181

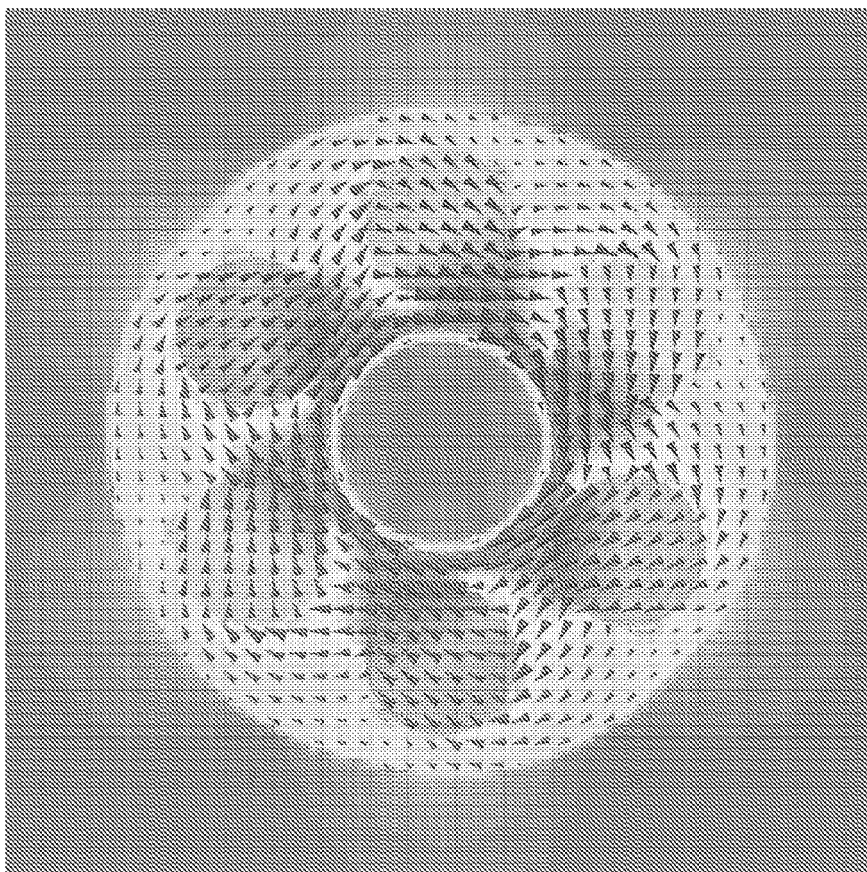


Figure 182

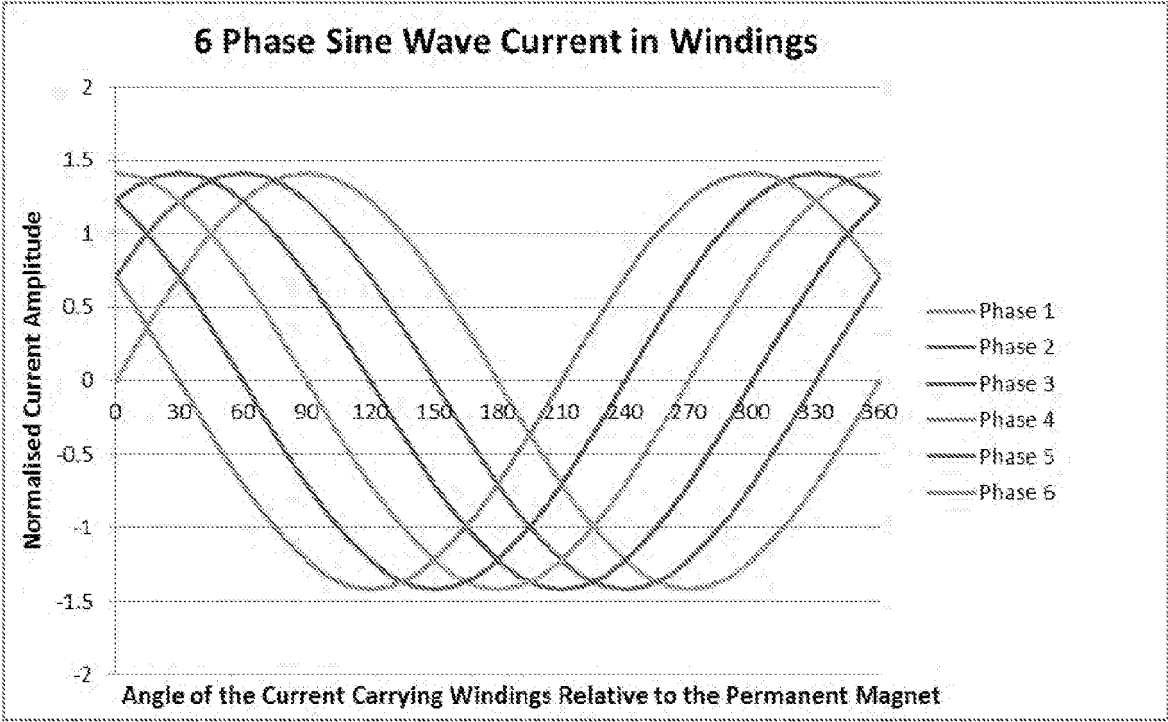


Figure 183

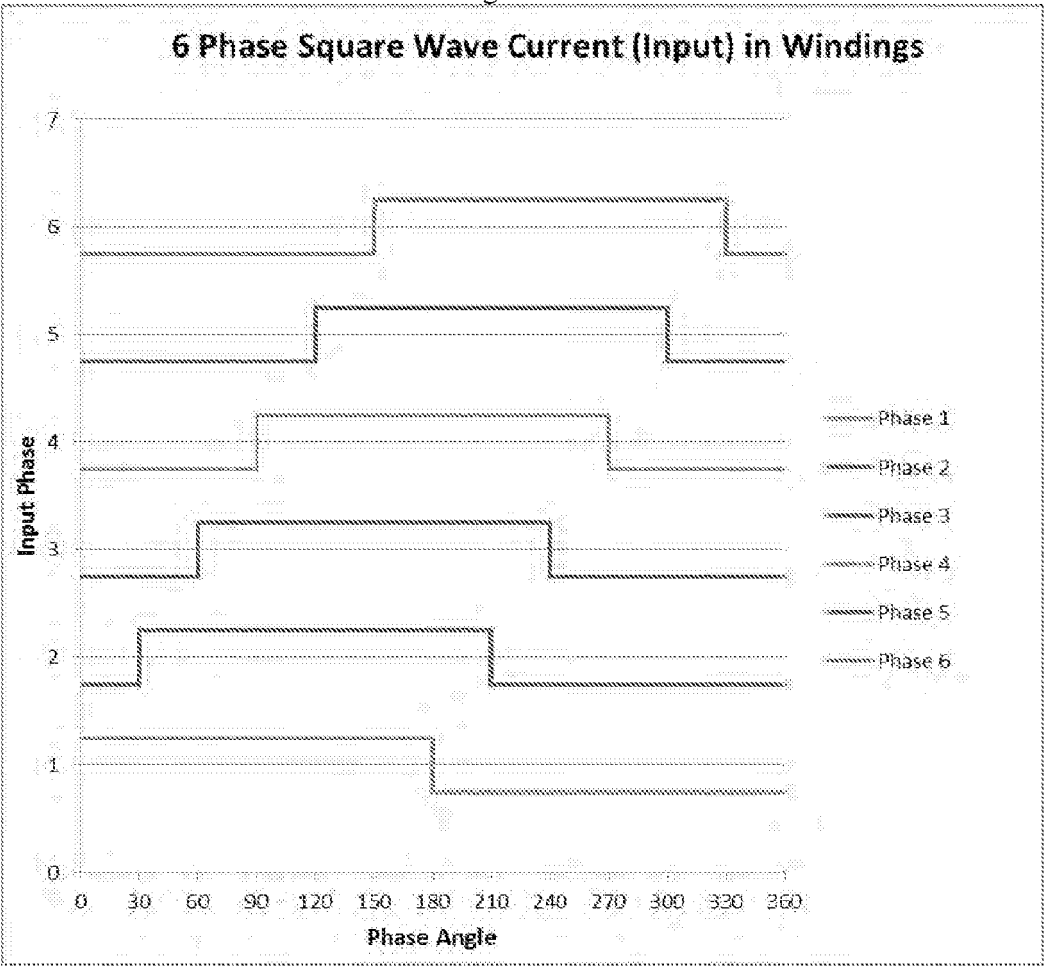


Figure 184

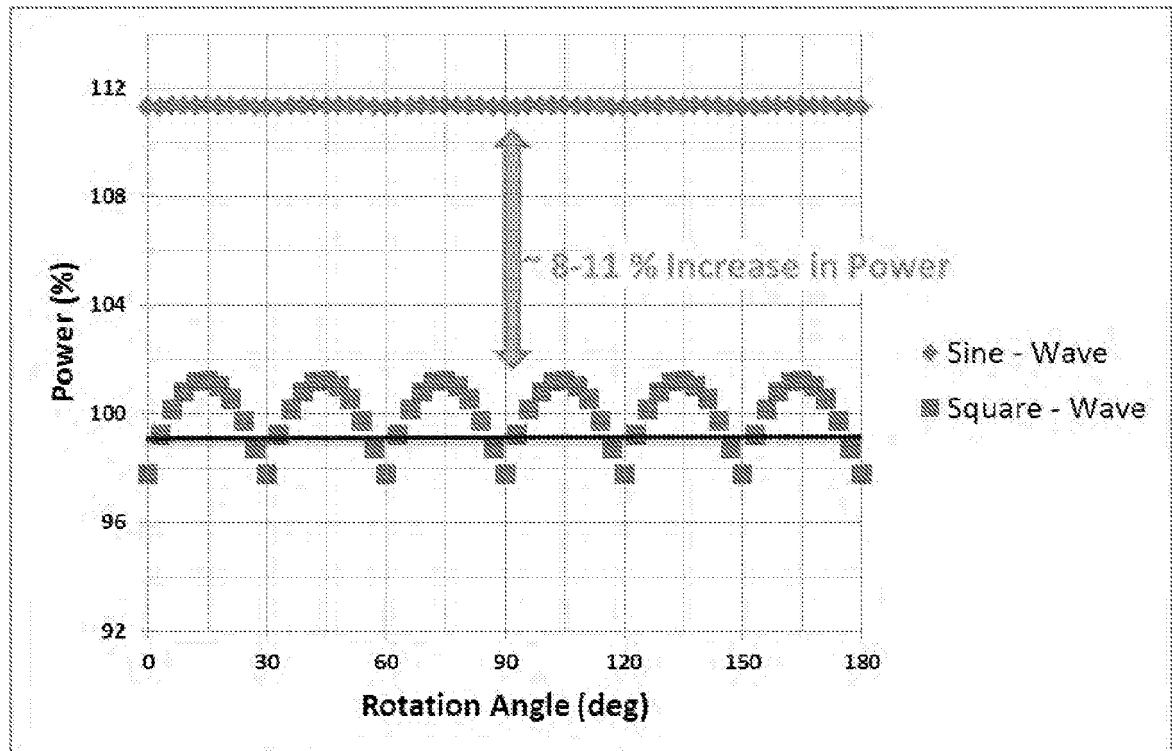


Figure 185

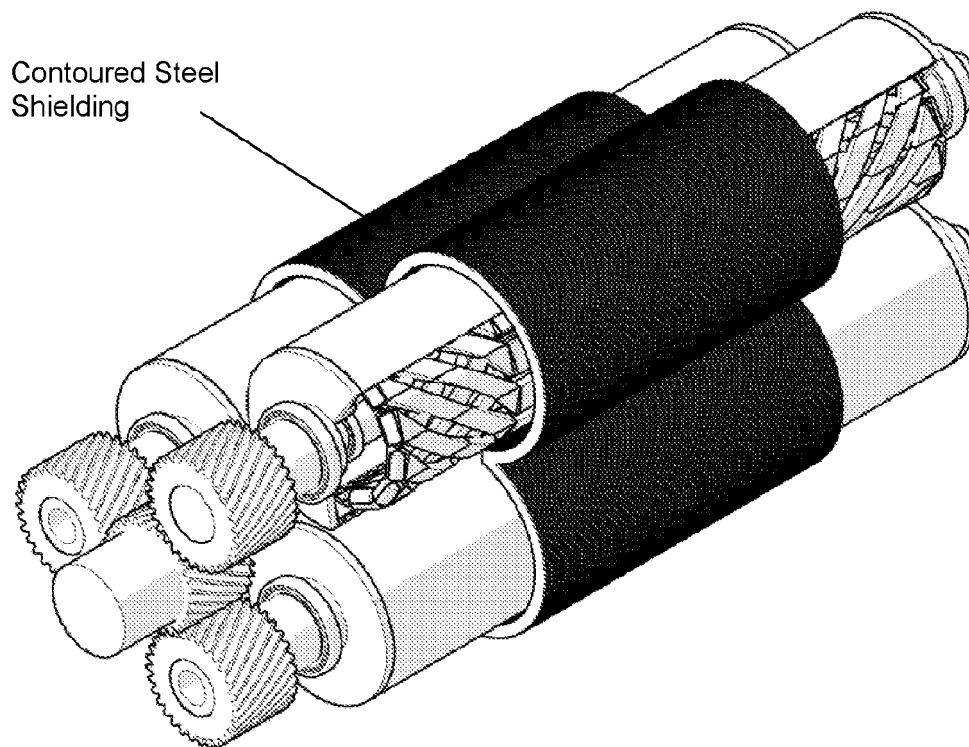


Figure 186

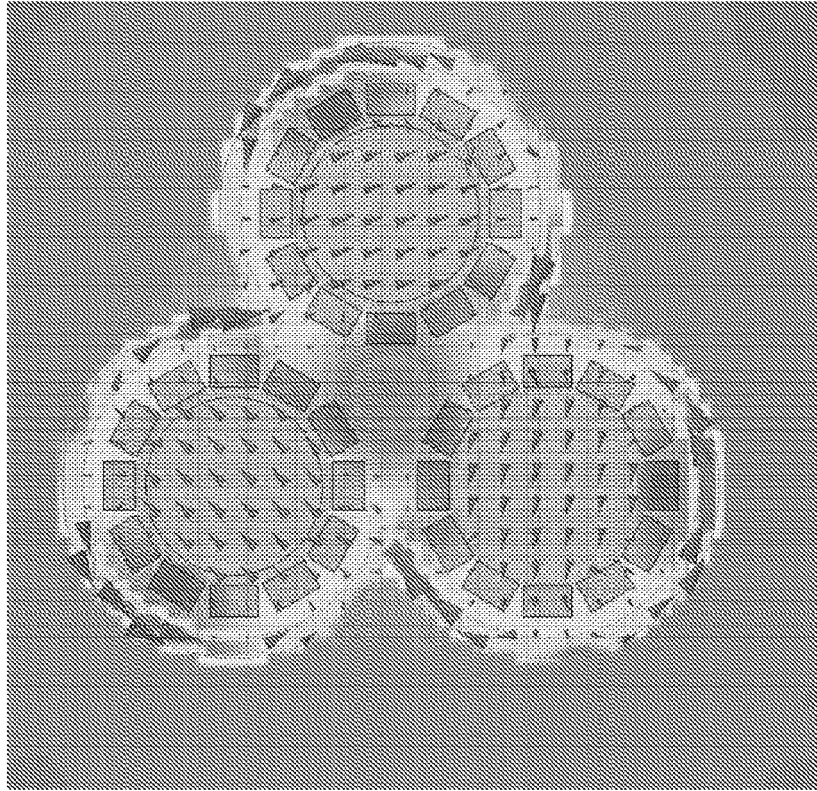


Figure 187

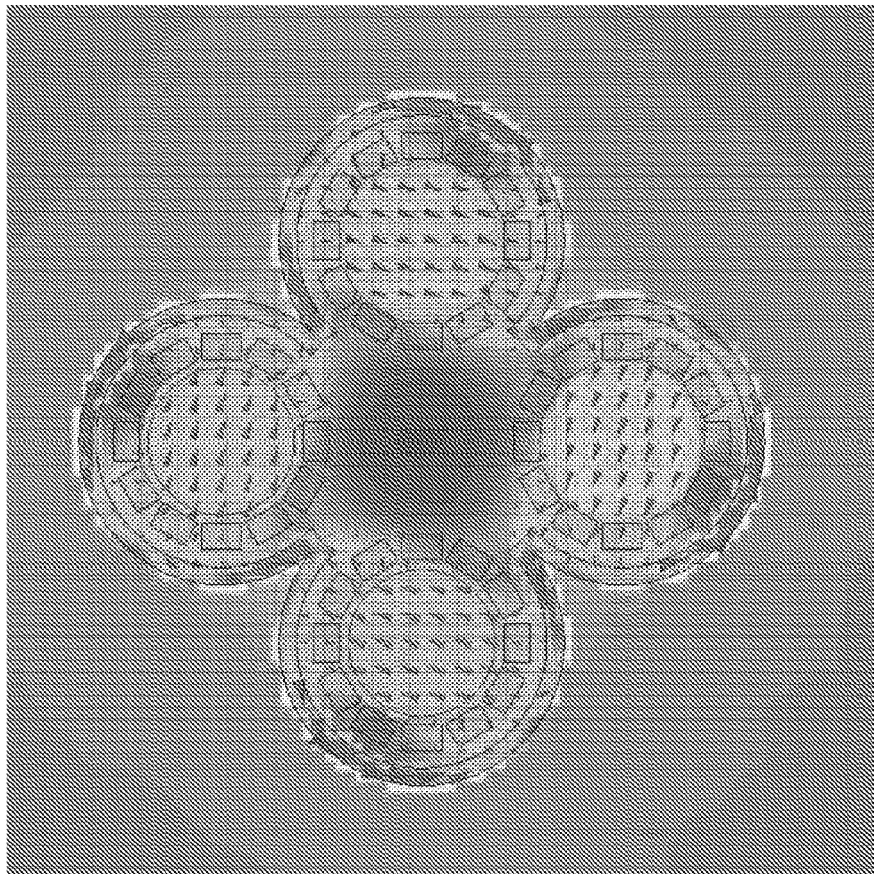


Figure 188

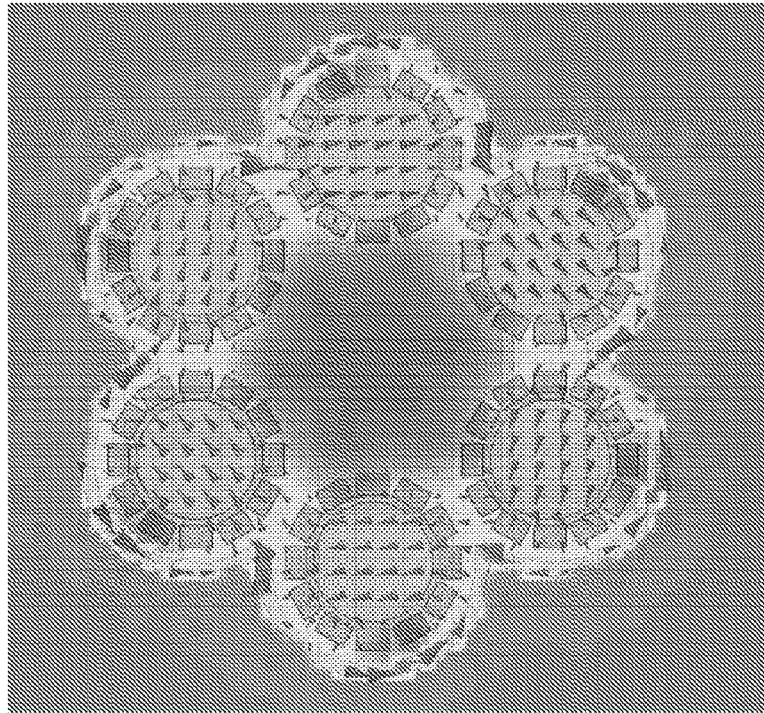


Figure 189

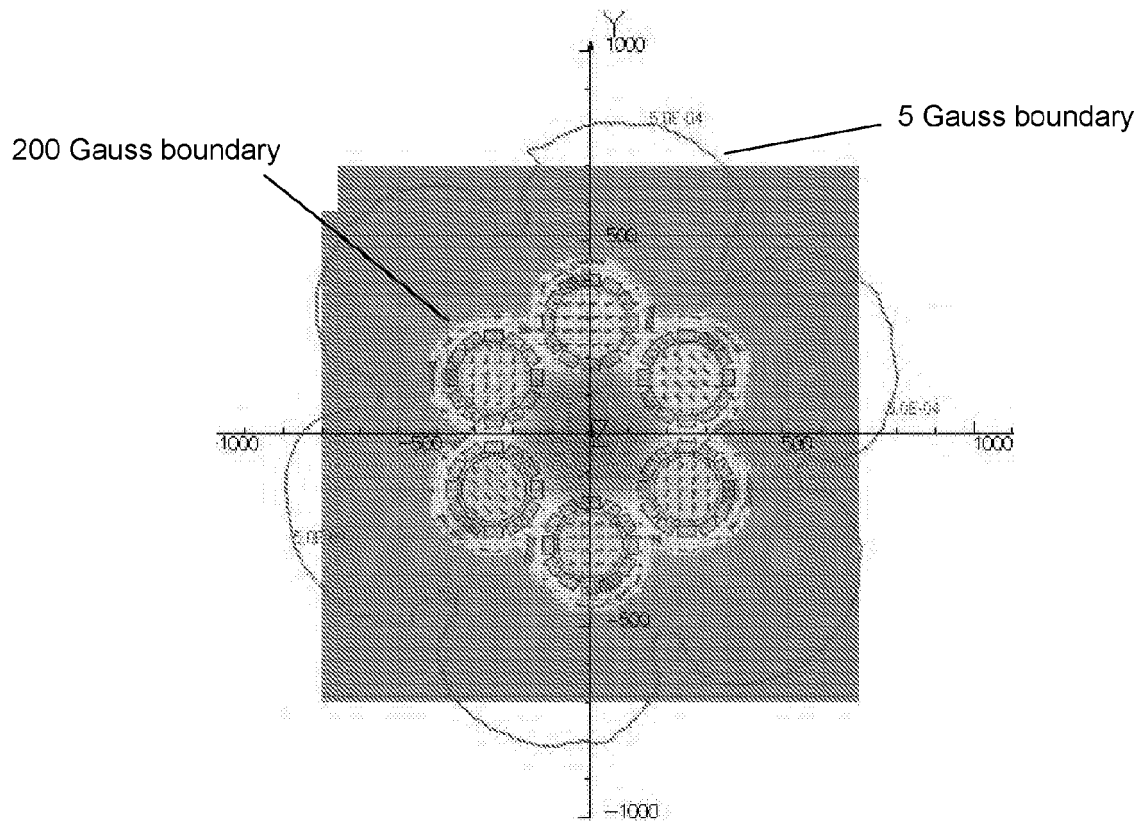


Figure 190

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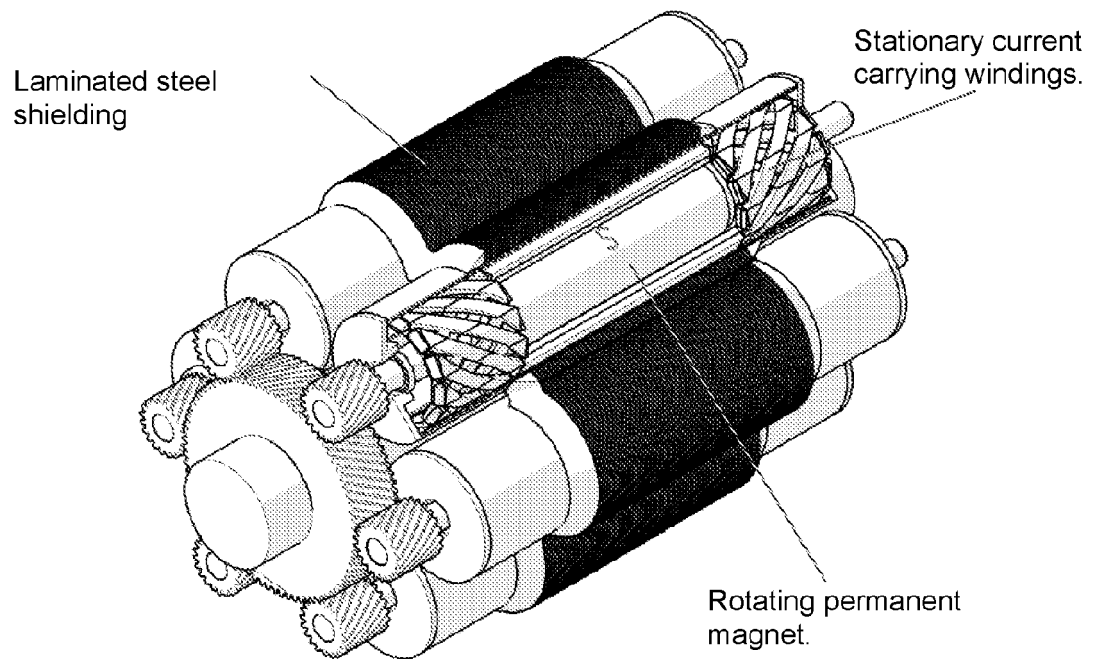


Figure 191

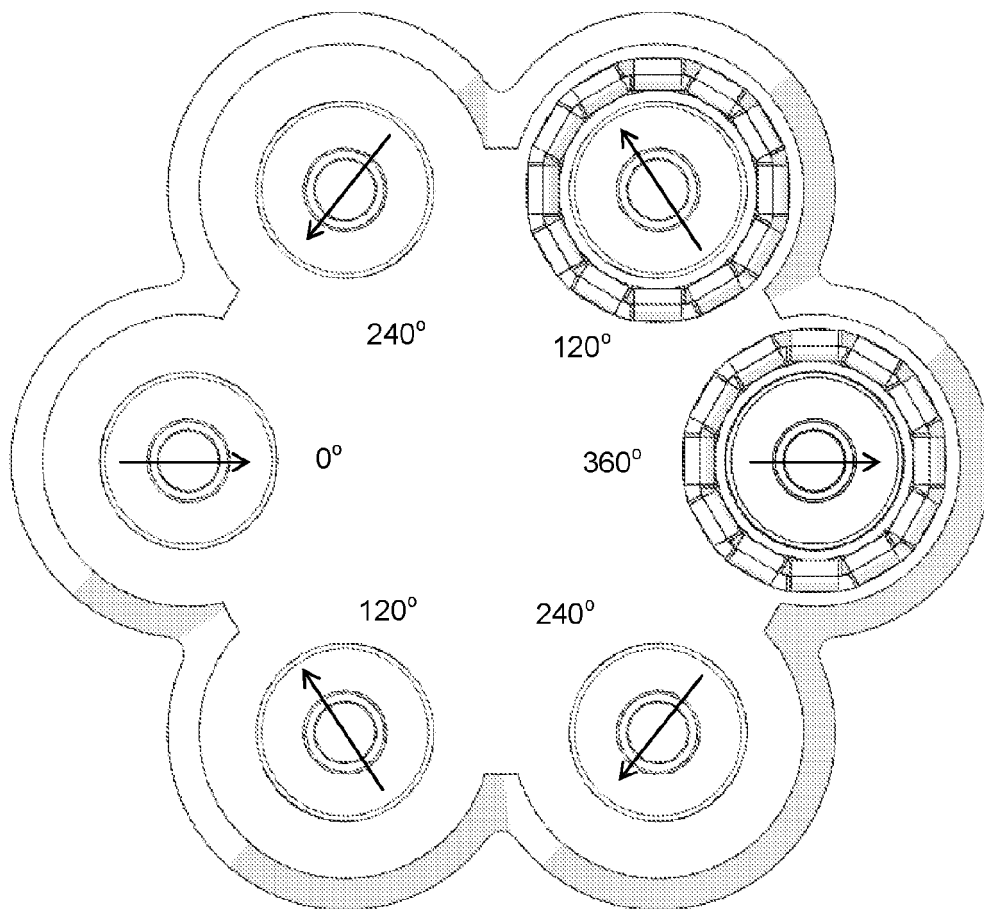


Figure 192

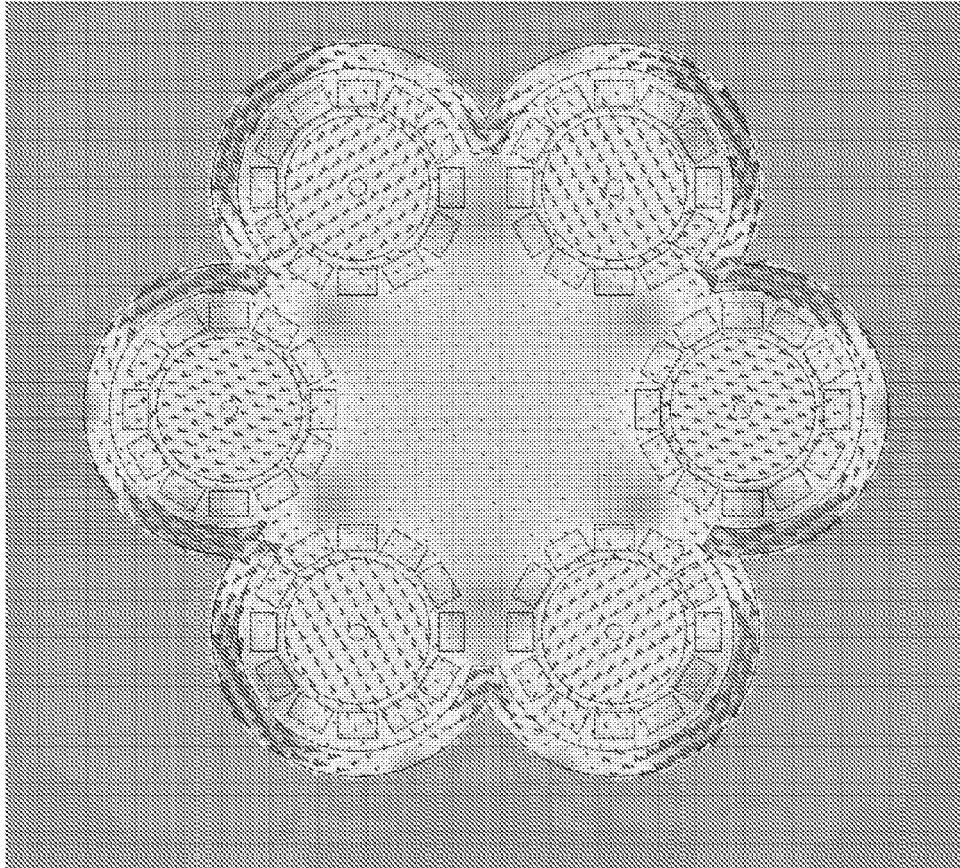


Figure 193

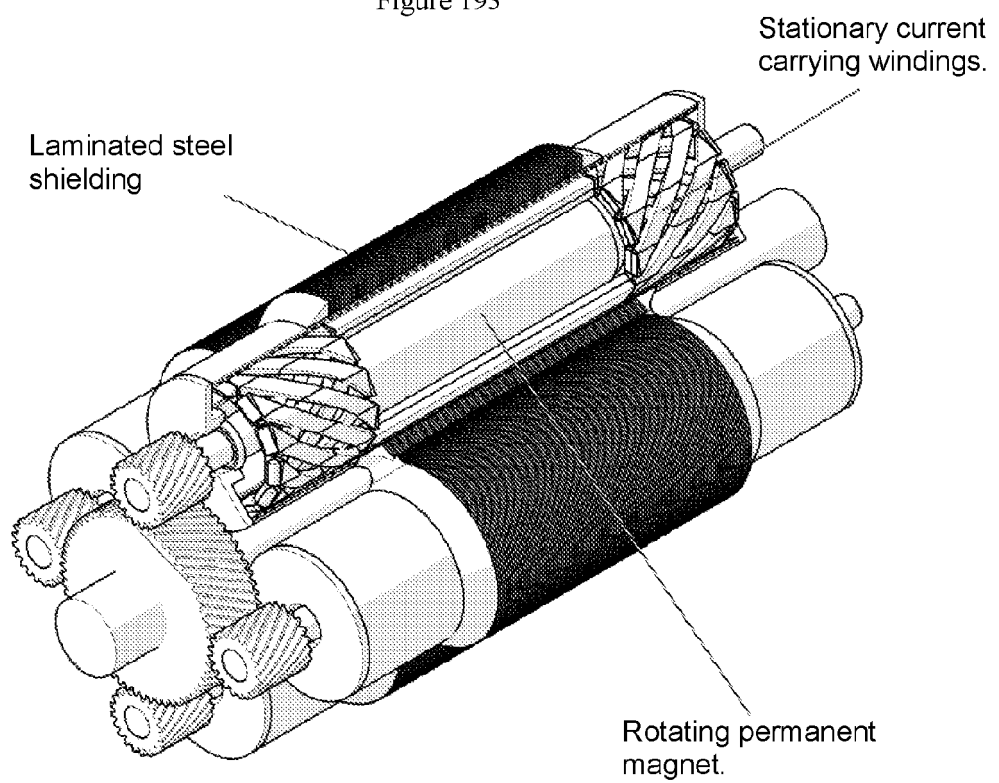


Figure 194

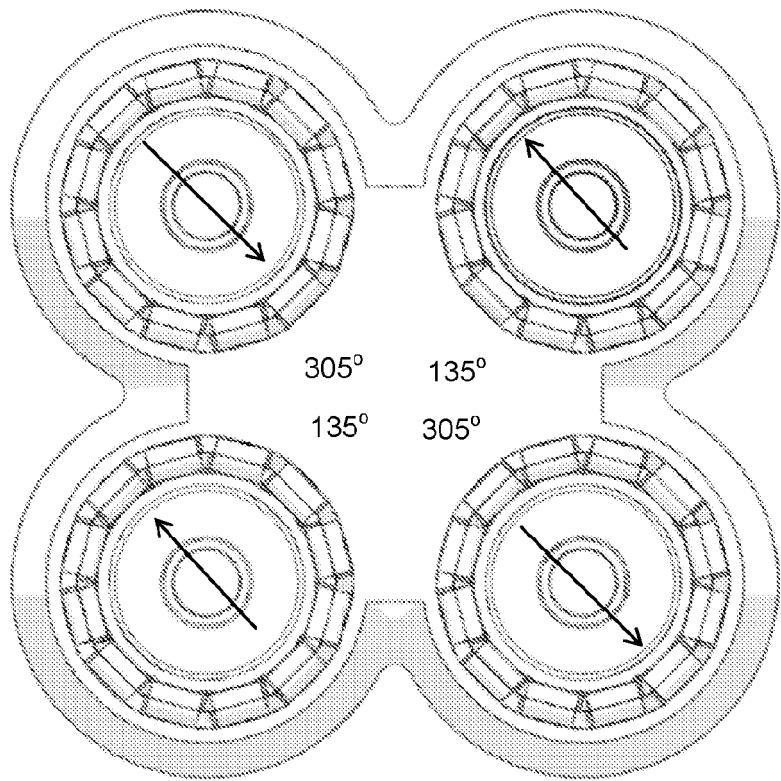


Figure 195

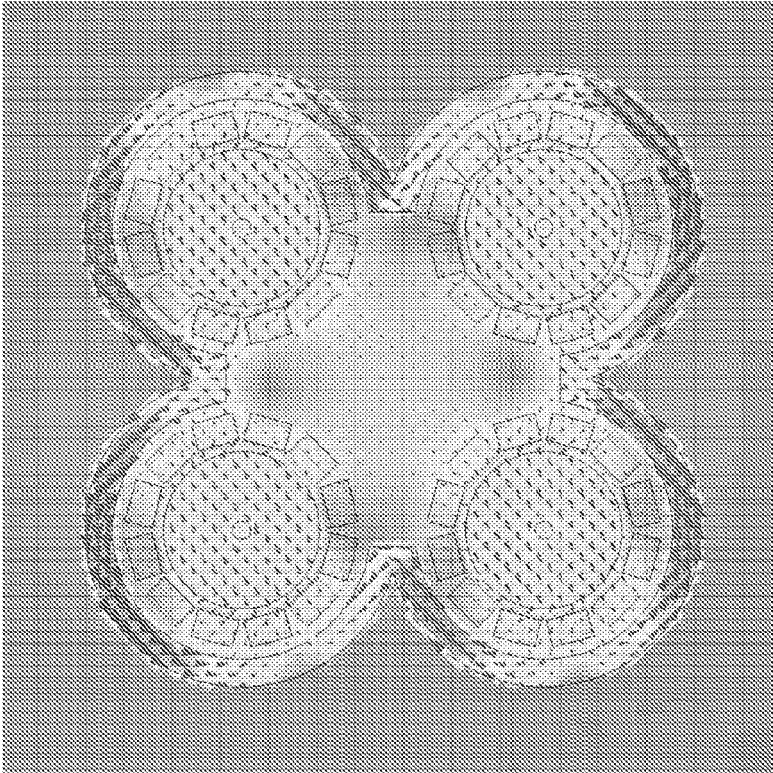


Figure 196

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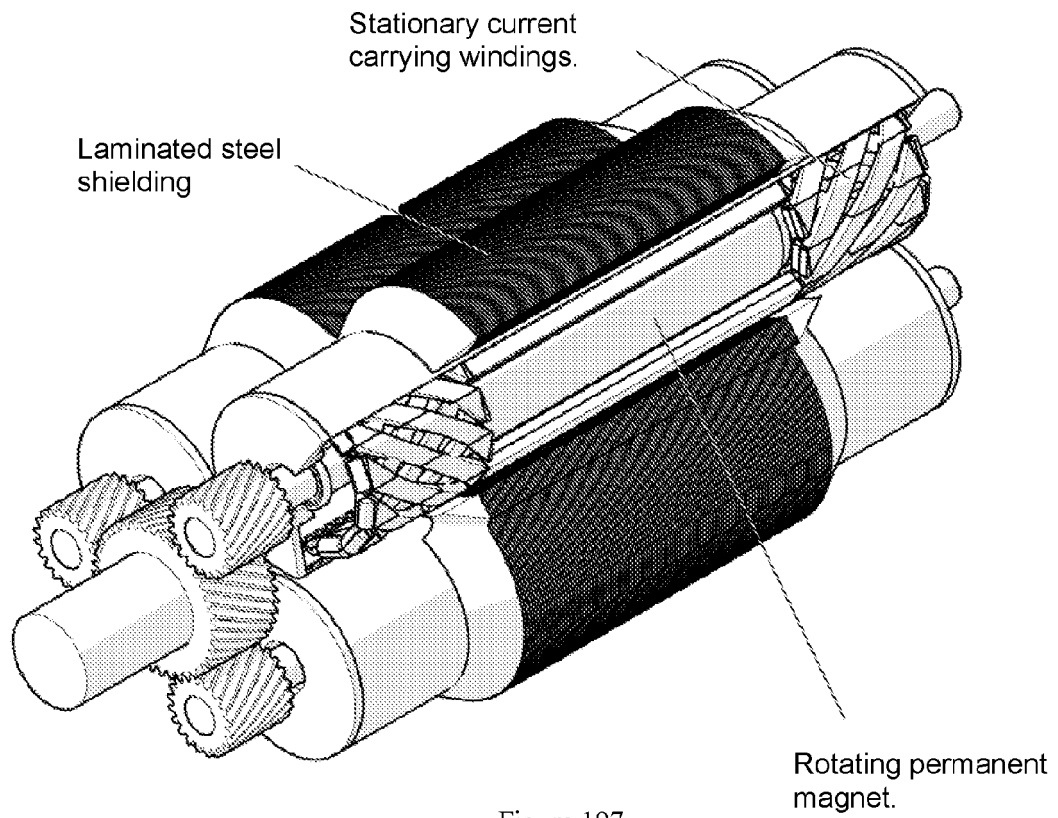


Figure 197

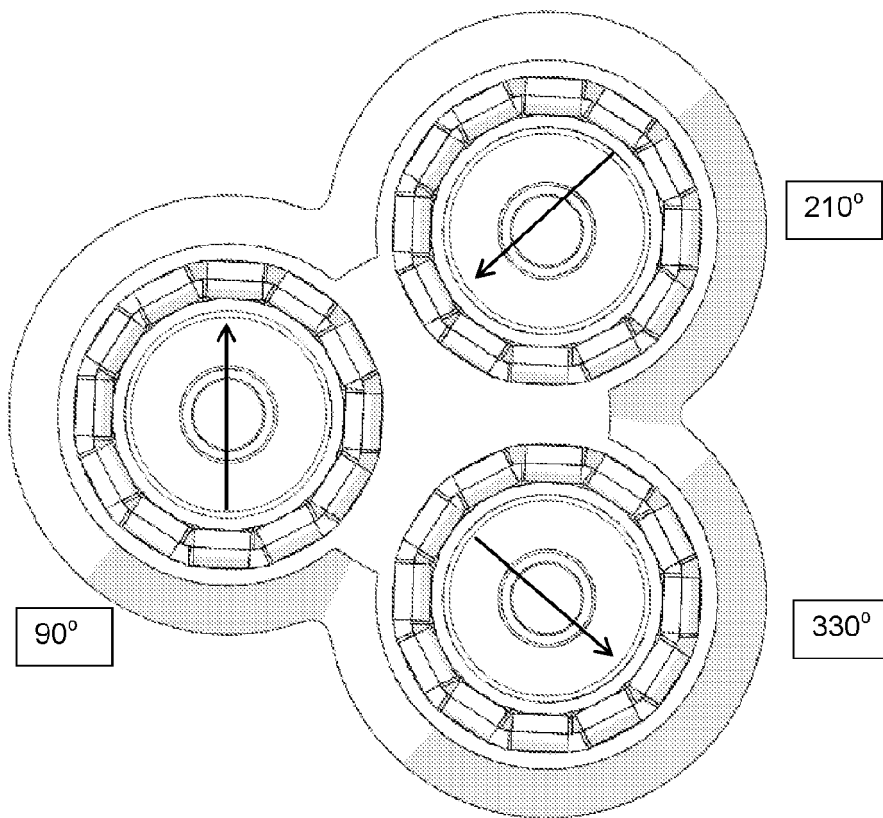


Figure 198

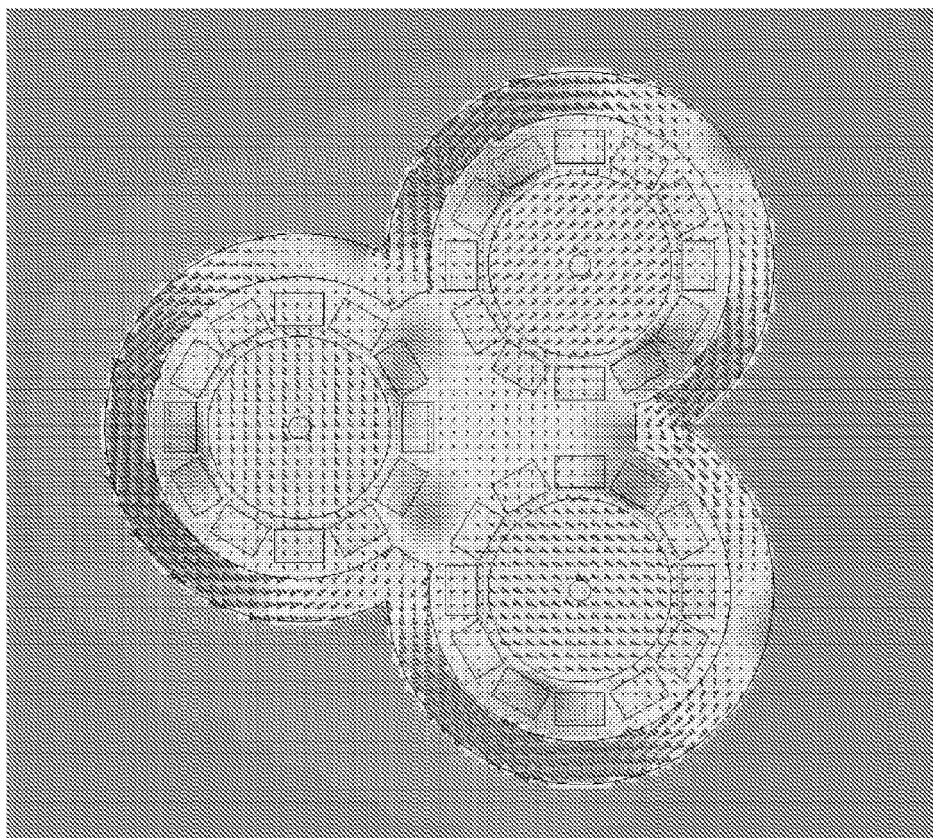
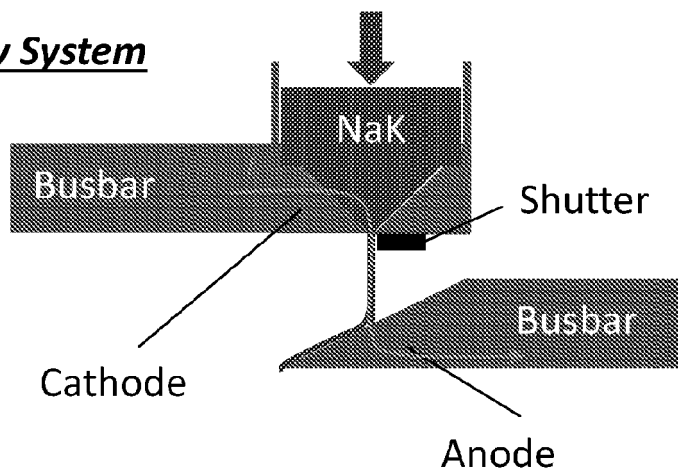


Figure 199

Liquid Metal Switch

Spray System



Brush System

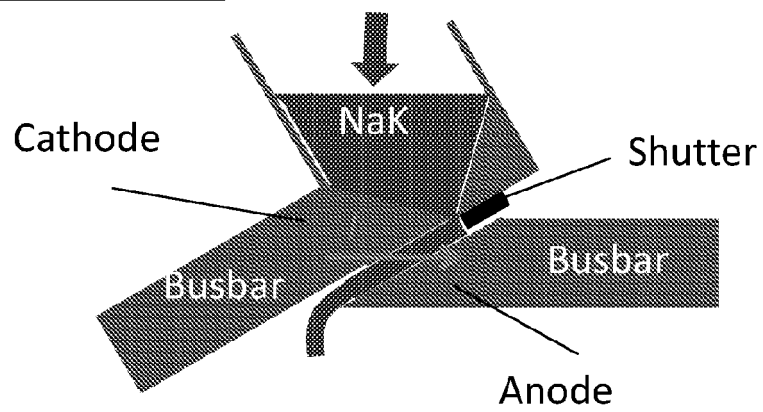


Figure 200

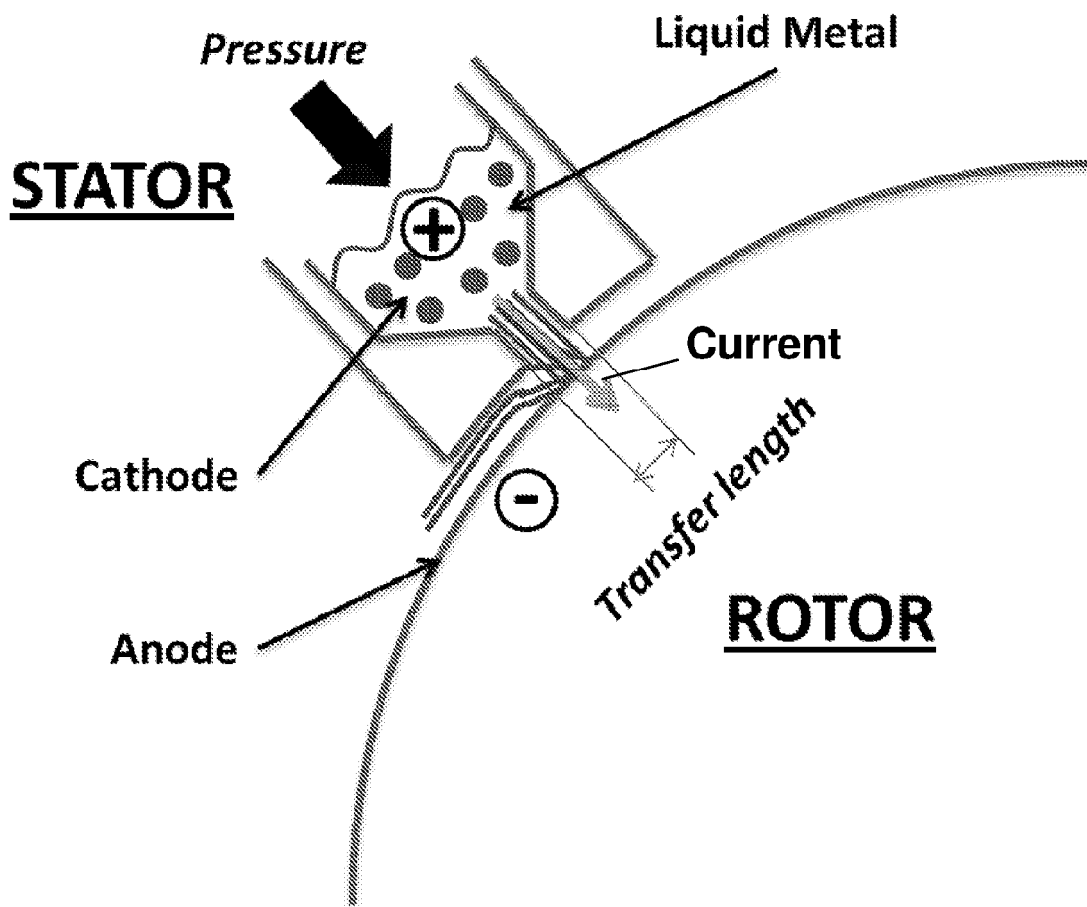


Figure 201

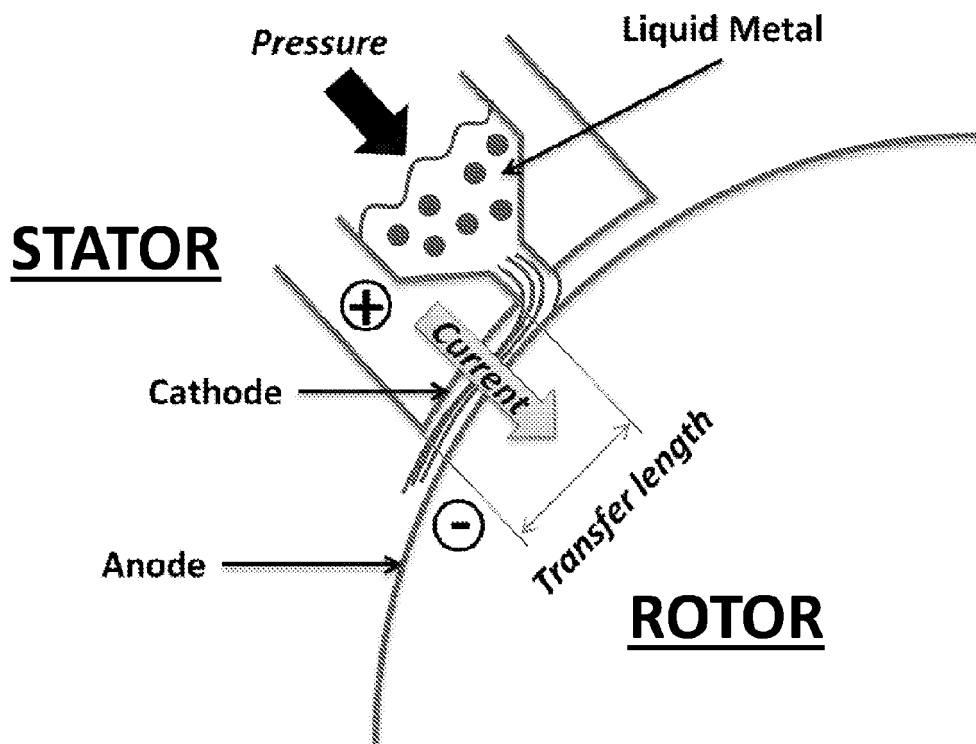


Figure 202

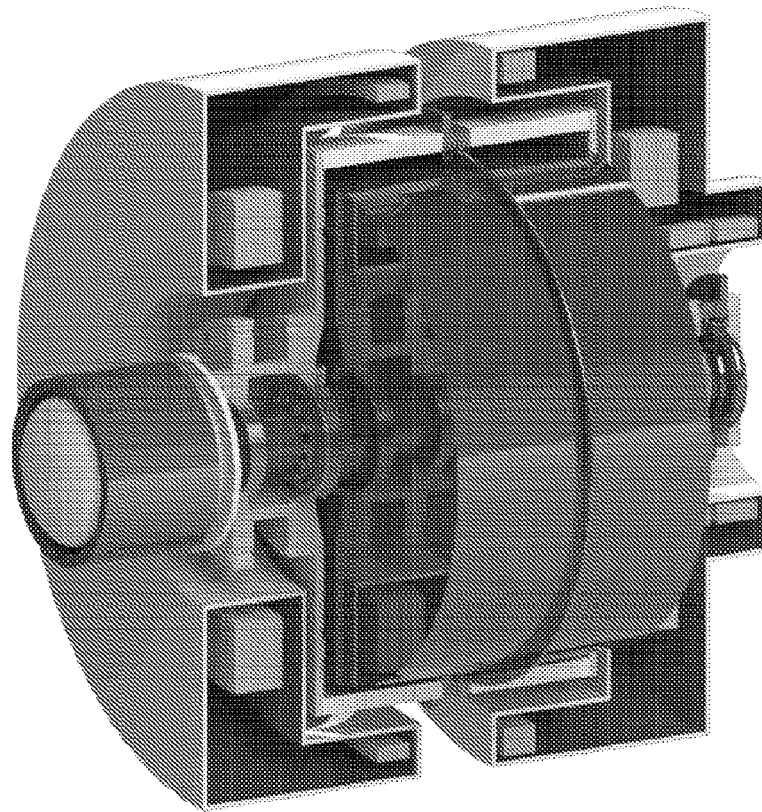


Figure 203

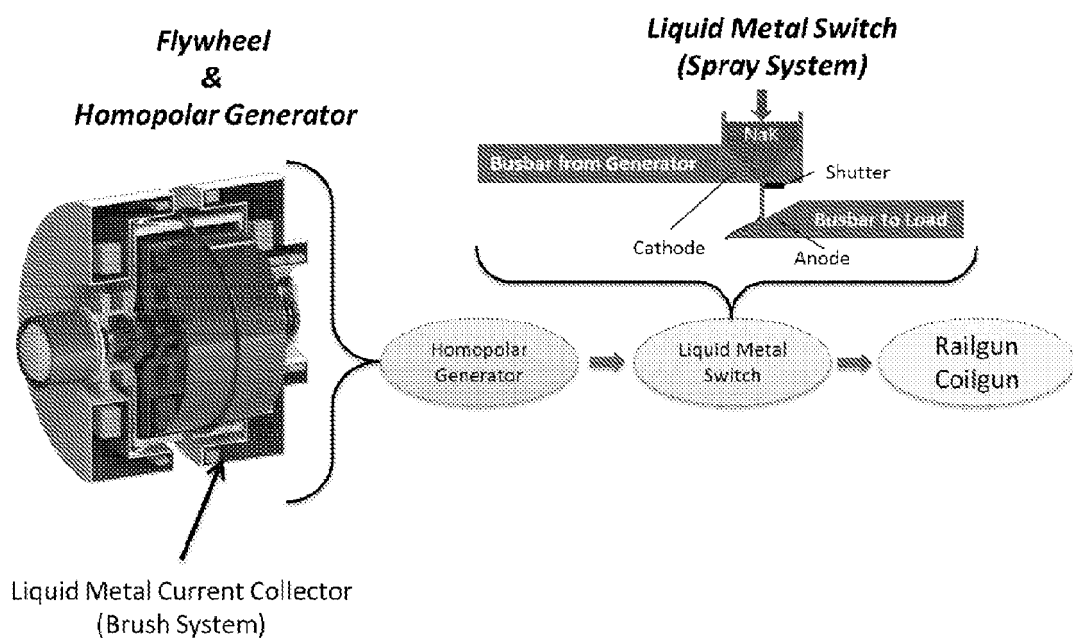


Figure 204

Energy is stored in the rotor/flywheel of the homopolar generator.

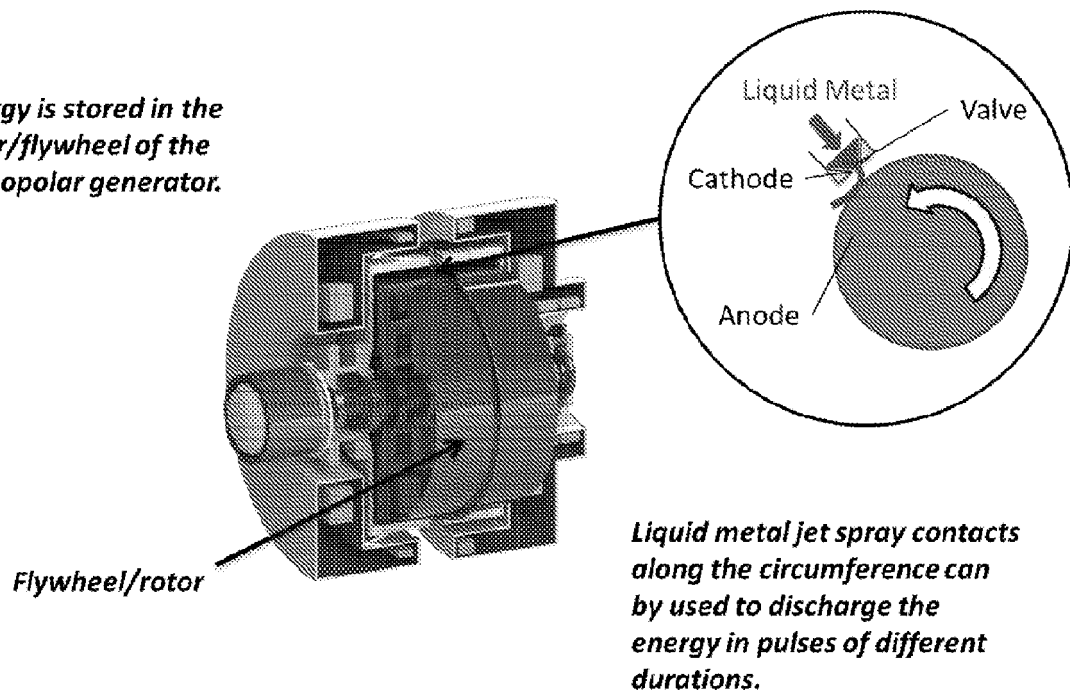


Figure 205

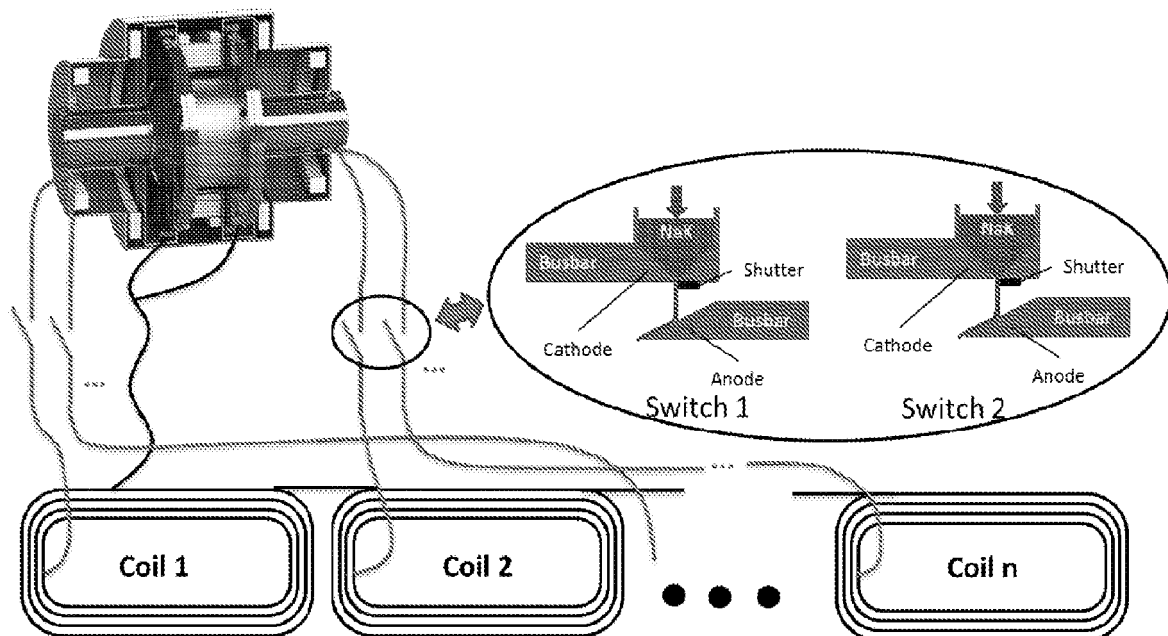


Figure 206

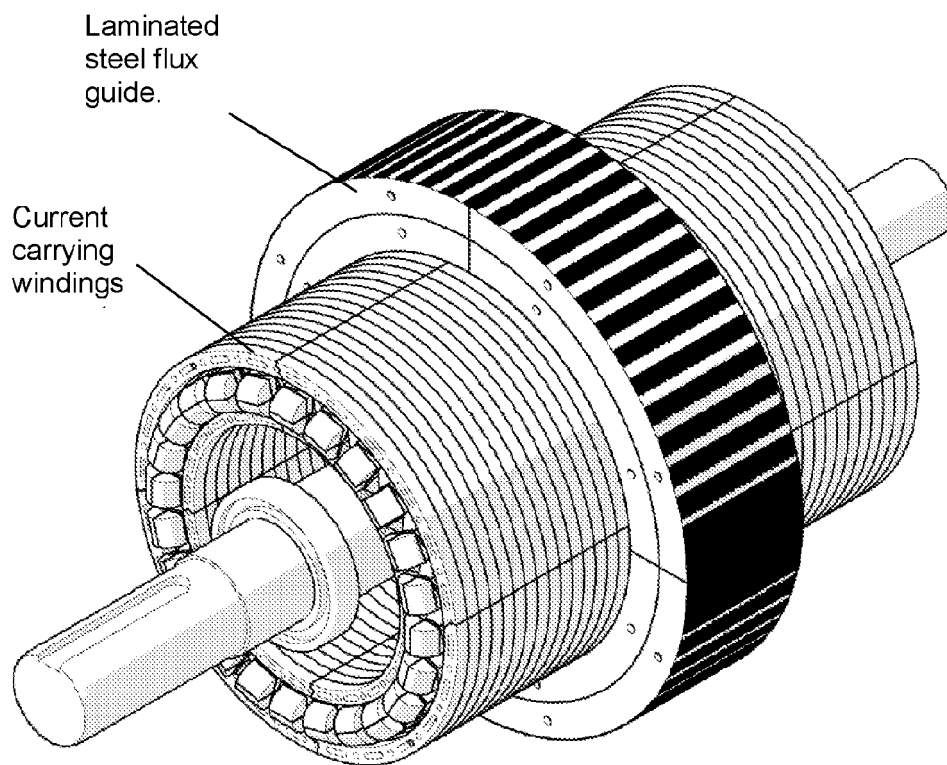


Figure 207

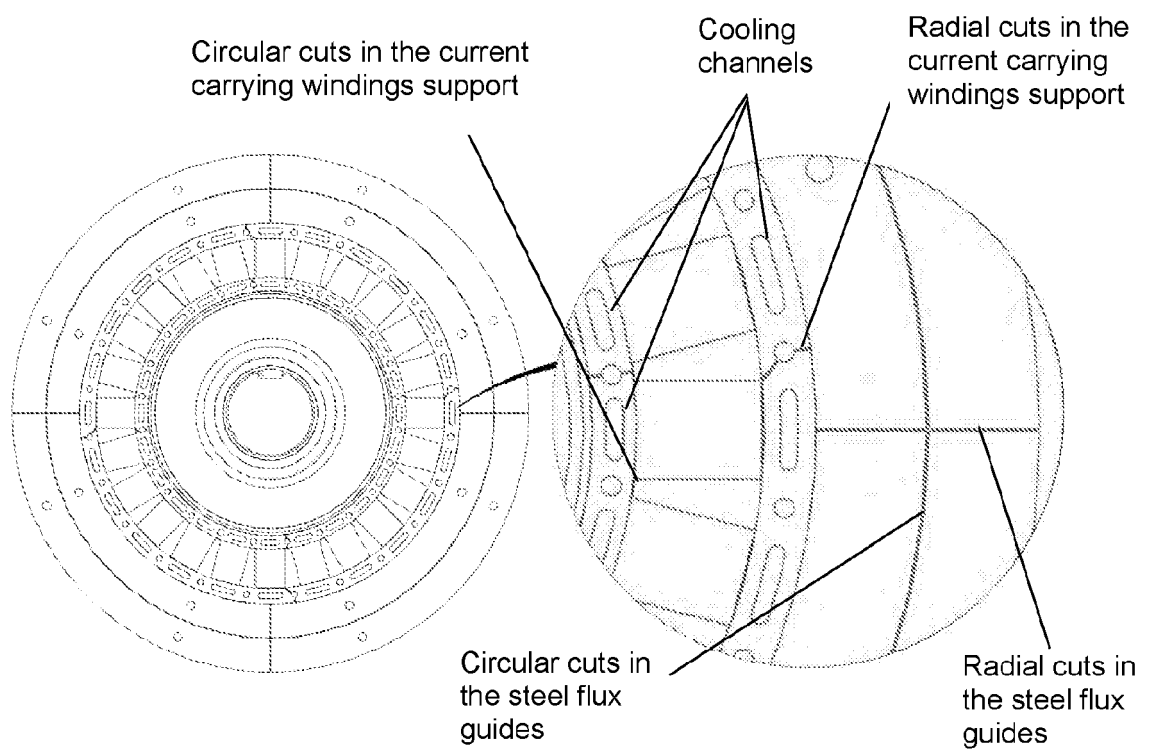


Figure 208

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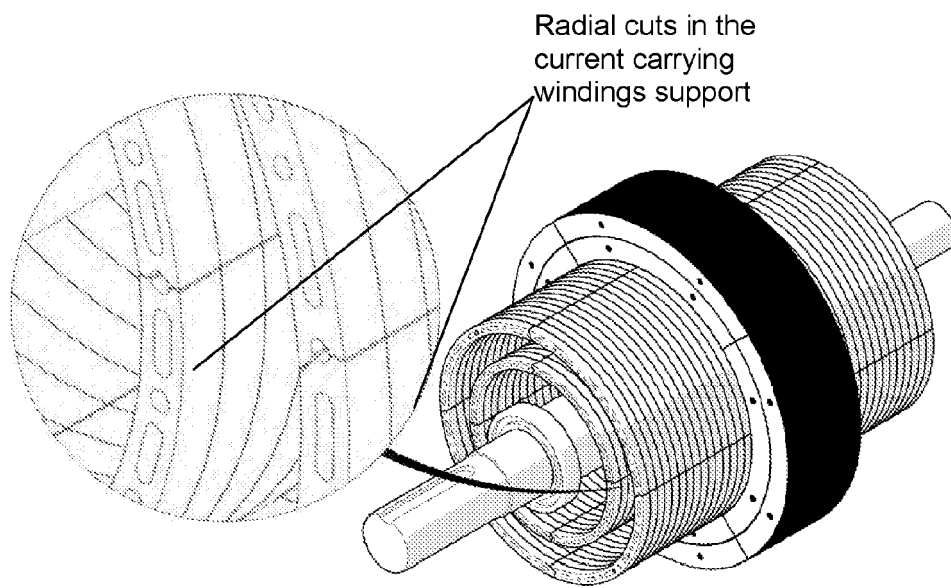


Figure 209

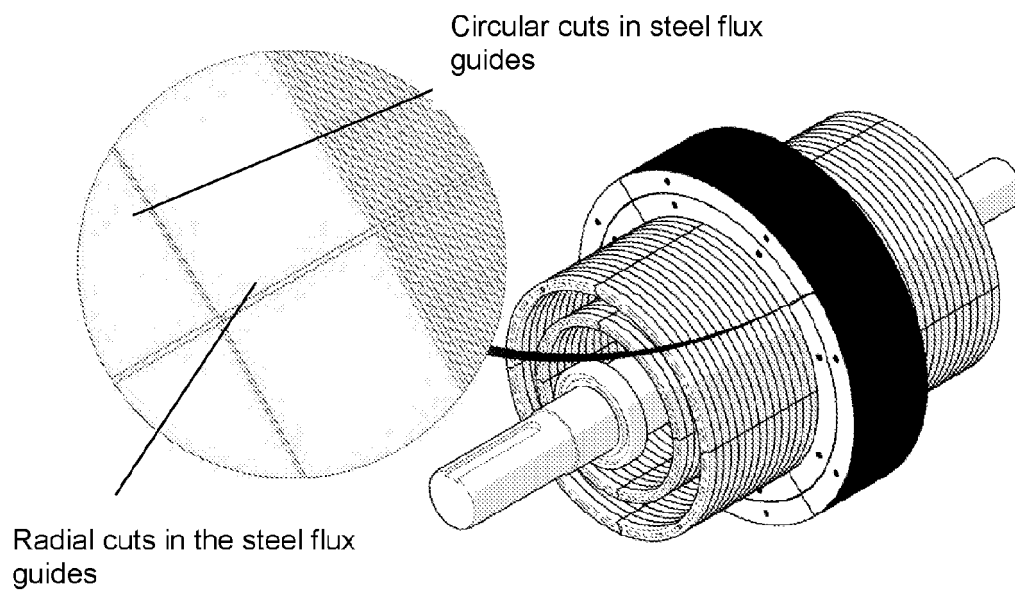


Figure 210

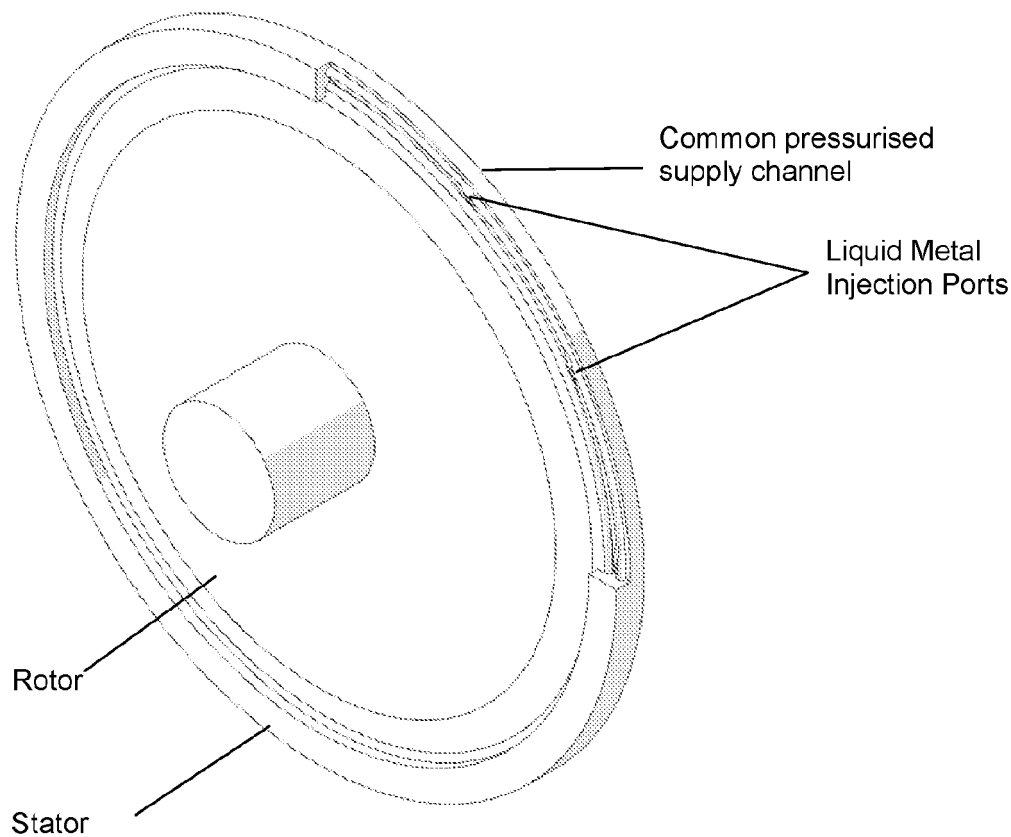


Figure 211

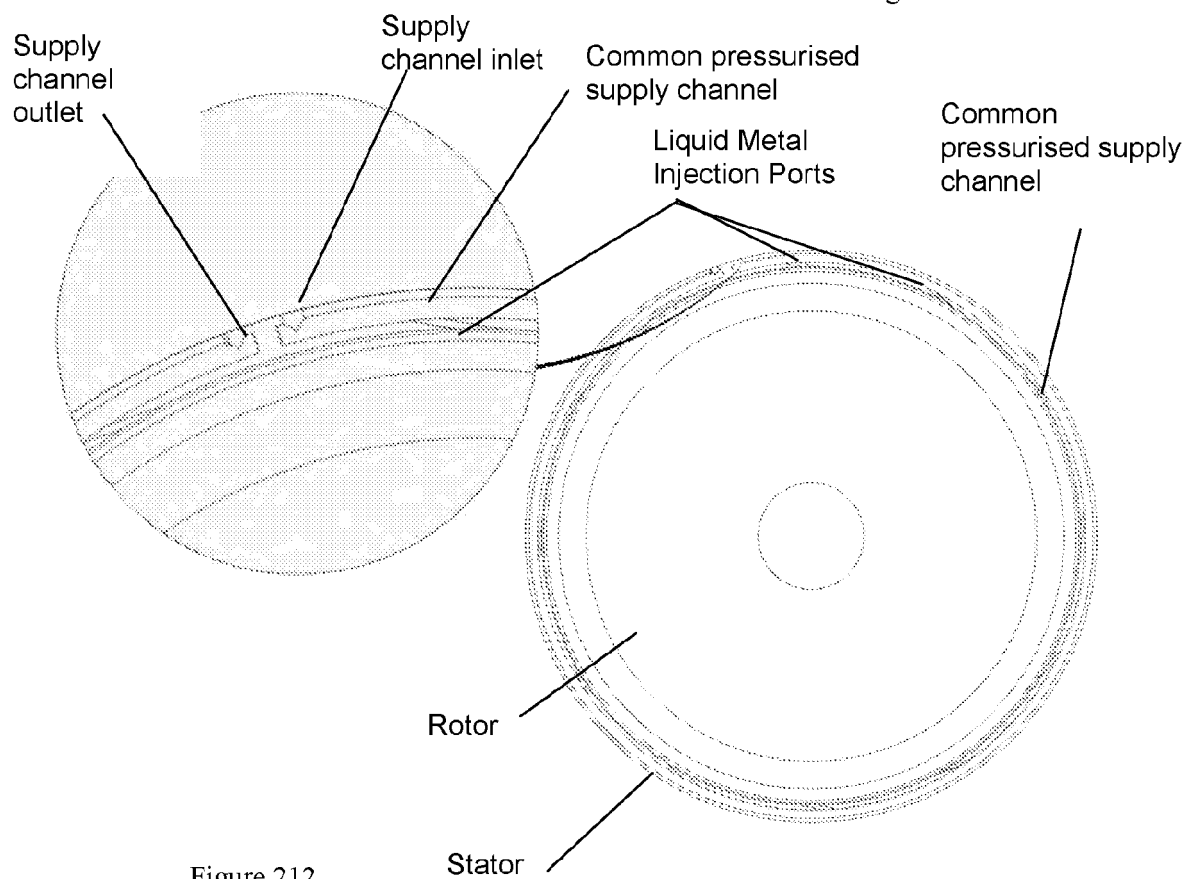


Figure 212

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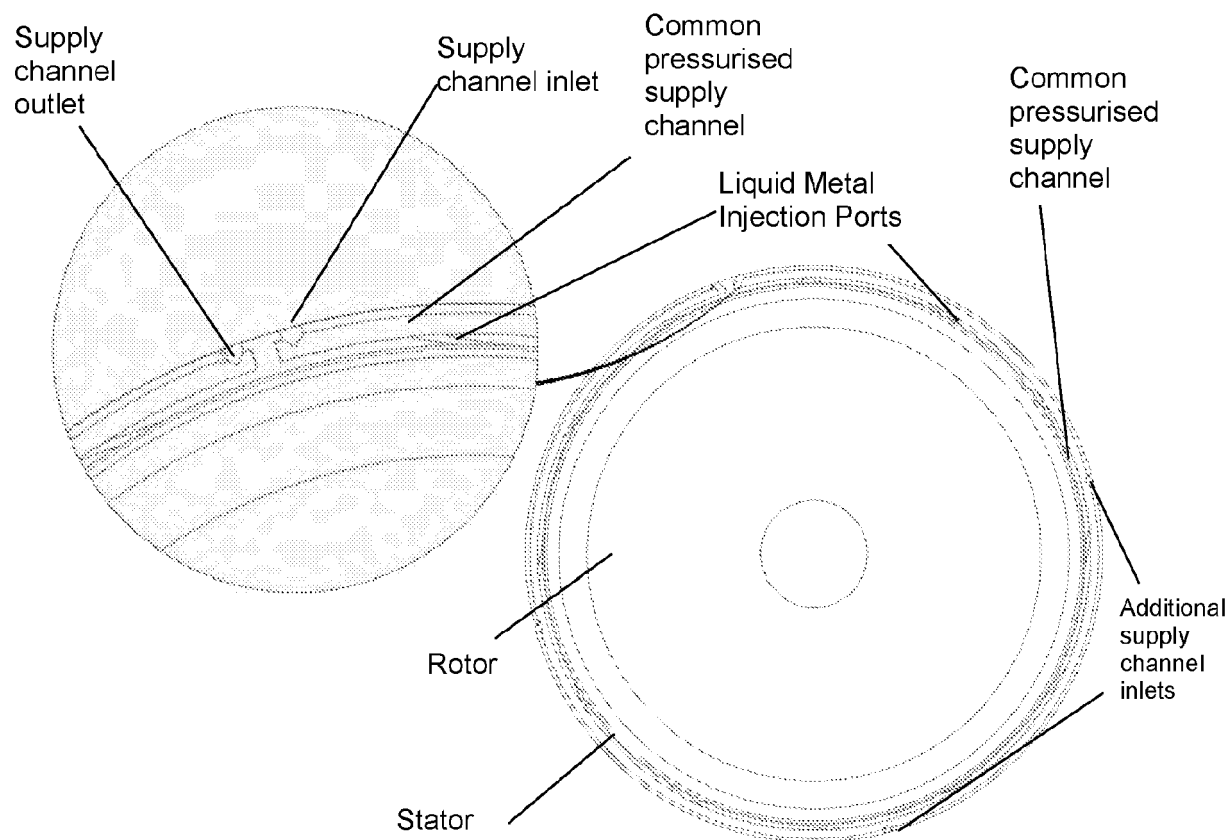


Figure 213

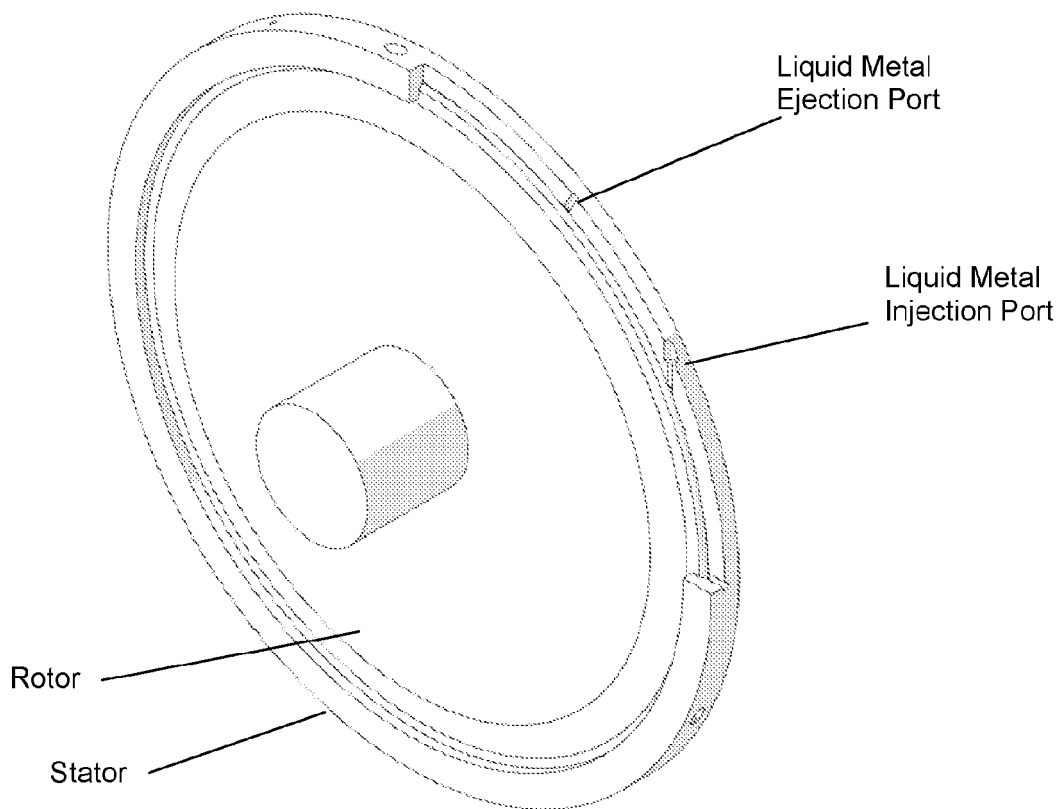


Figure 214

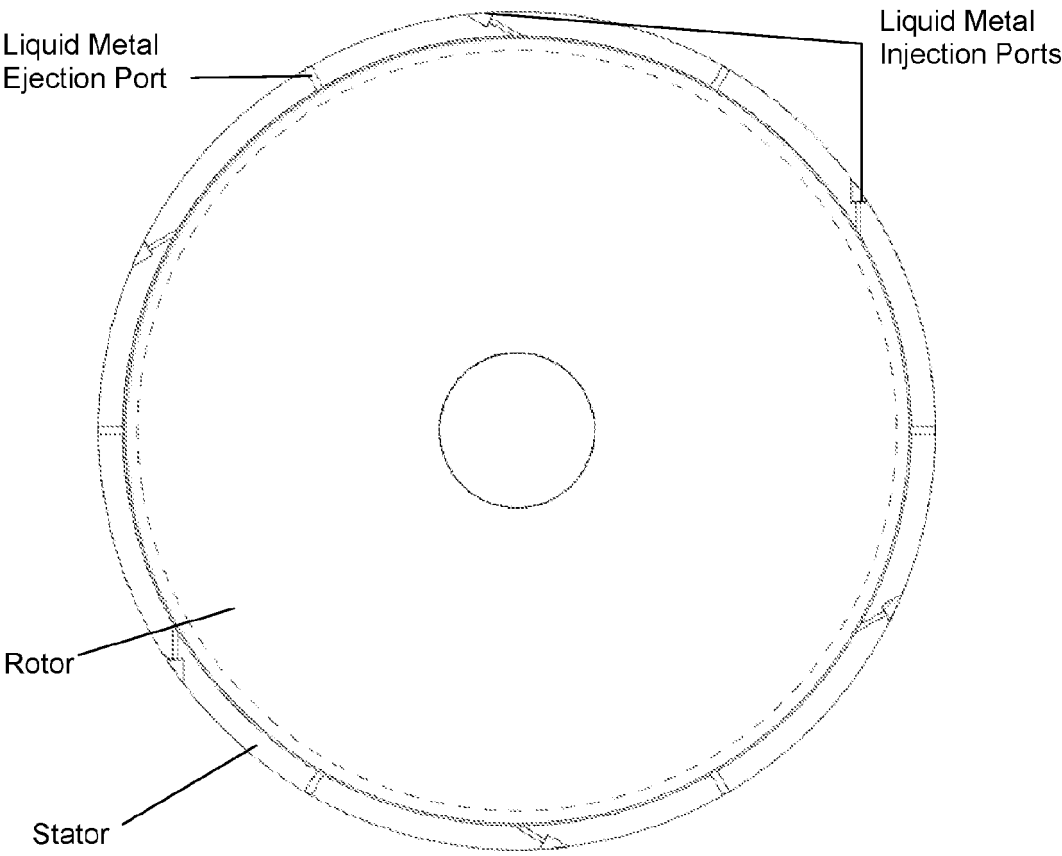


Figure 215

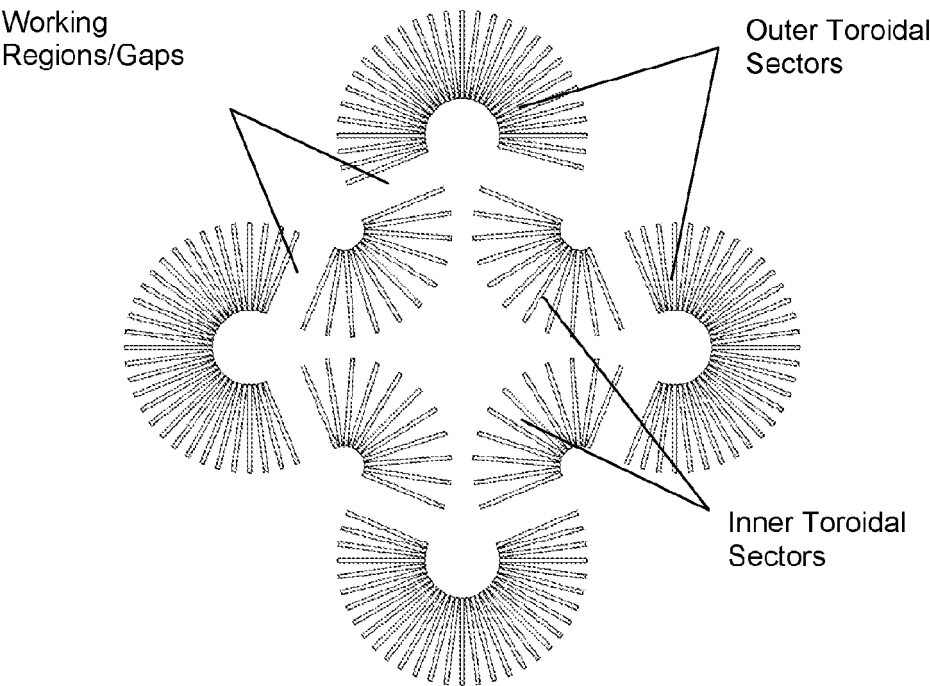


Figure 216

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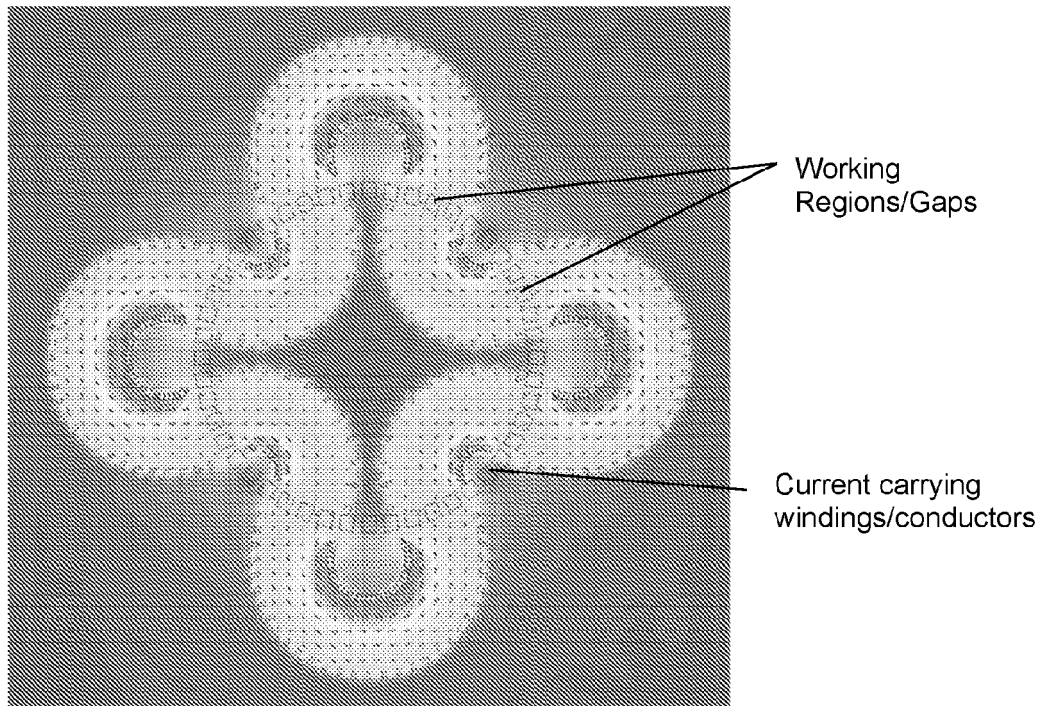


Figure 217

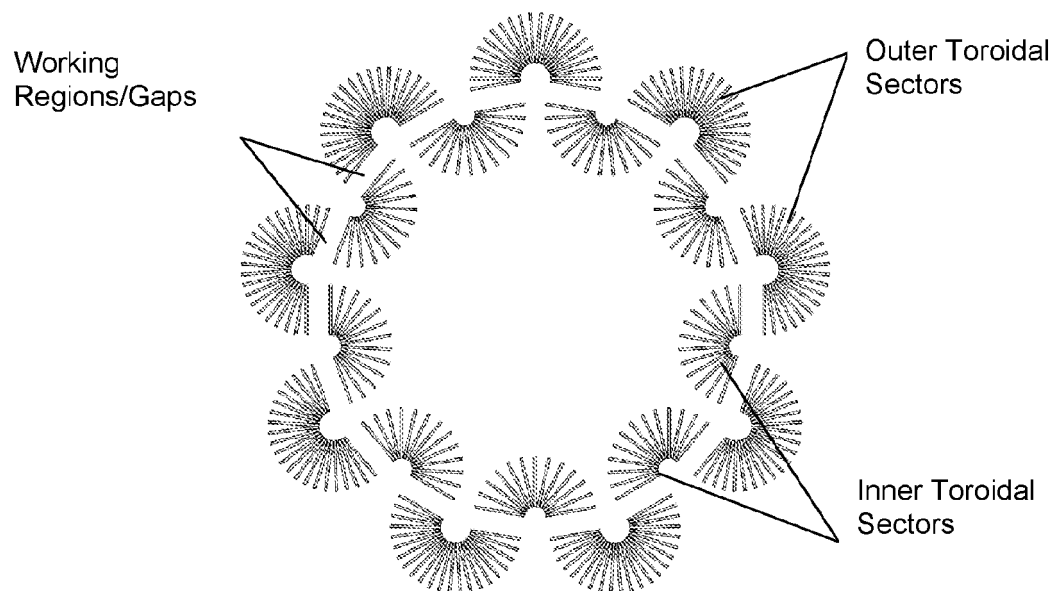


Figure 218

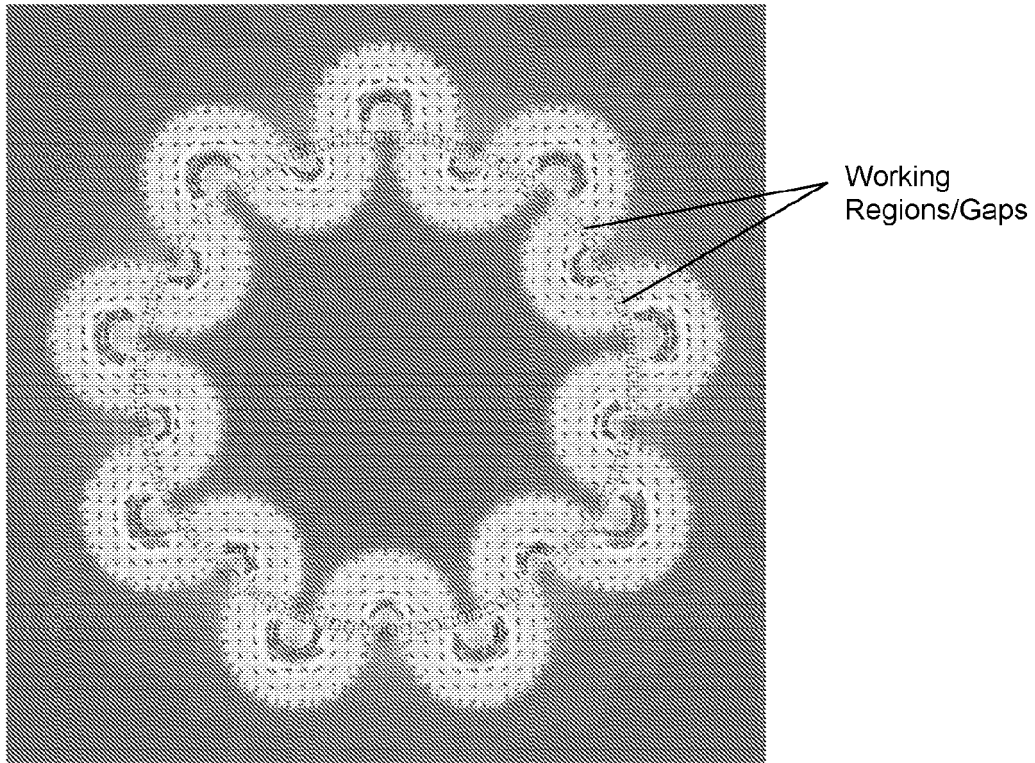


Figure 219

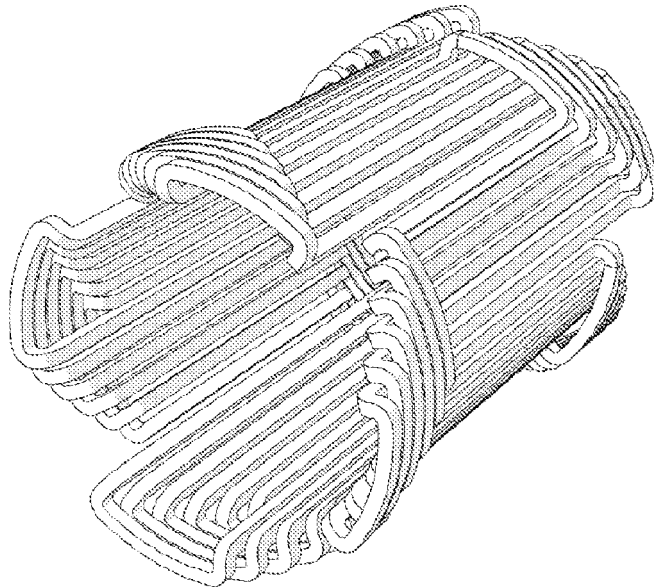


Figure 220

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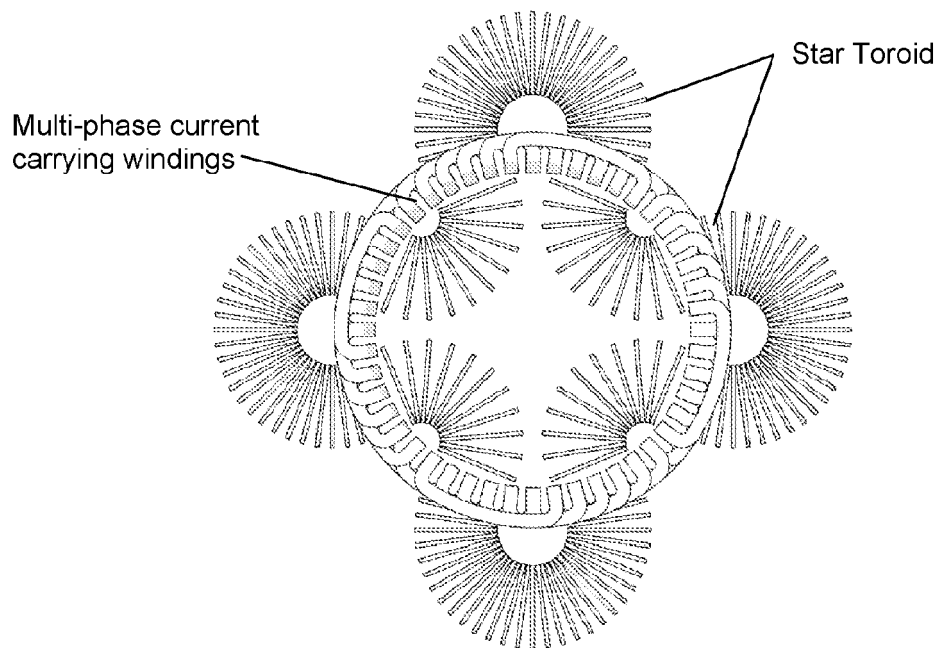


Figure 221

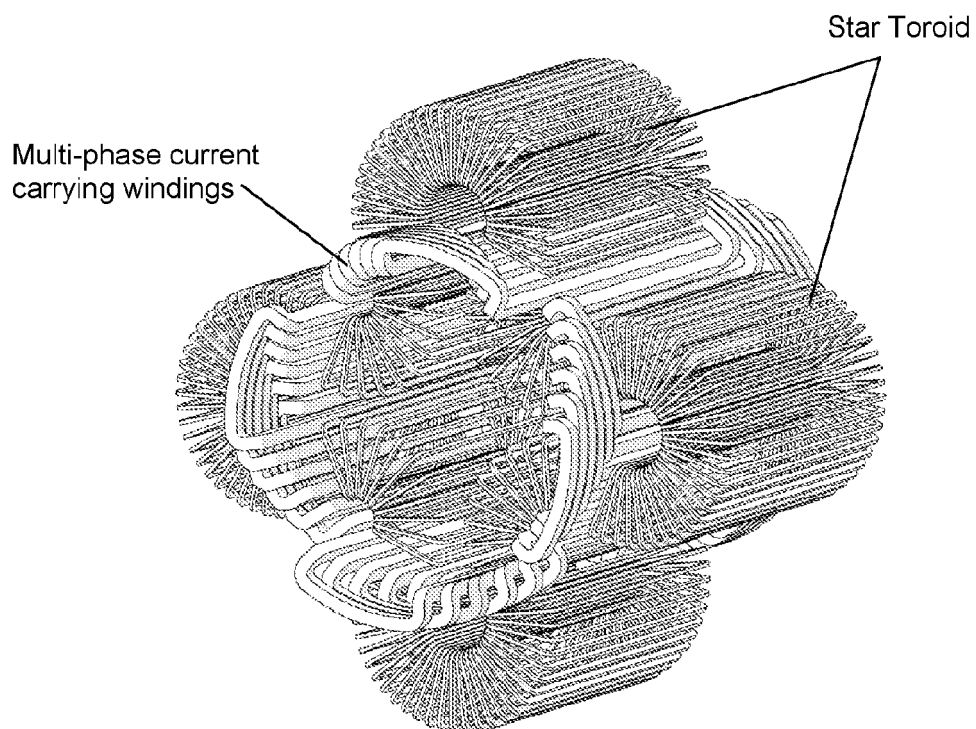


Figure 222

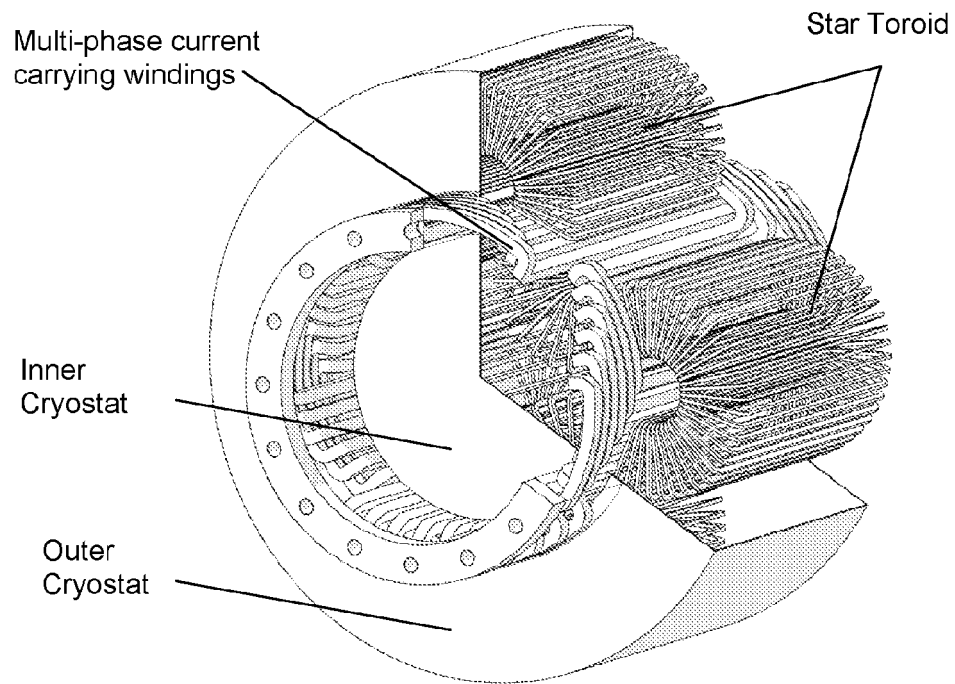


Figure 223

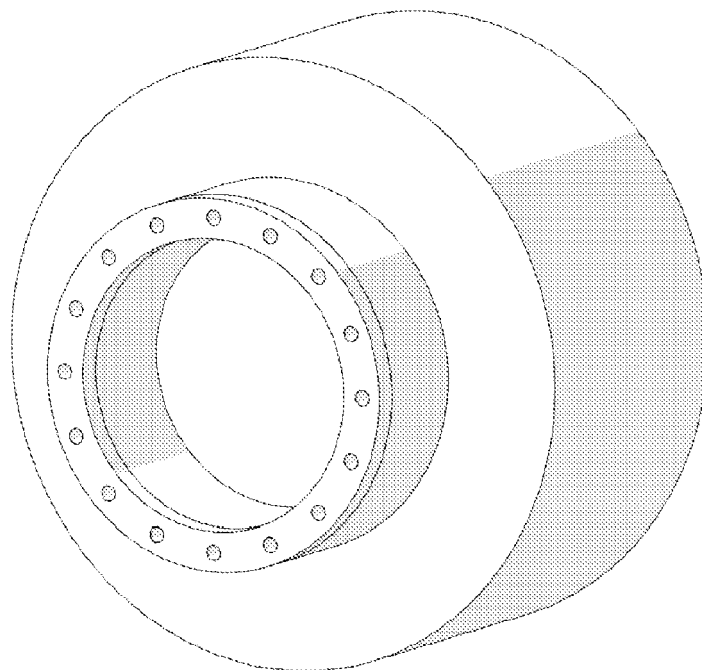


Figure 224

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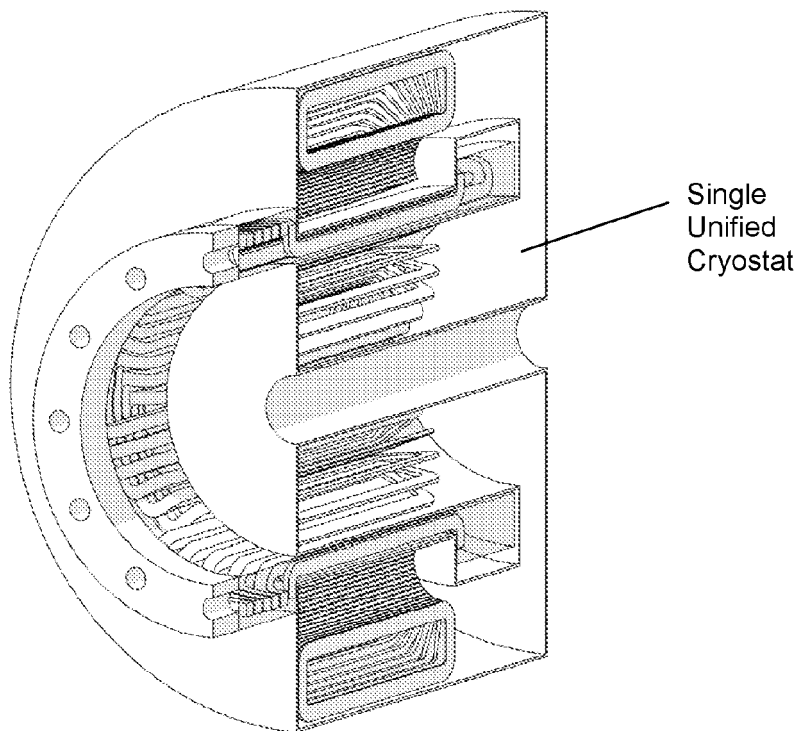


Figure 225

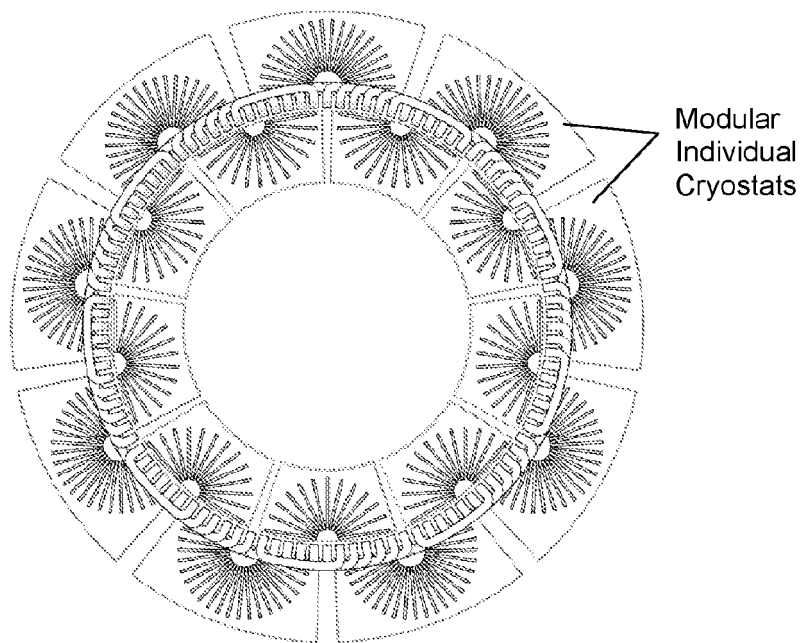


Figure 226

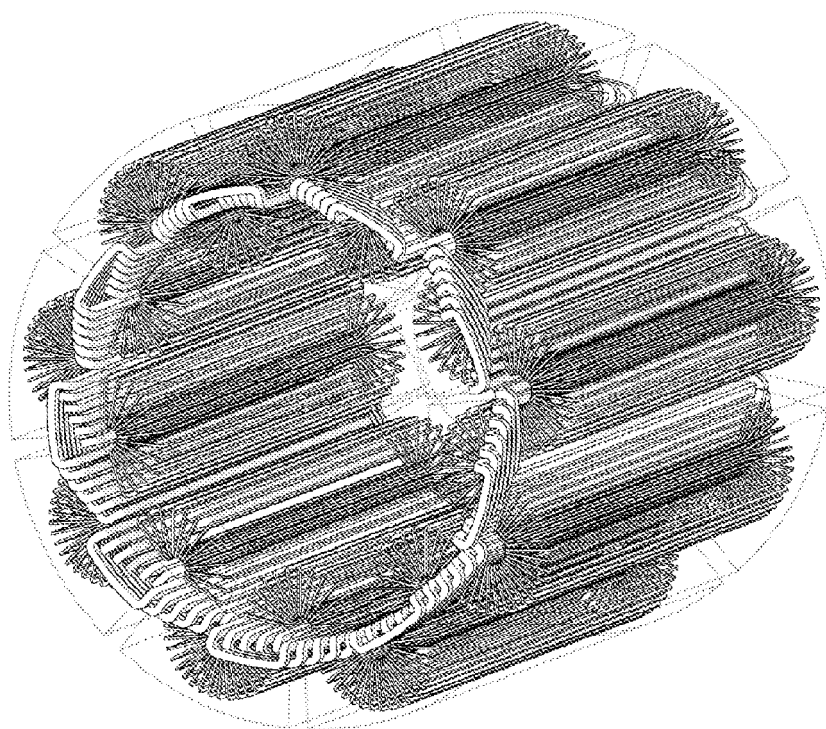


Figure 227

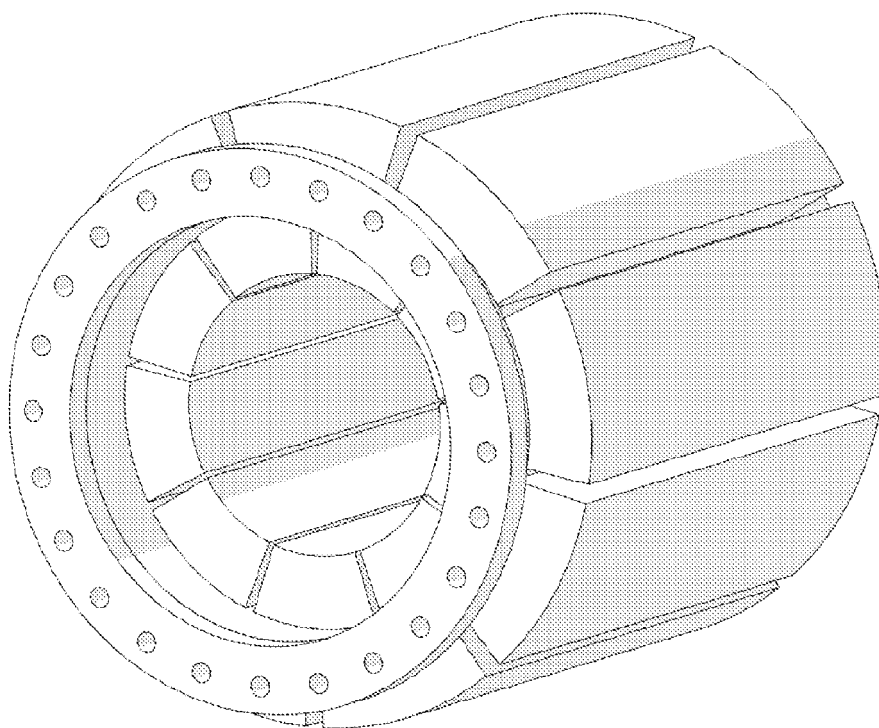


Figure 228

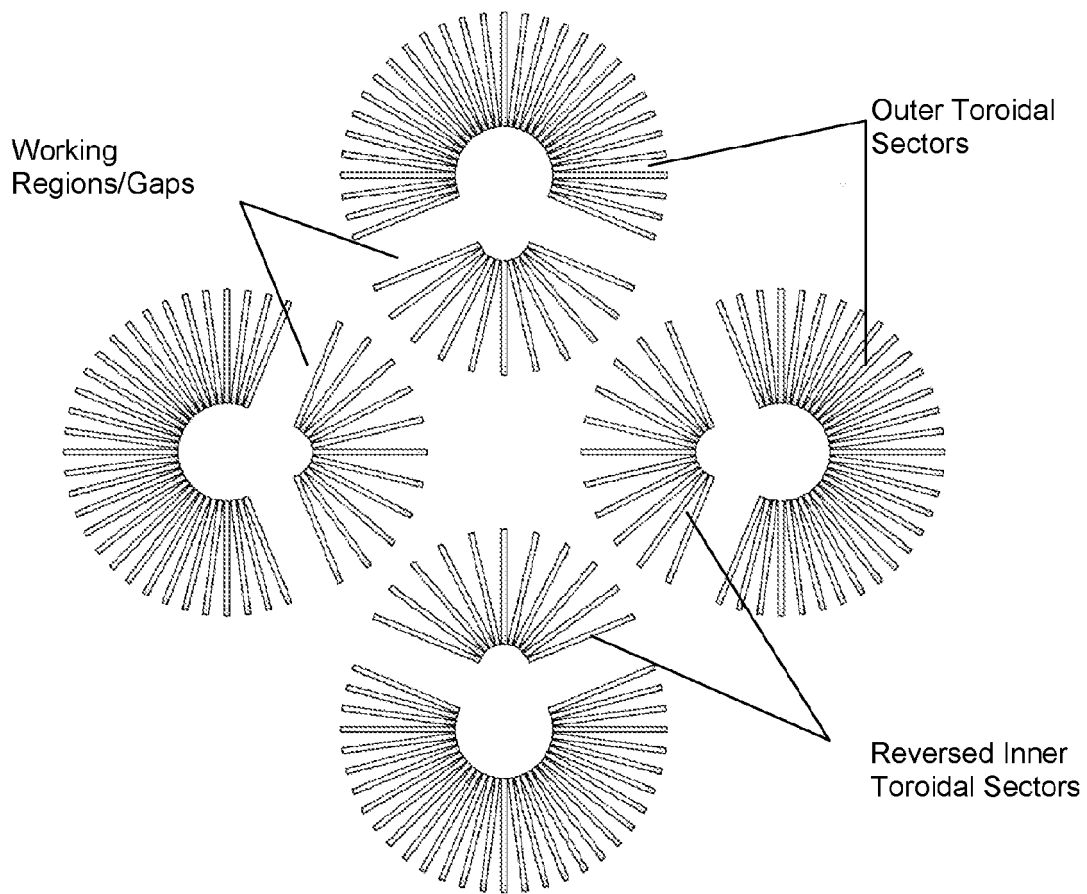


Figure 229

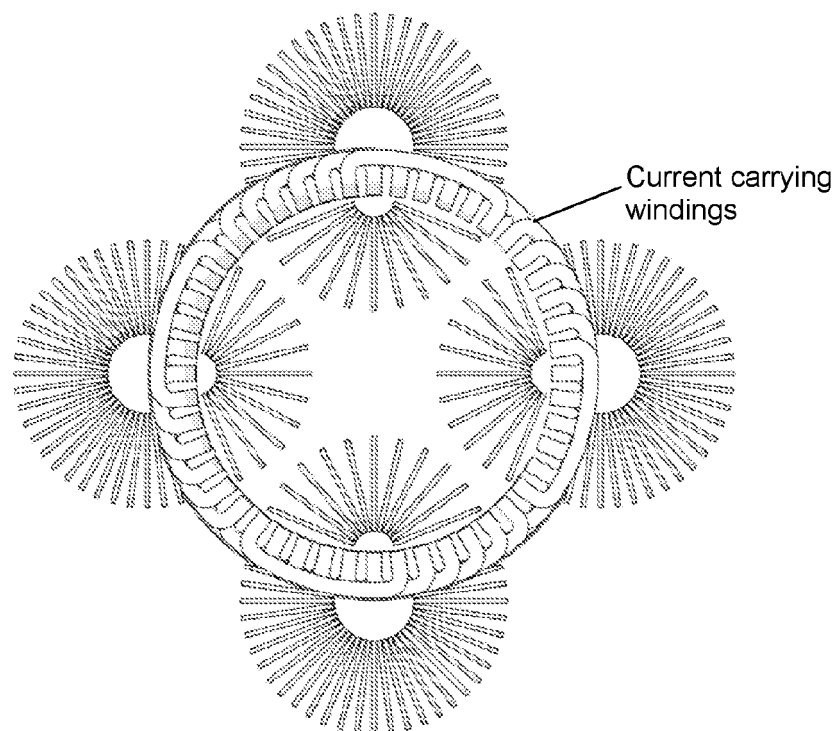


Figure 230

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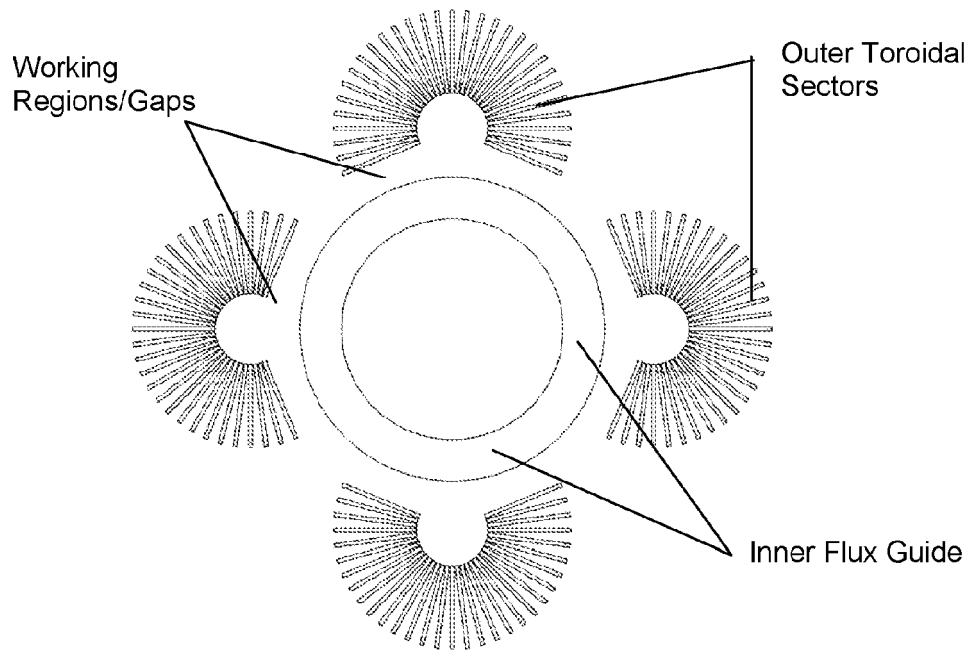


Figure 231

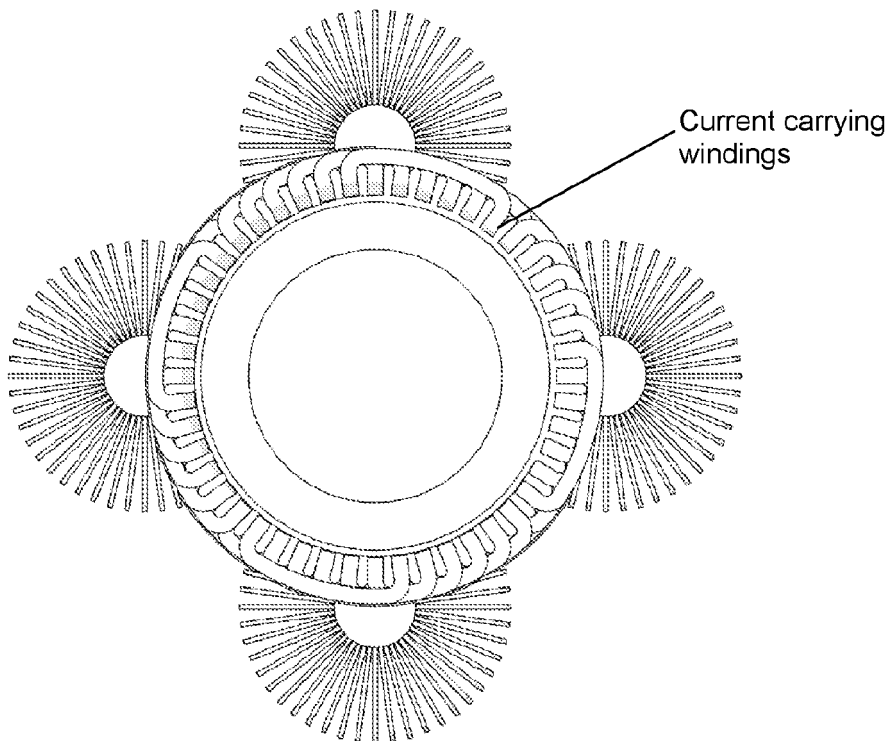


Figure 232

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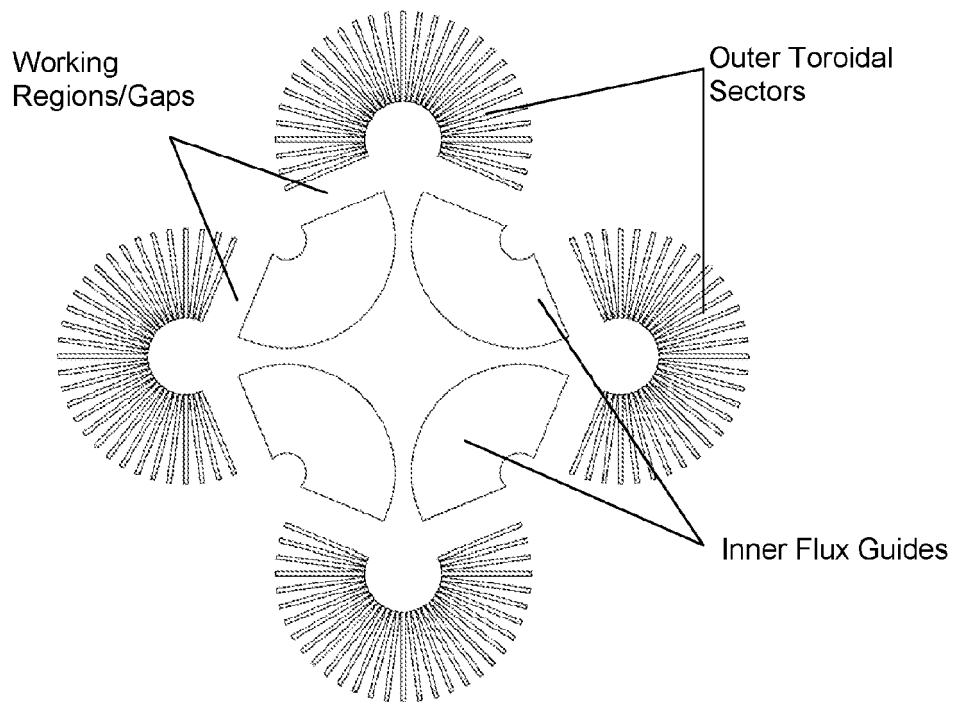


Figure 233

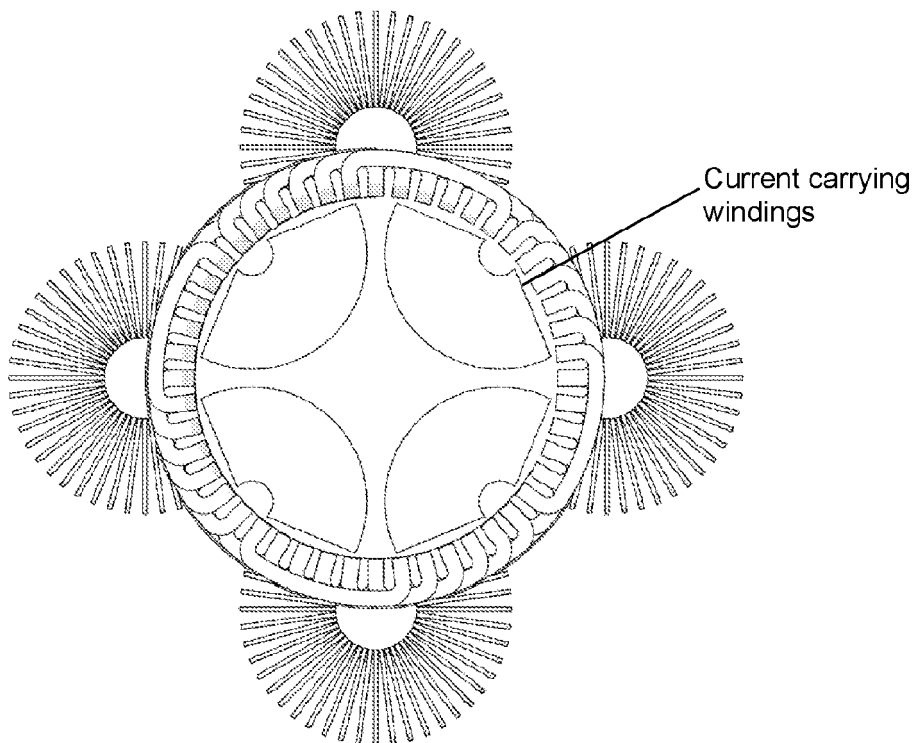


Figure 234

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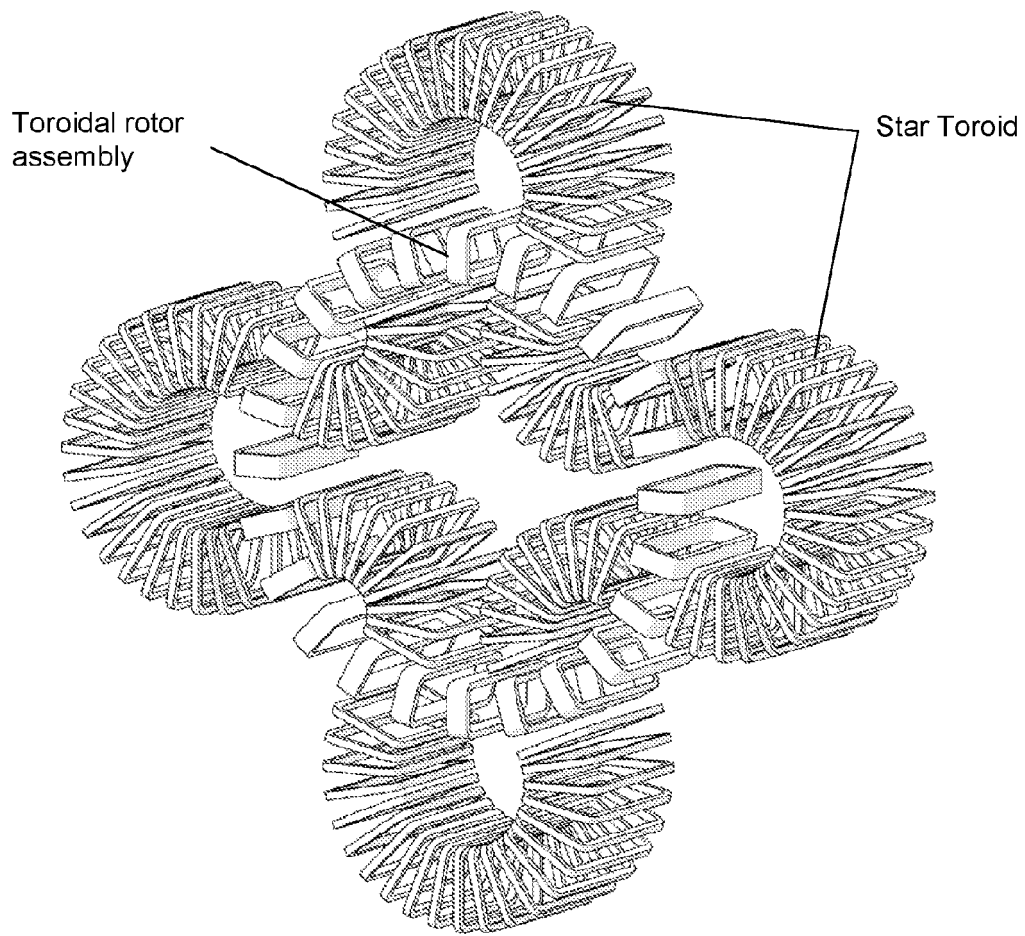


Figure 235

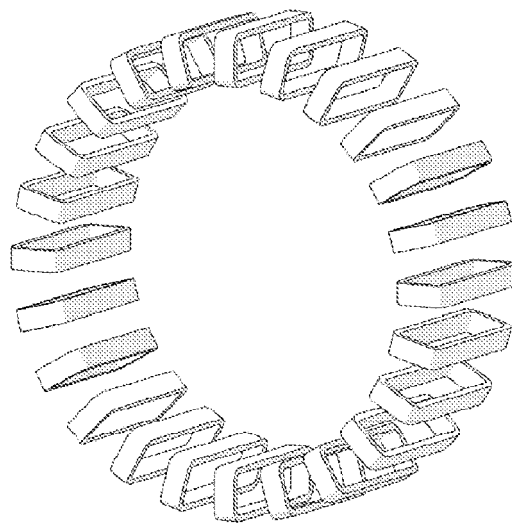


Figure 236

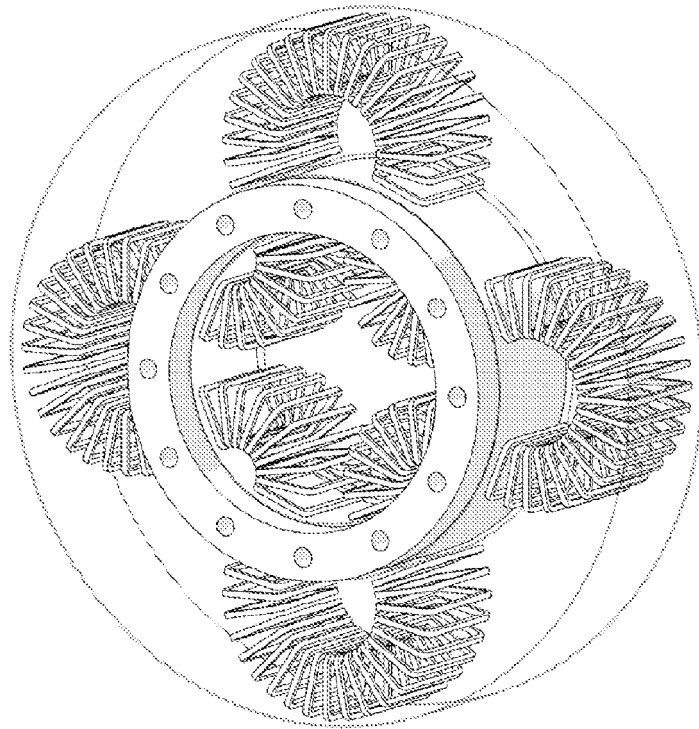


Figure 237

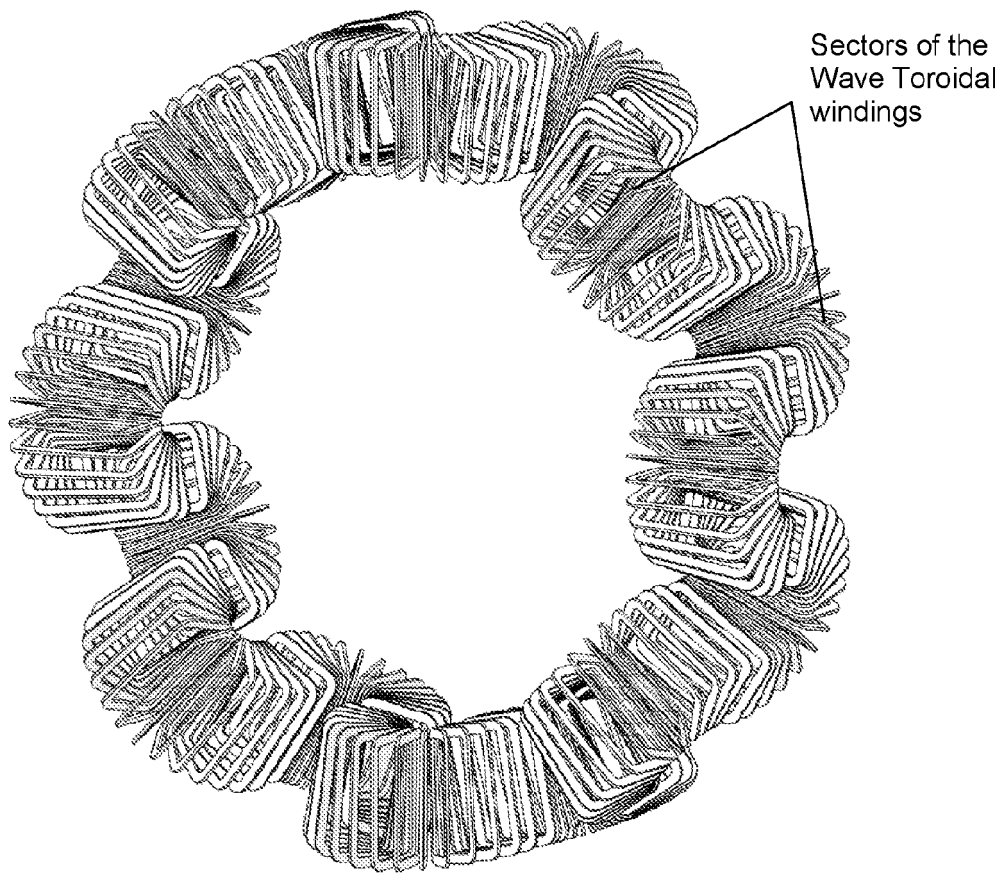


Figure 238

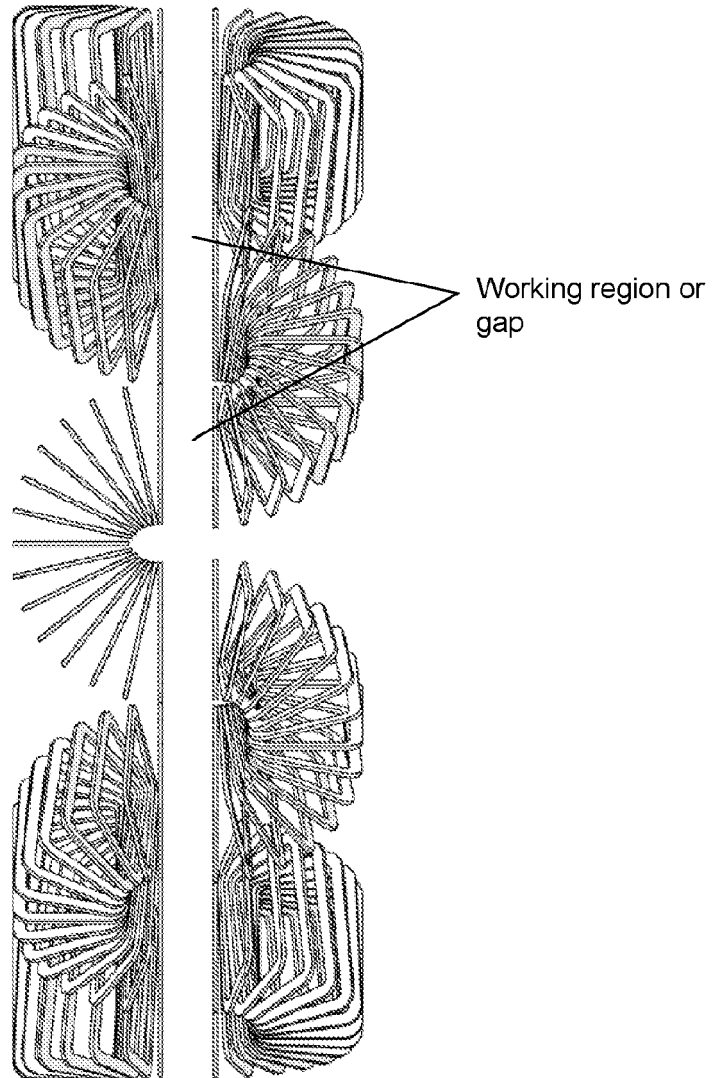


Figure 239

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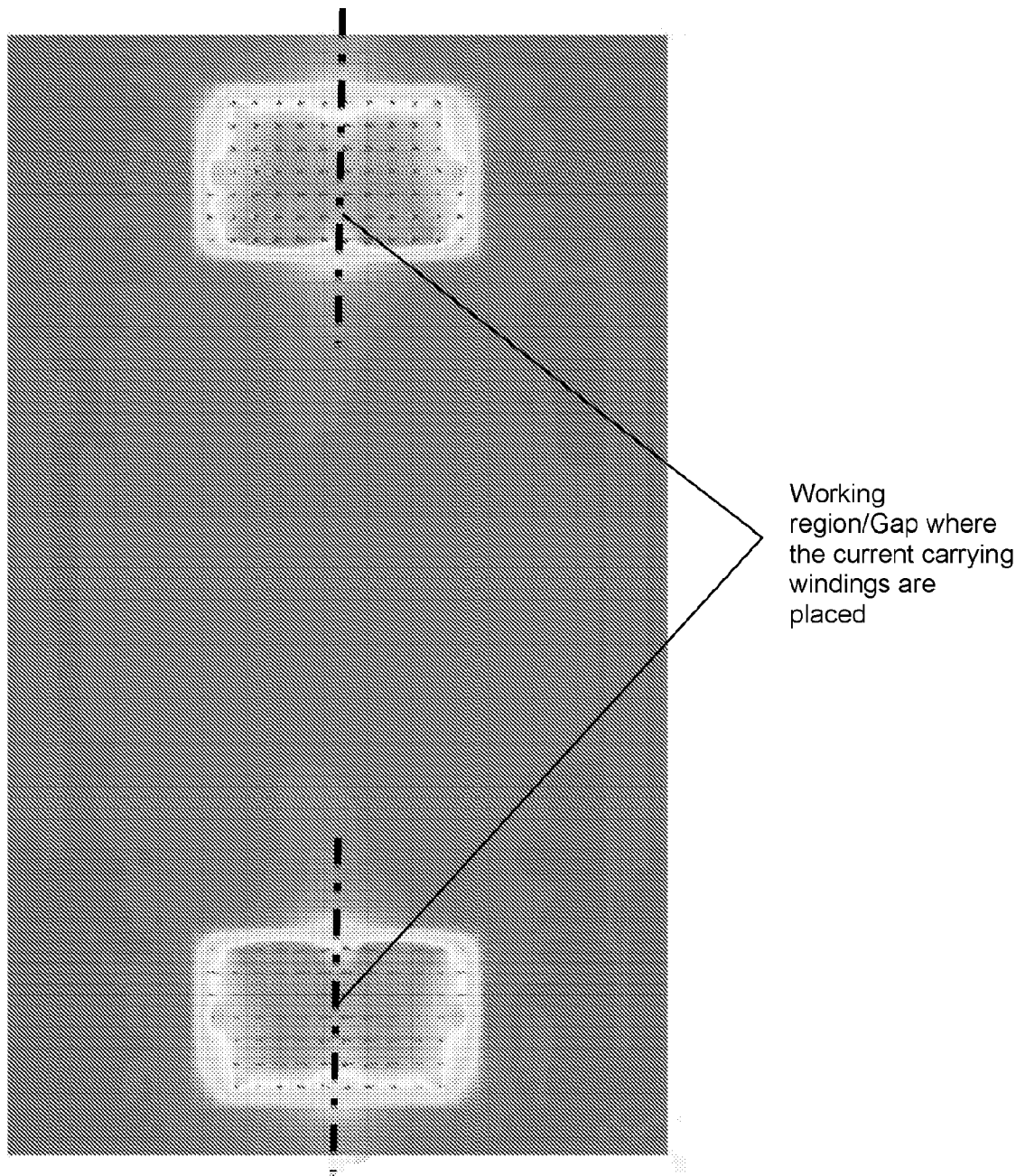


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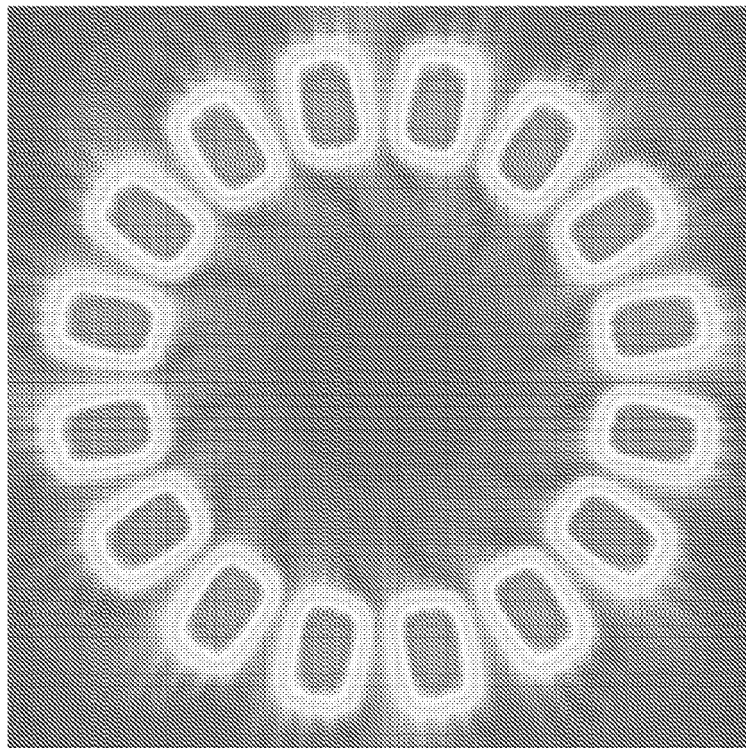


Figure 241

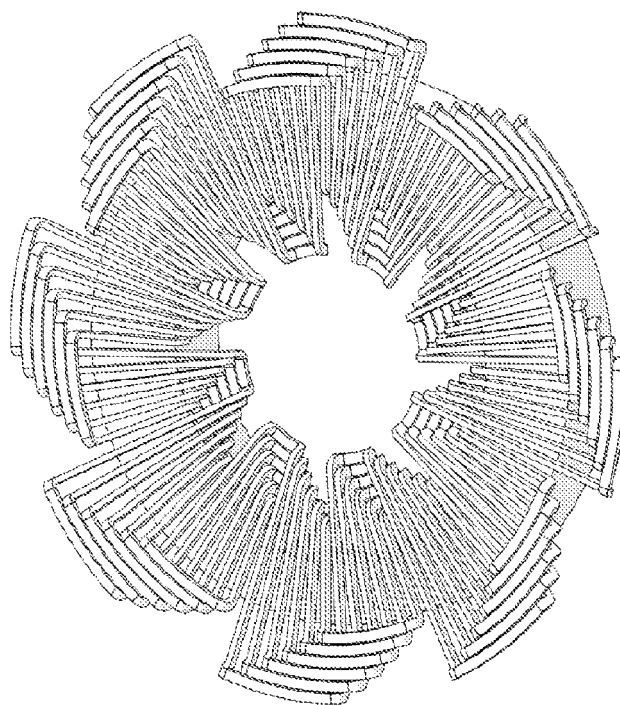


Figure 242

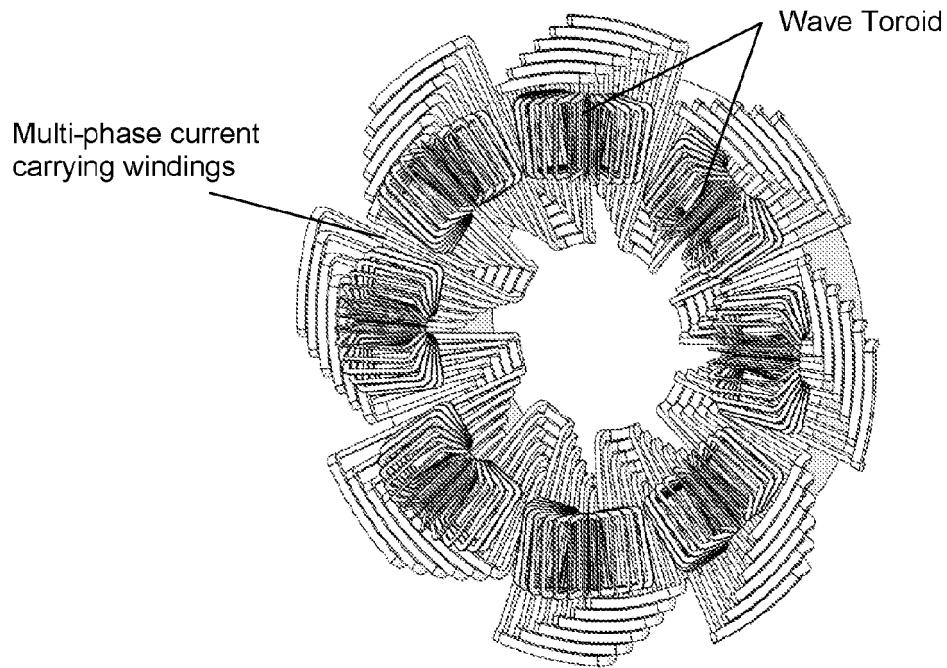


Figure 243

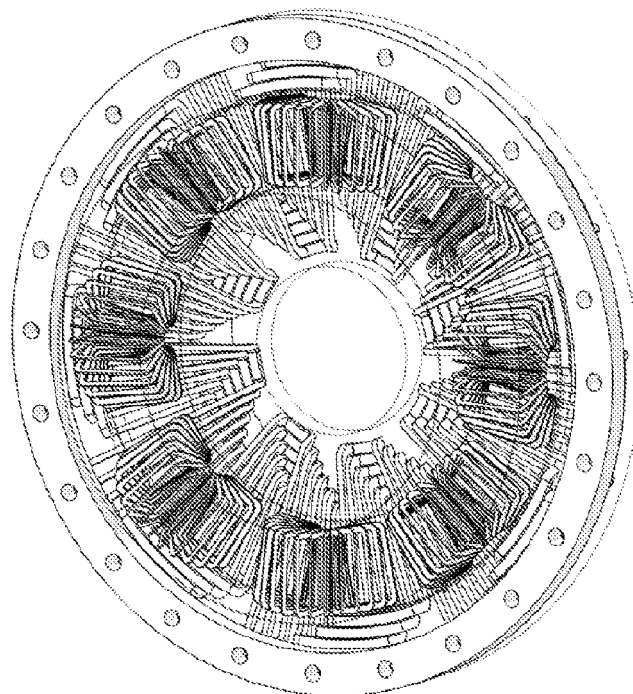


Figure 244

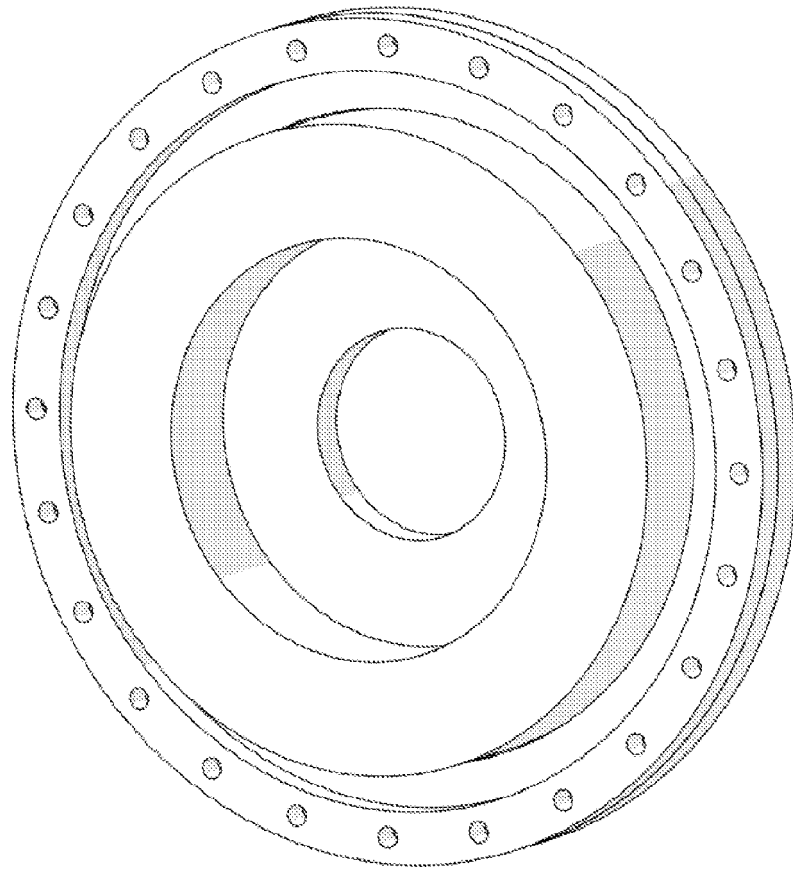


Figure 245

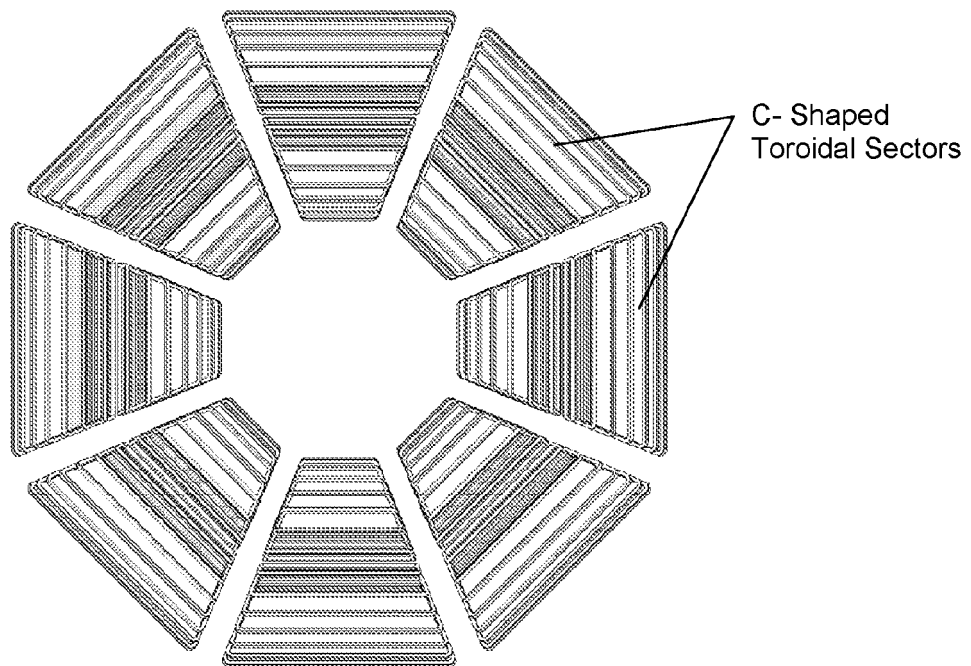


Figure 246

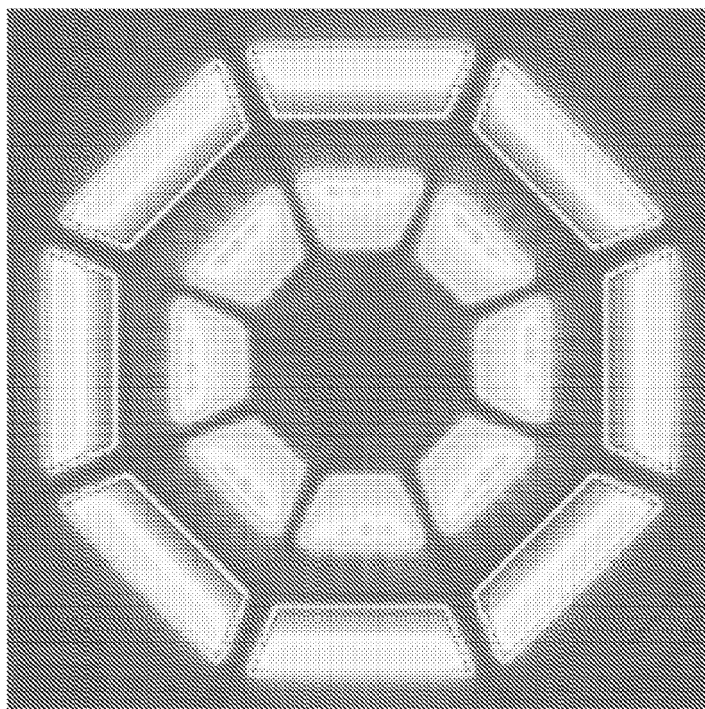


Figure 247

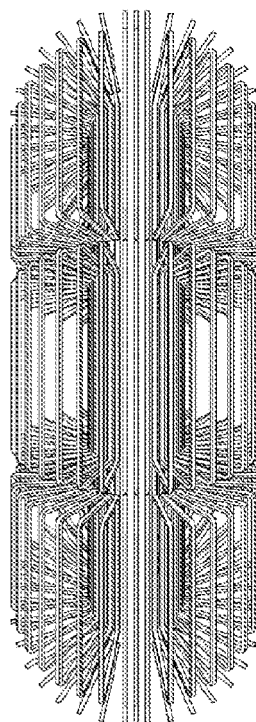


Figure 248

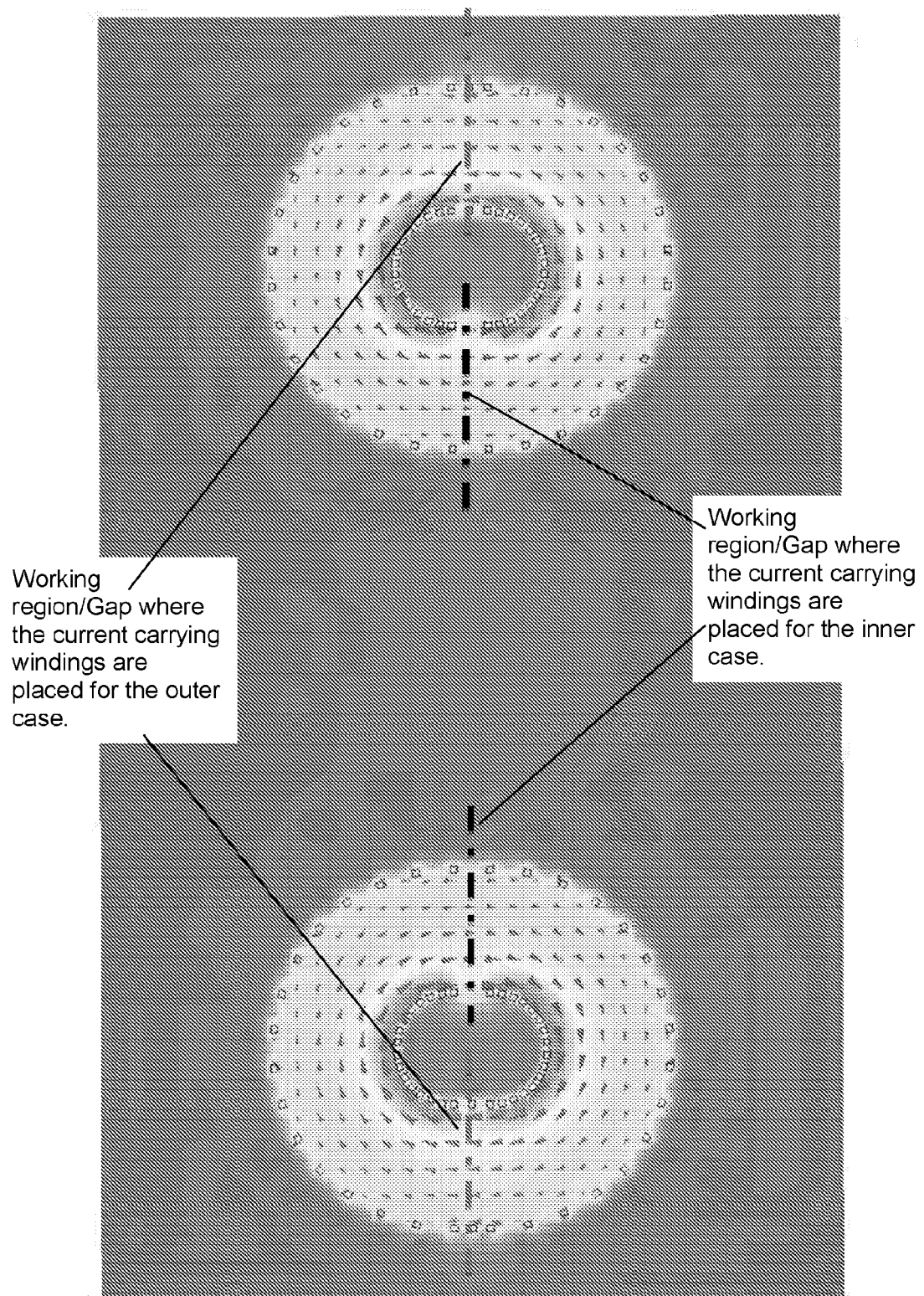


Figure 249

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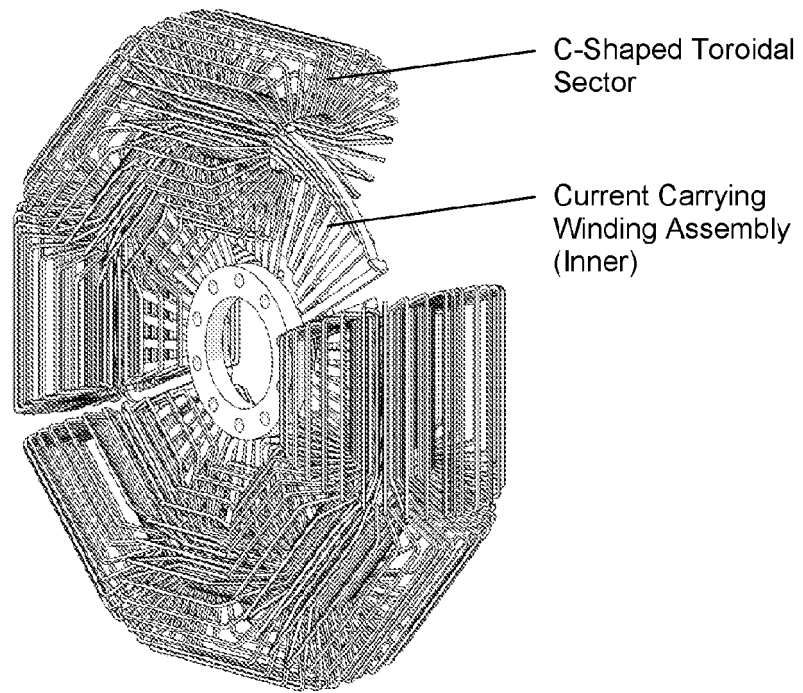


Figure 250

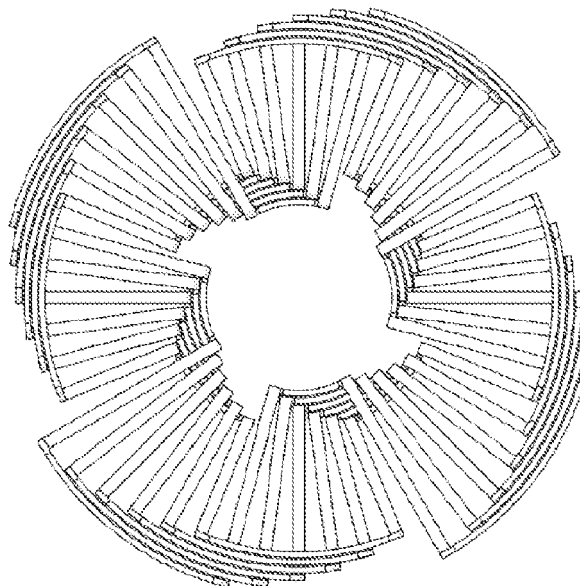


Figure 251

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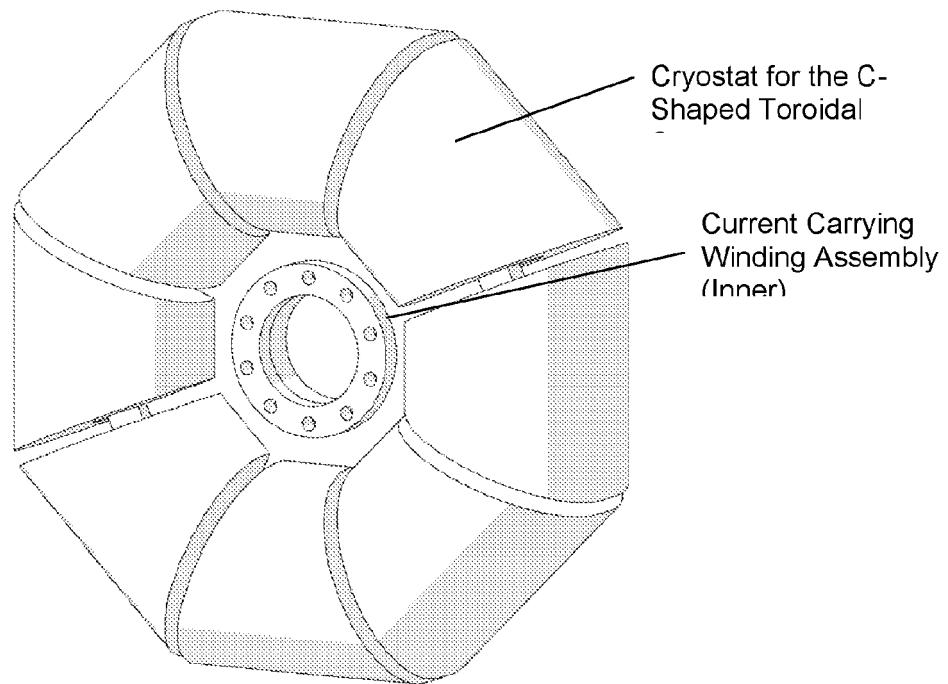


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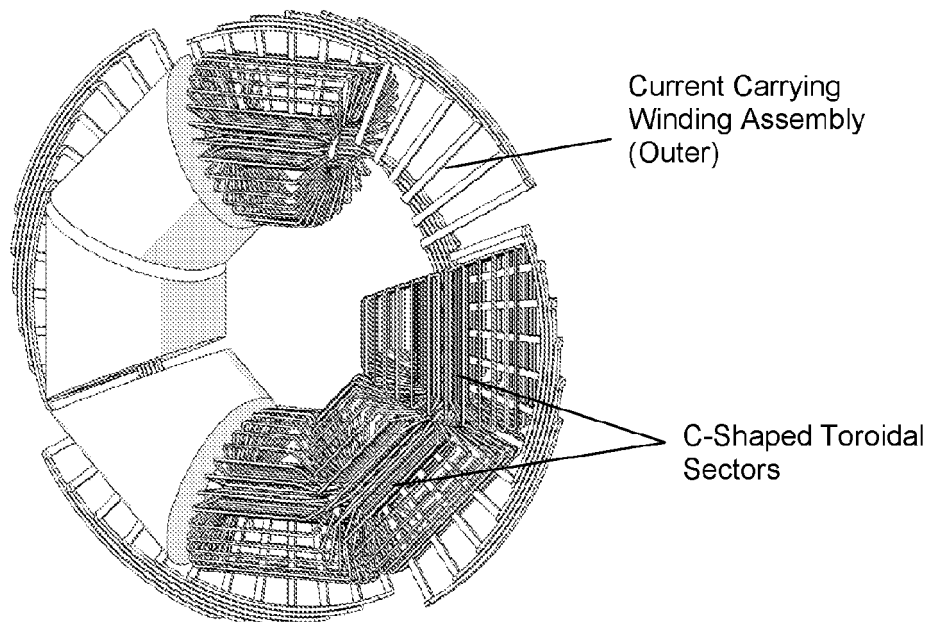


Figure 253

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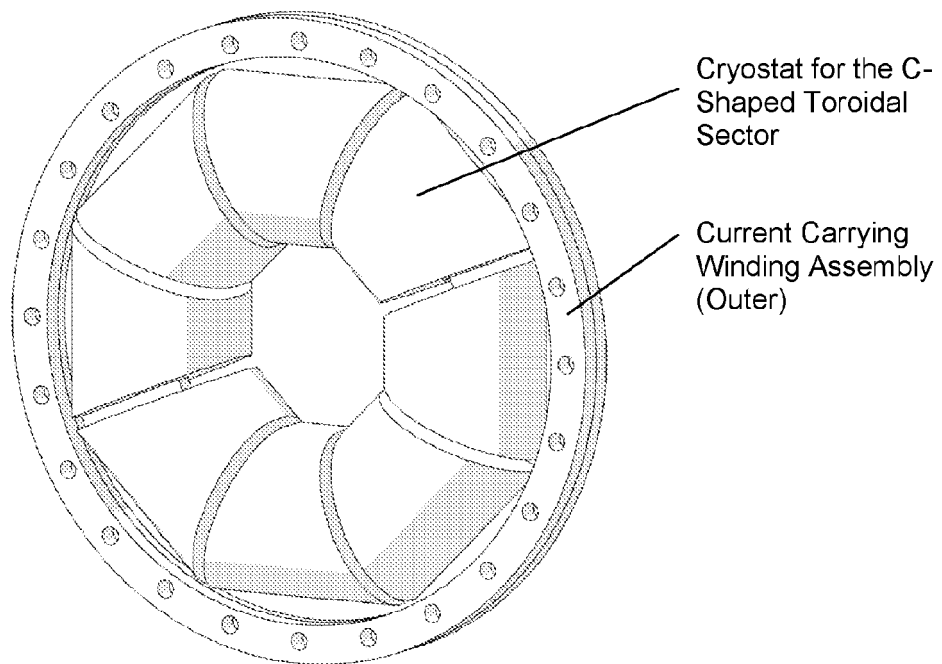


Figure 254

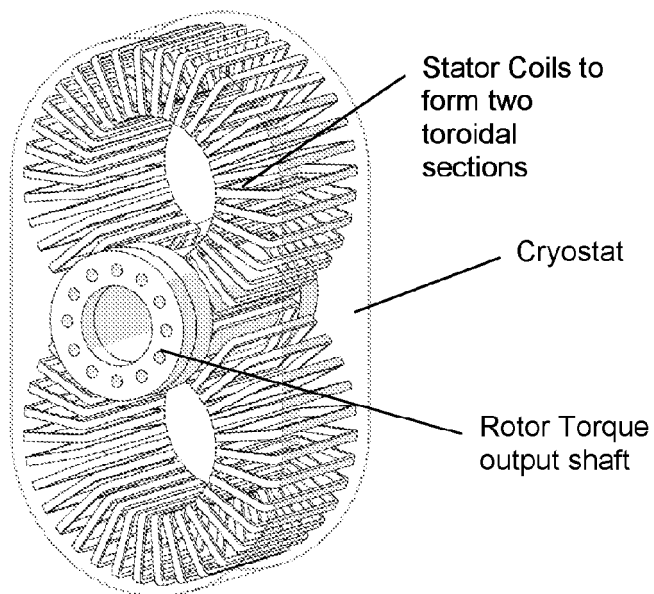


Figure 255

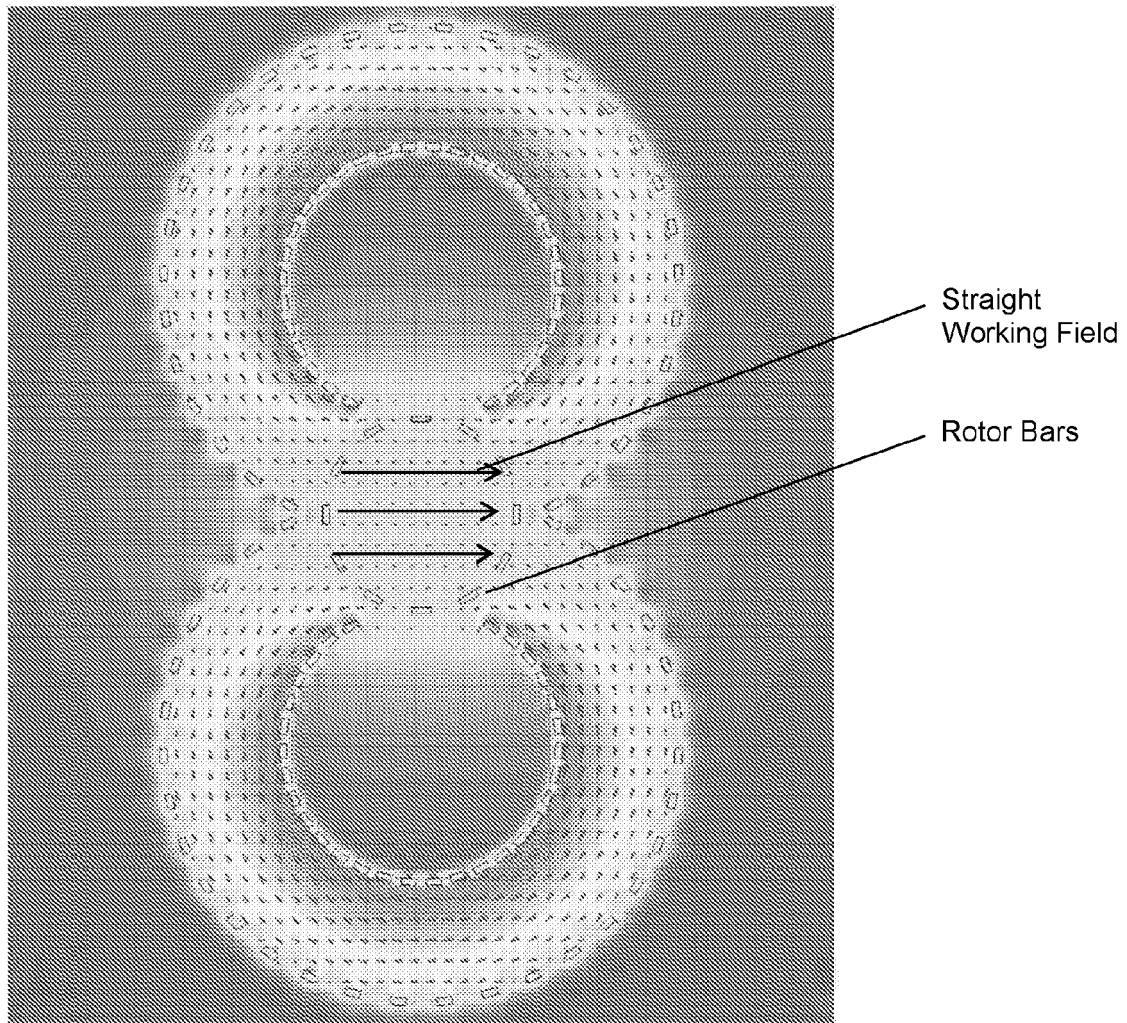


Figure 256

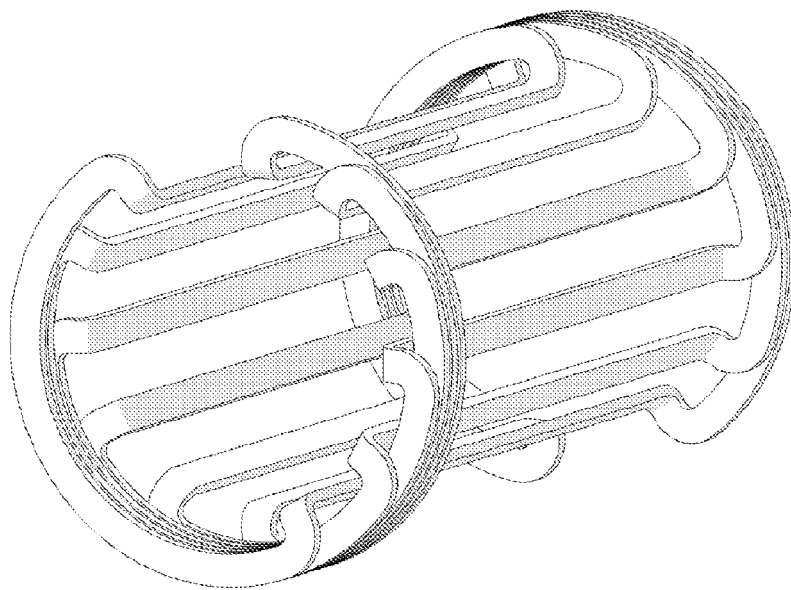


Figure 257

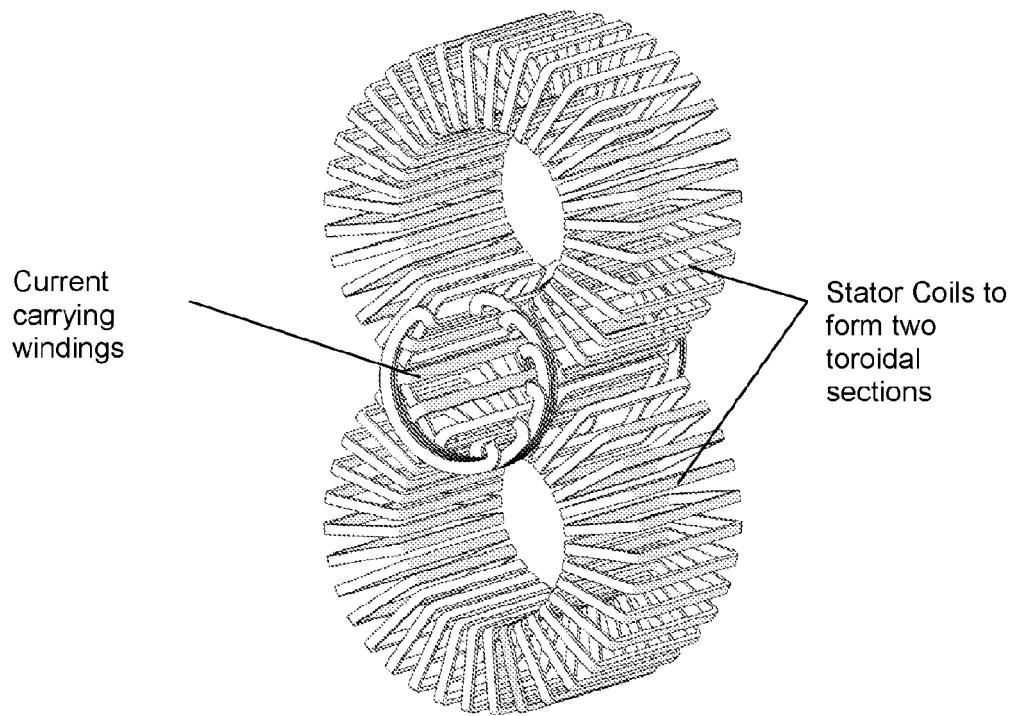


Figure 258

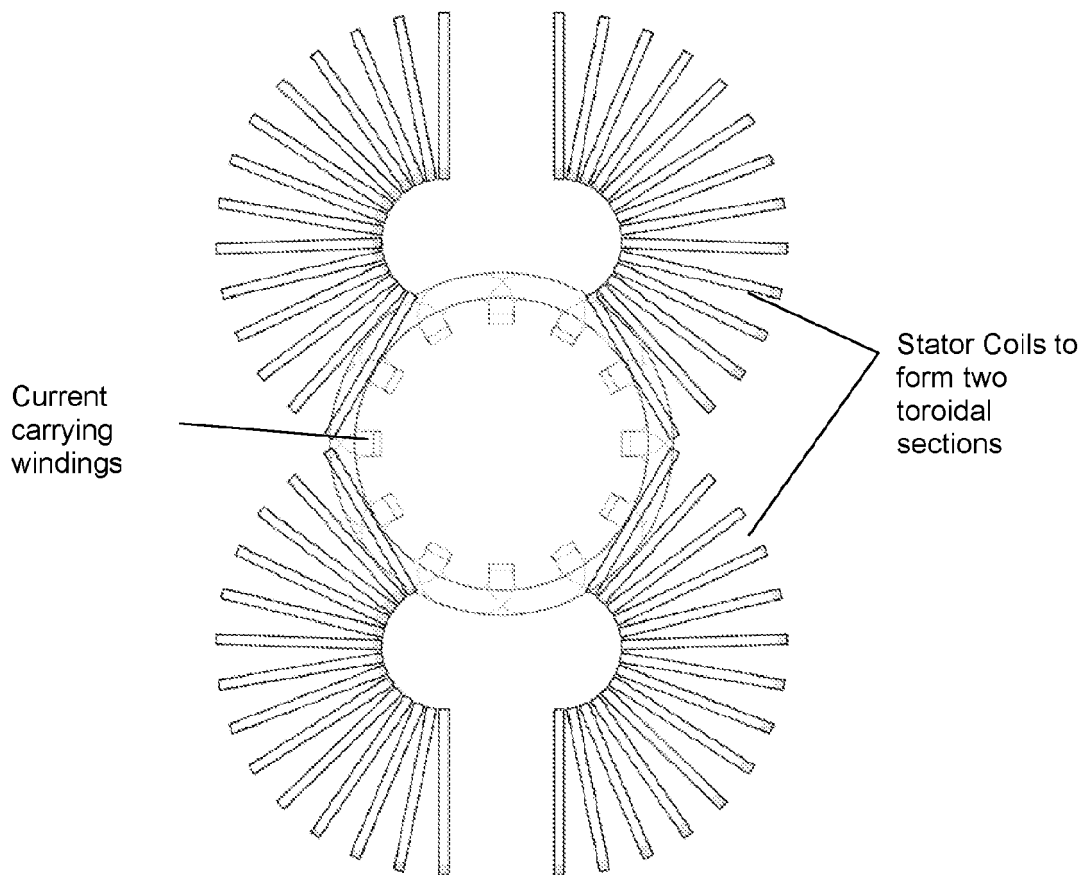


Figure 259

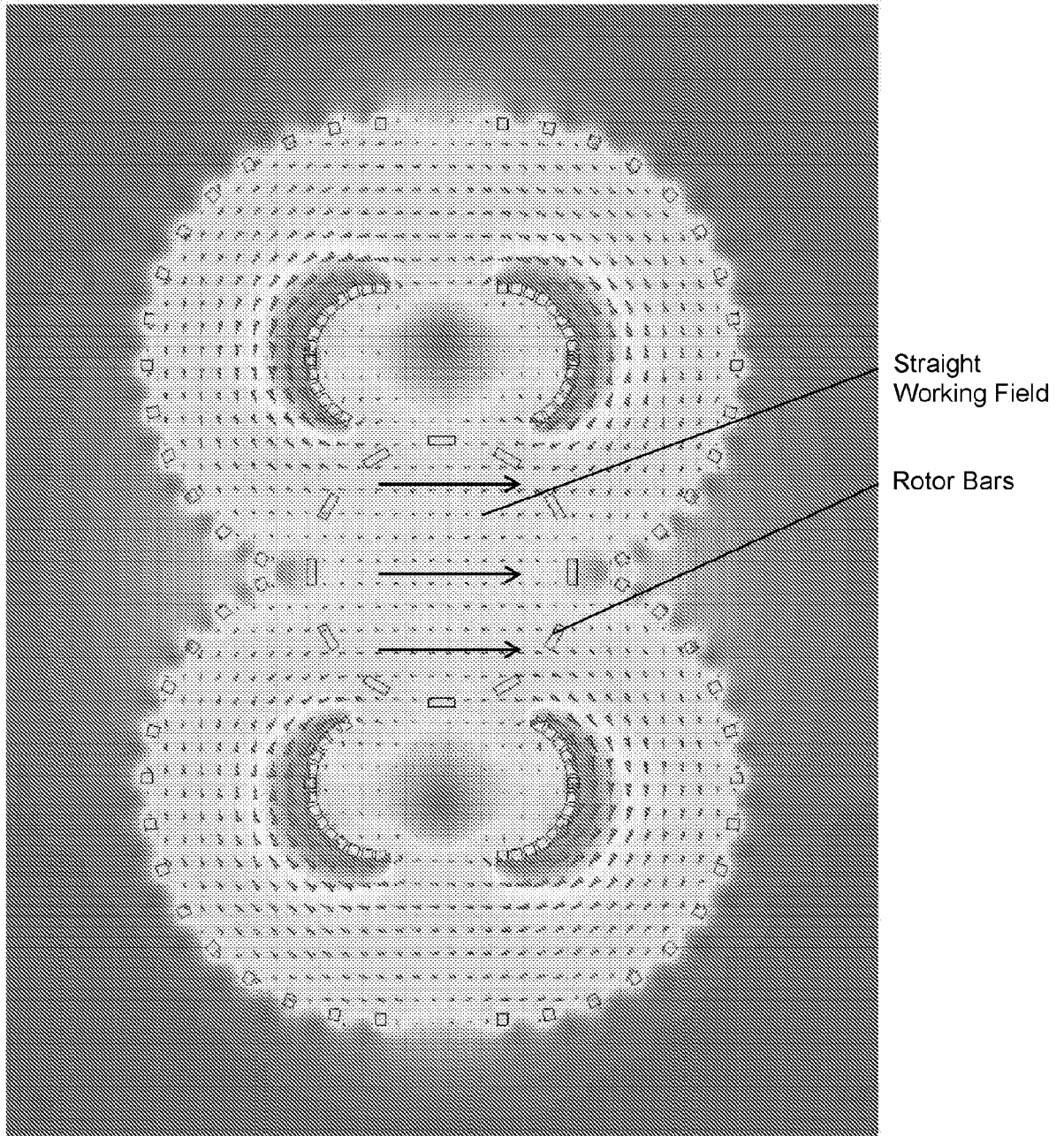


Figure 260

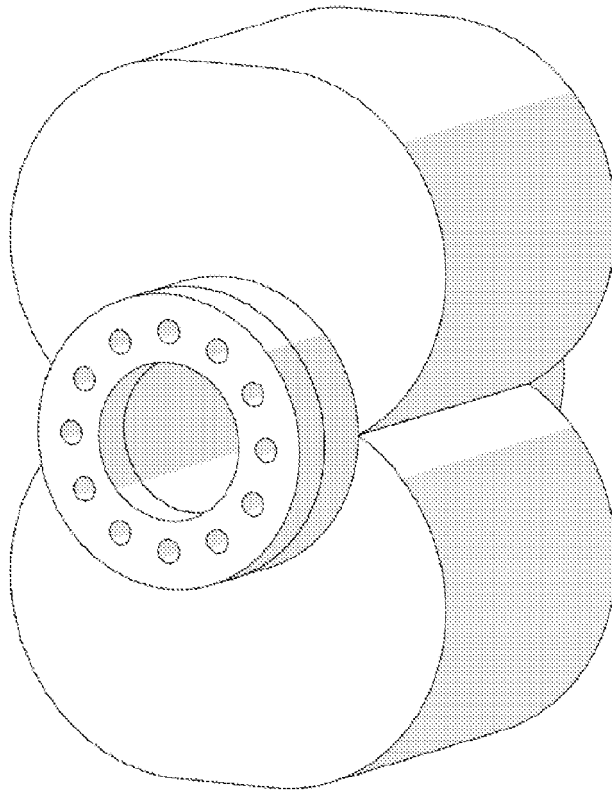


Figure 261

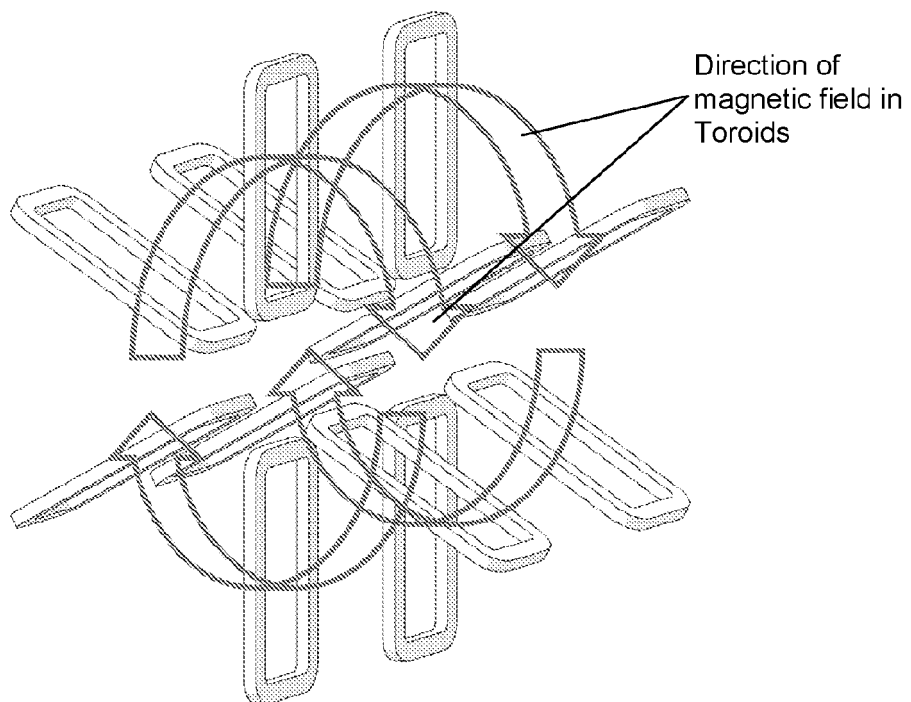


Figure 262

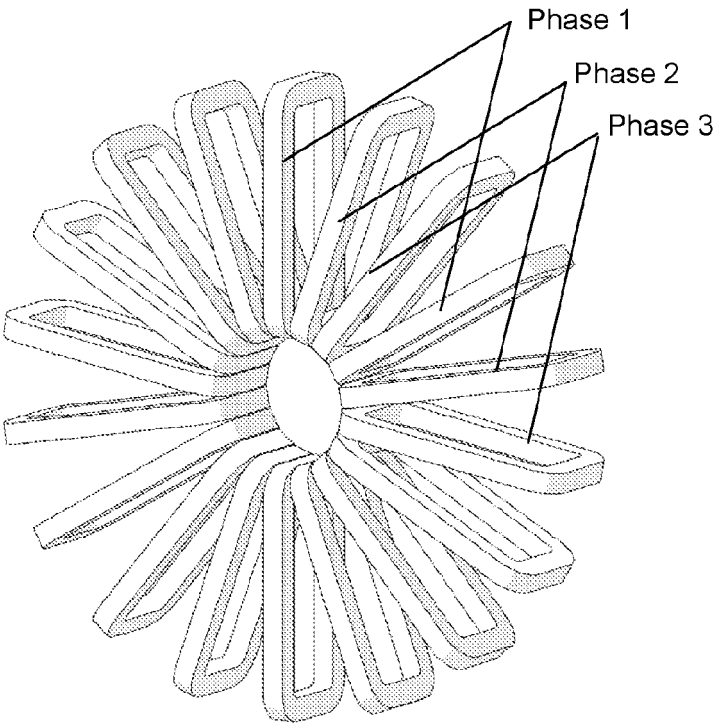


Figure 263

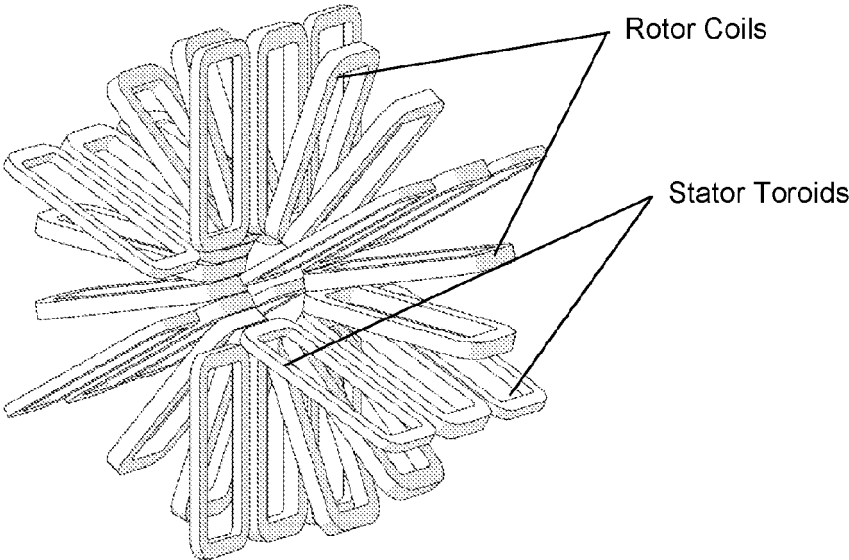


Figure 264

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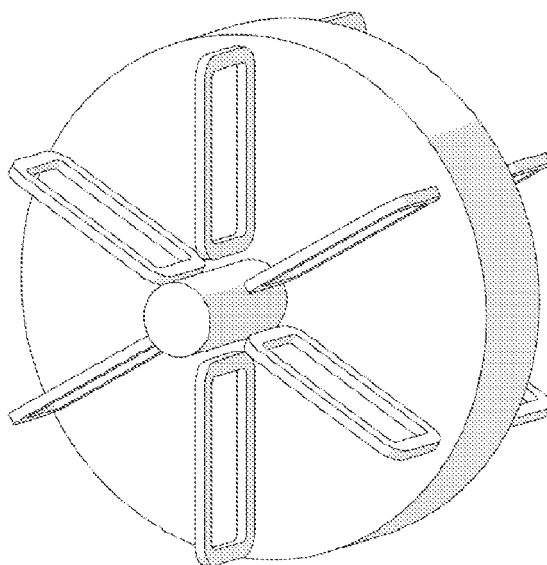


Figure 265

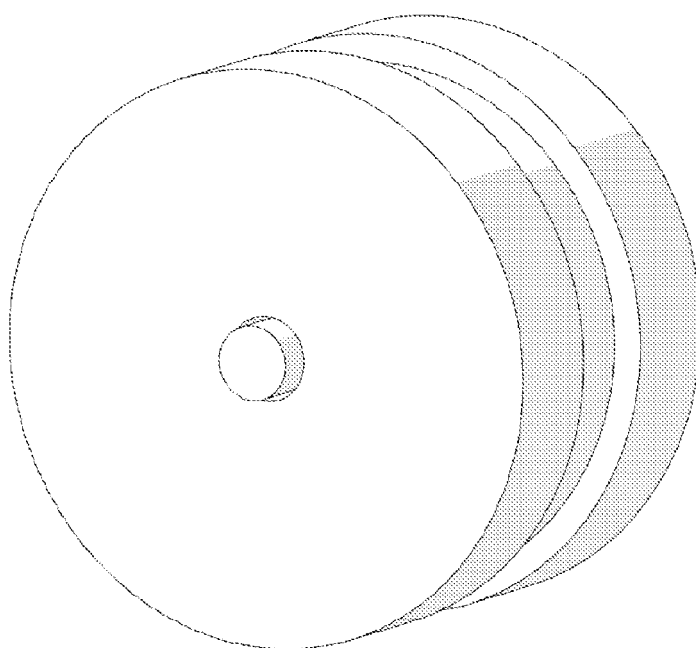


Figure 266

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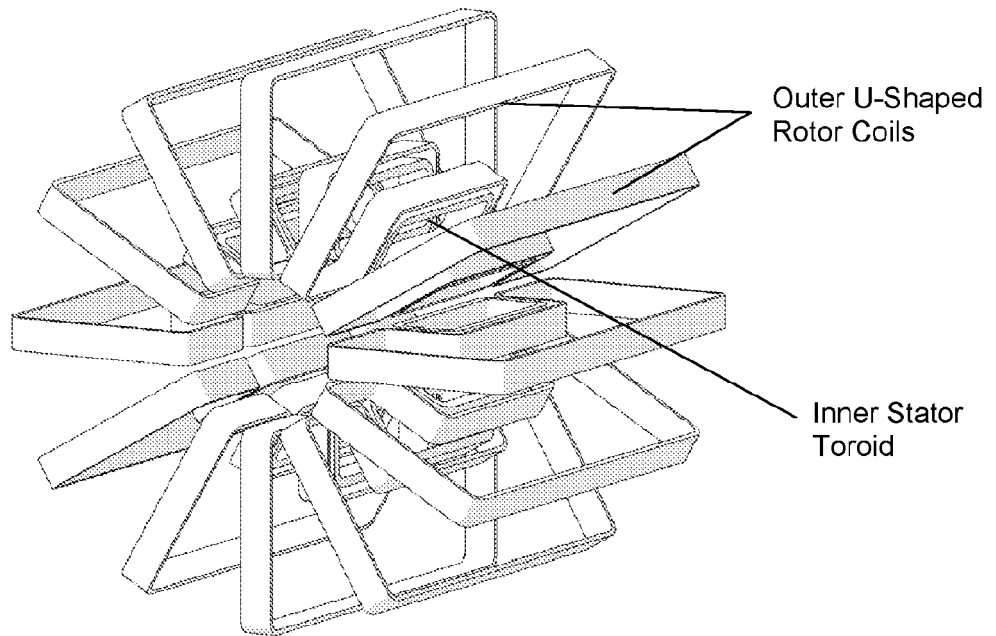


Figure 267

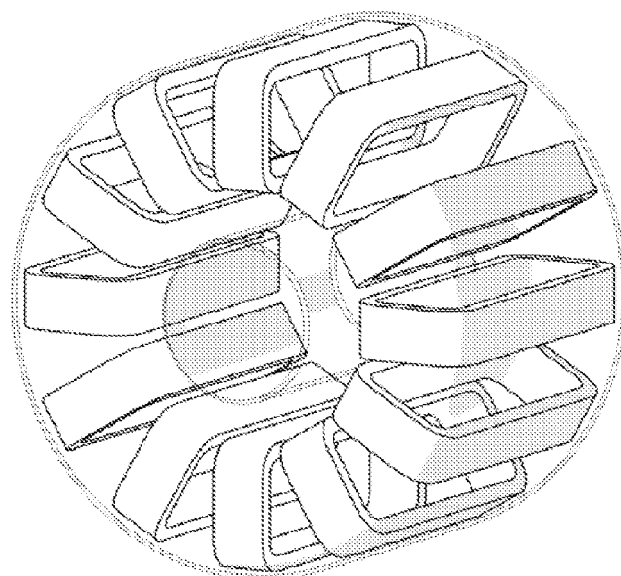


Figure 268

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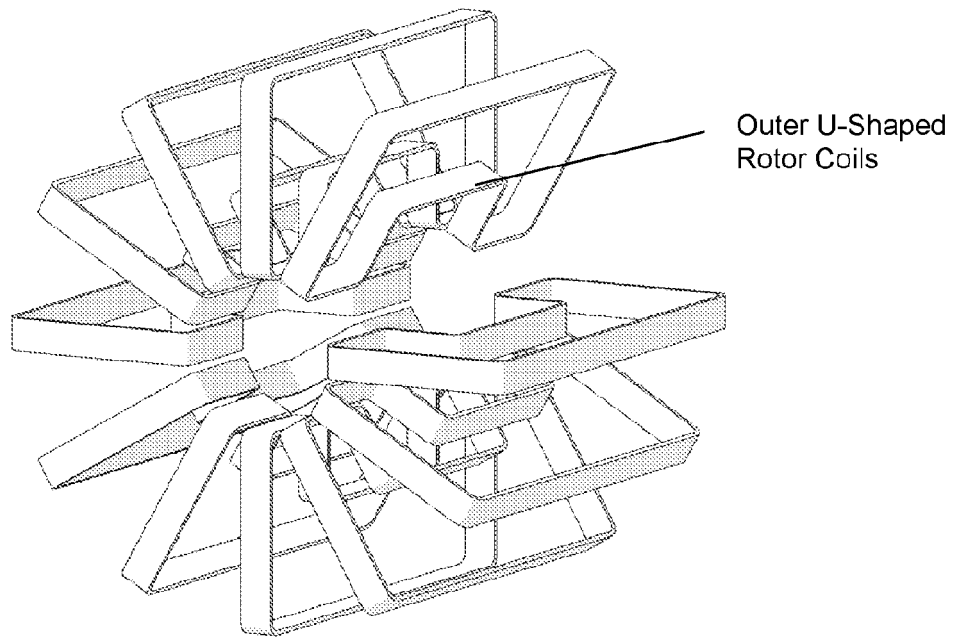


Figure 269

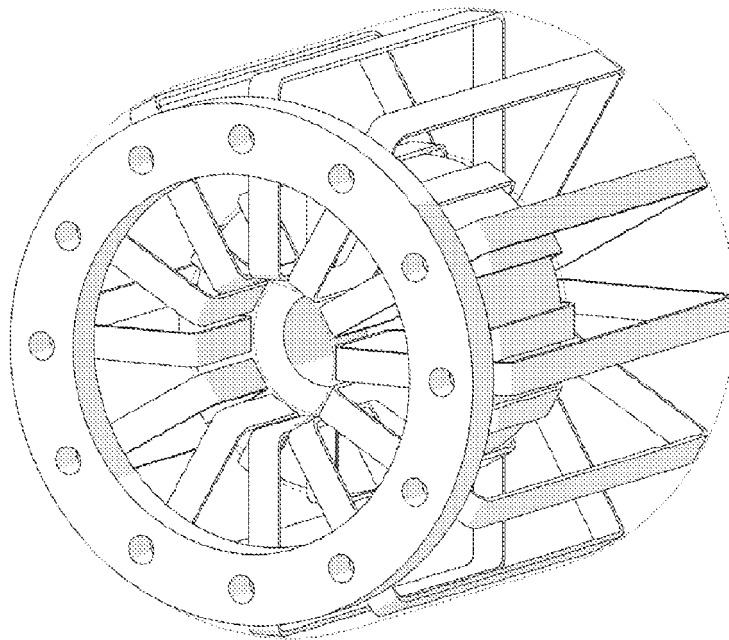


Figure 270

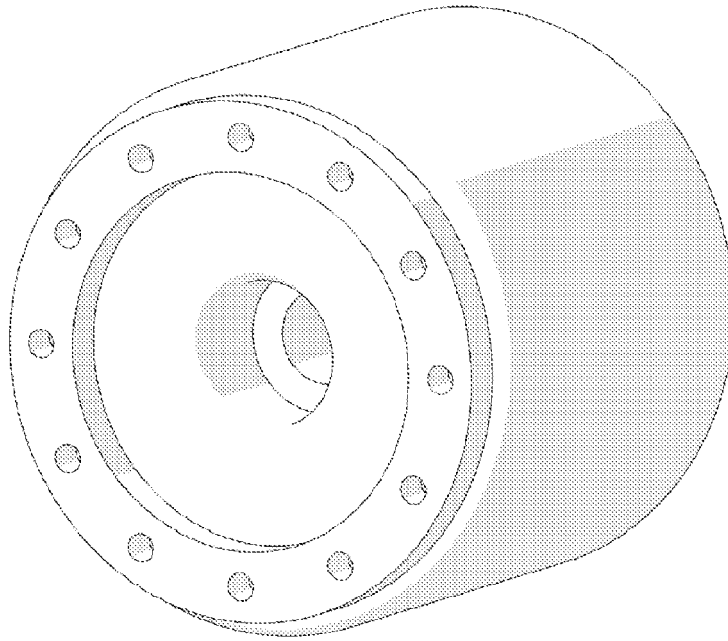


Figure 271

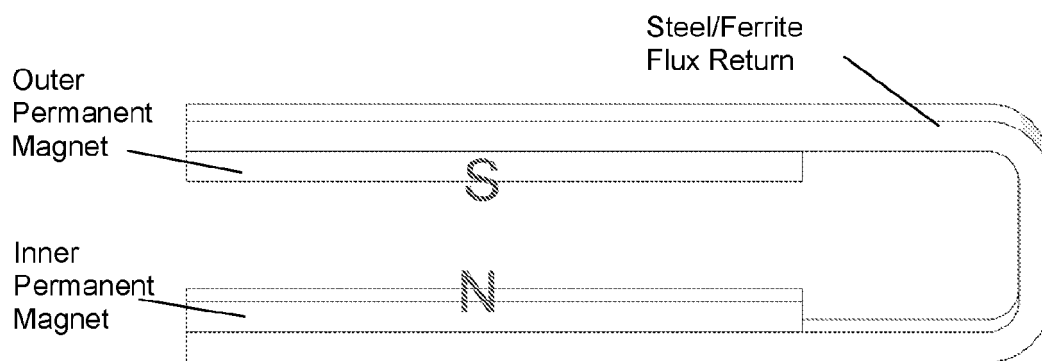


Figure 272

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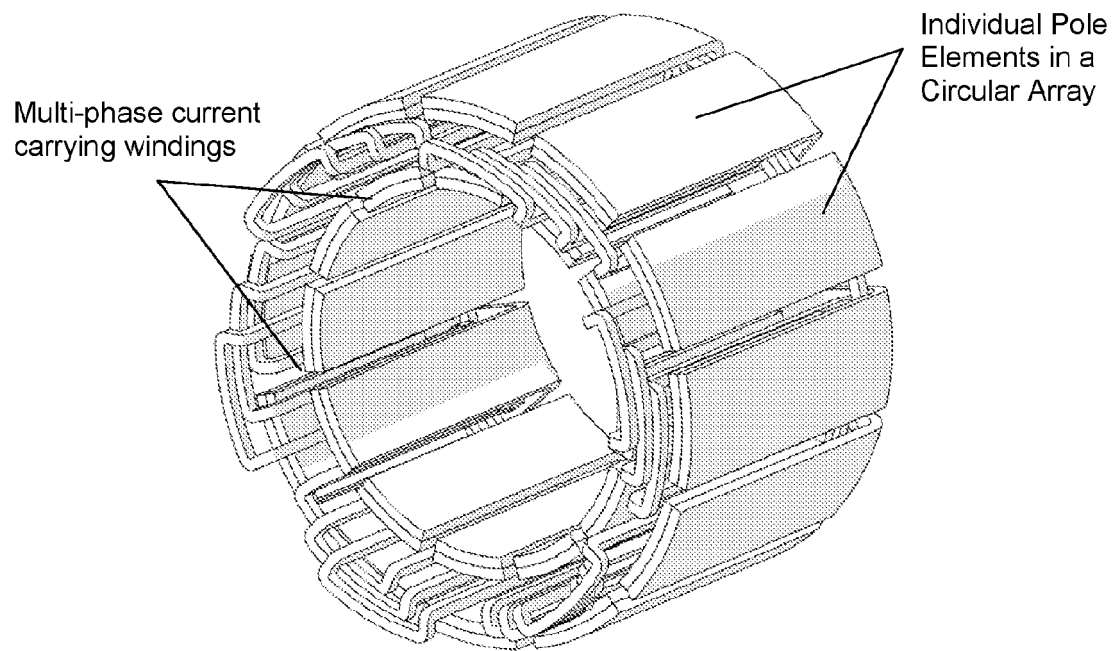


Figure 273

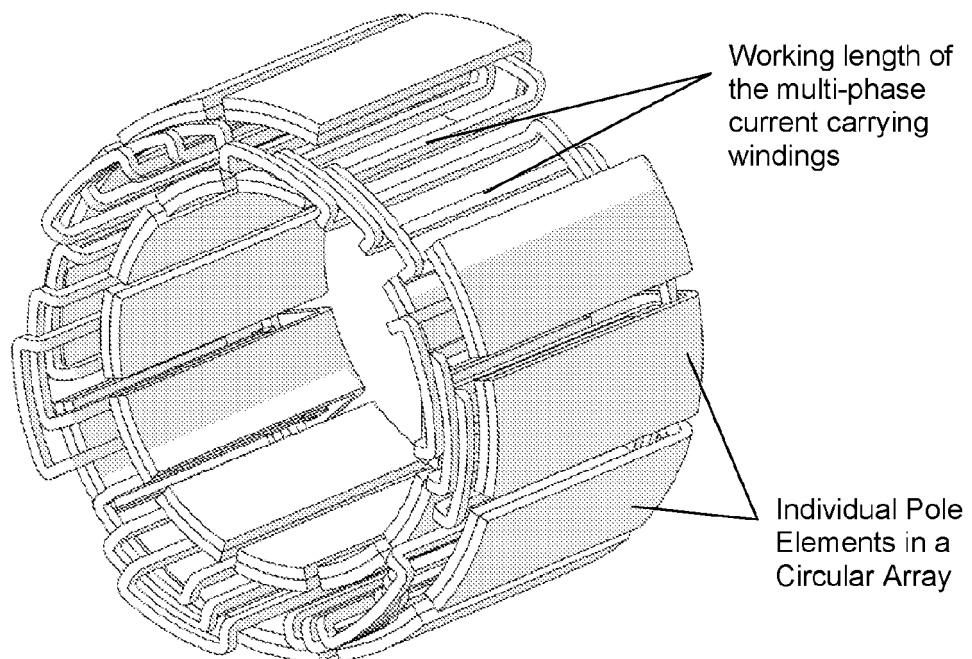


Figure 274

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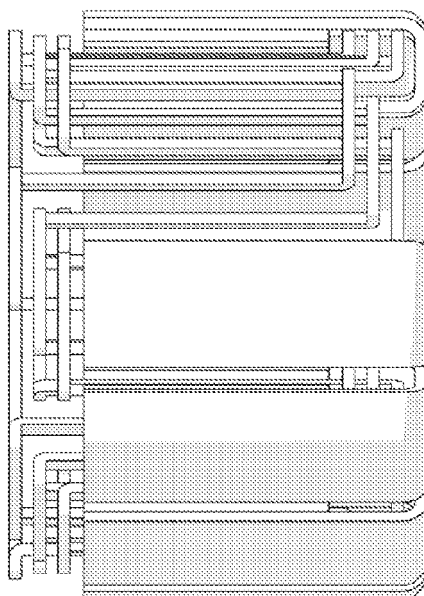


Figure 275

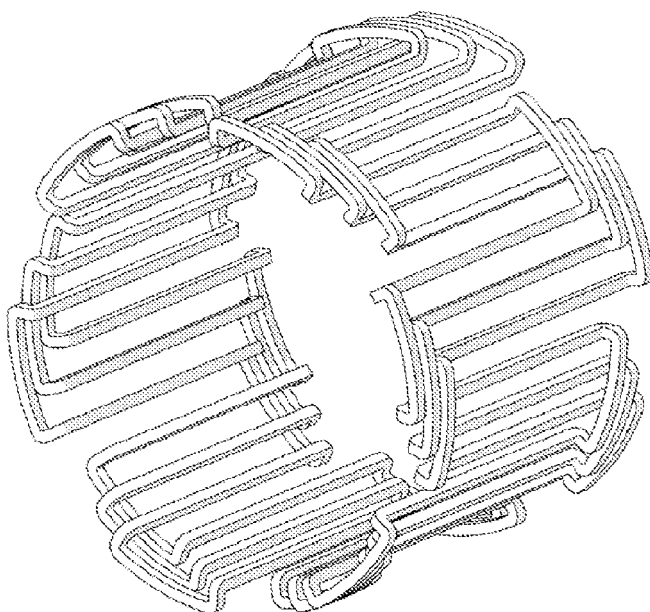
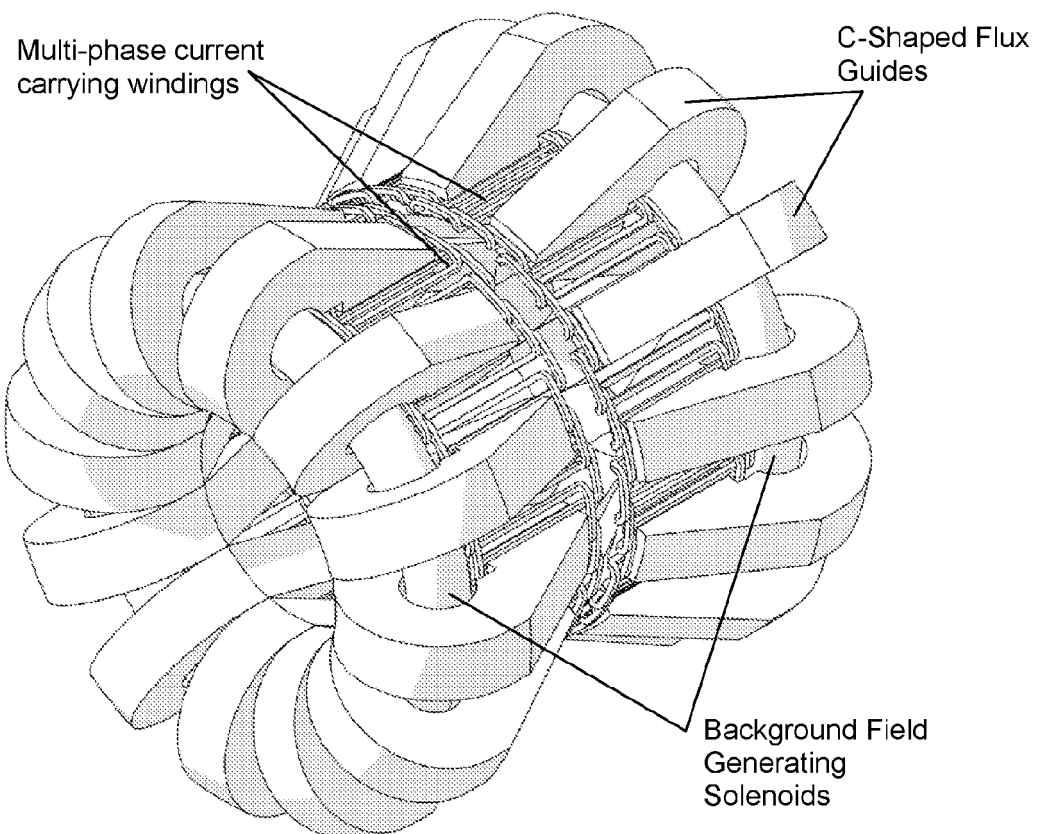
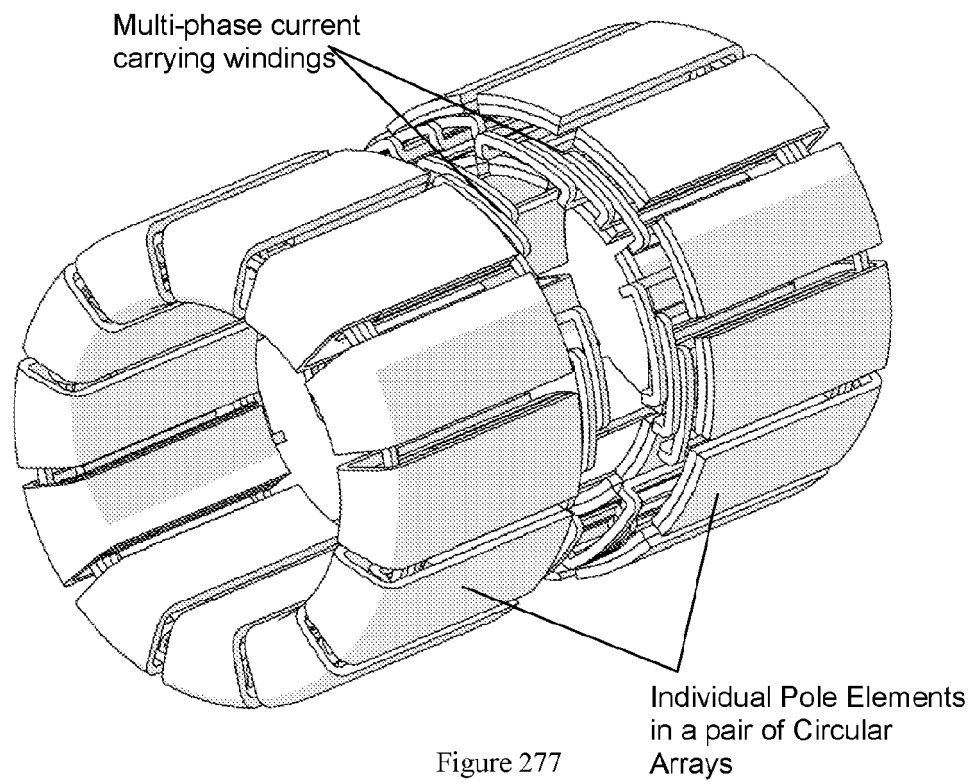


Figure 276

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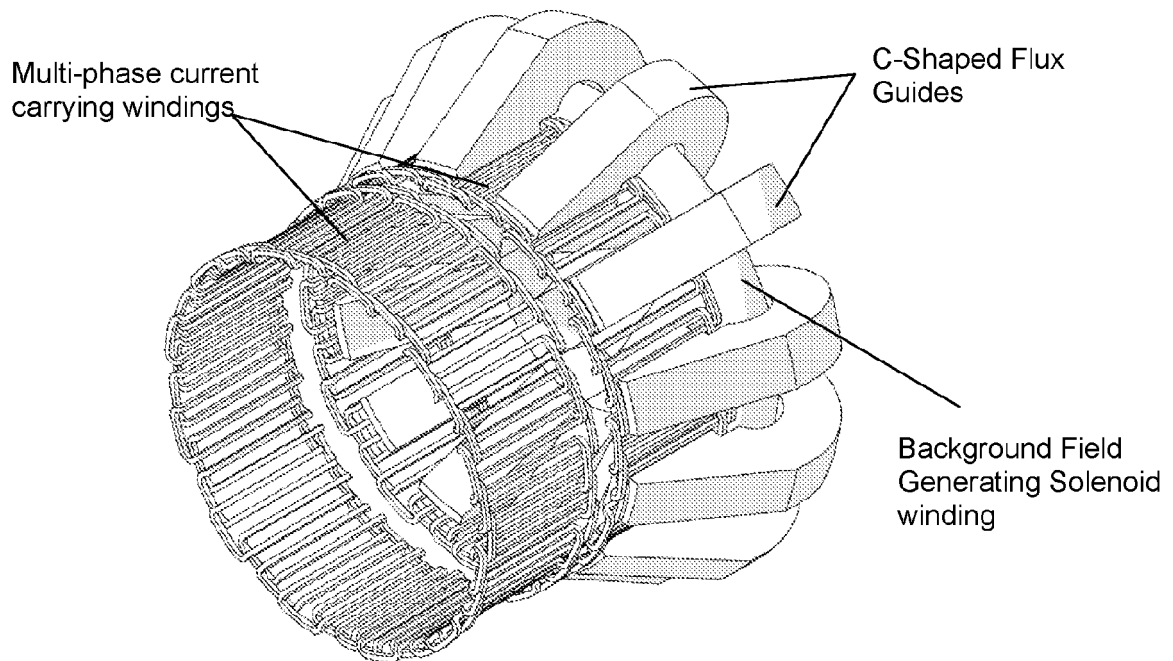


Figure 279

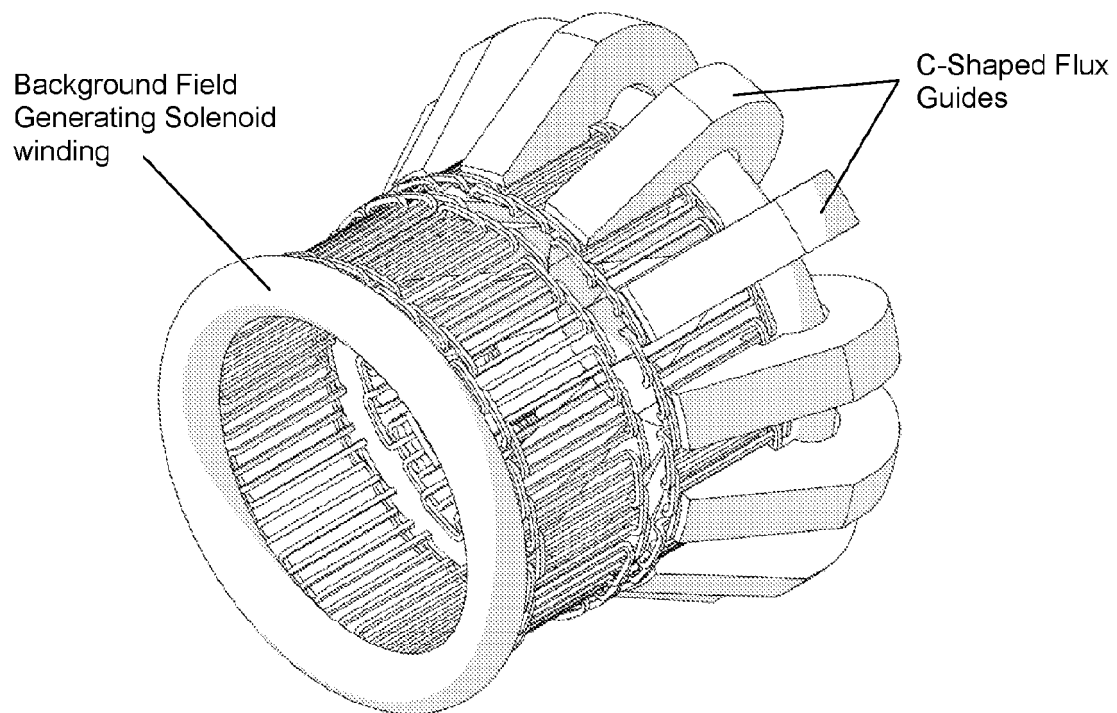


Figure 280

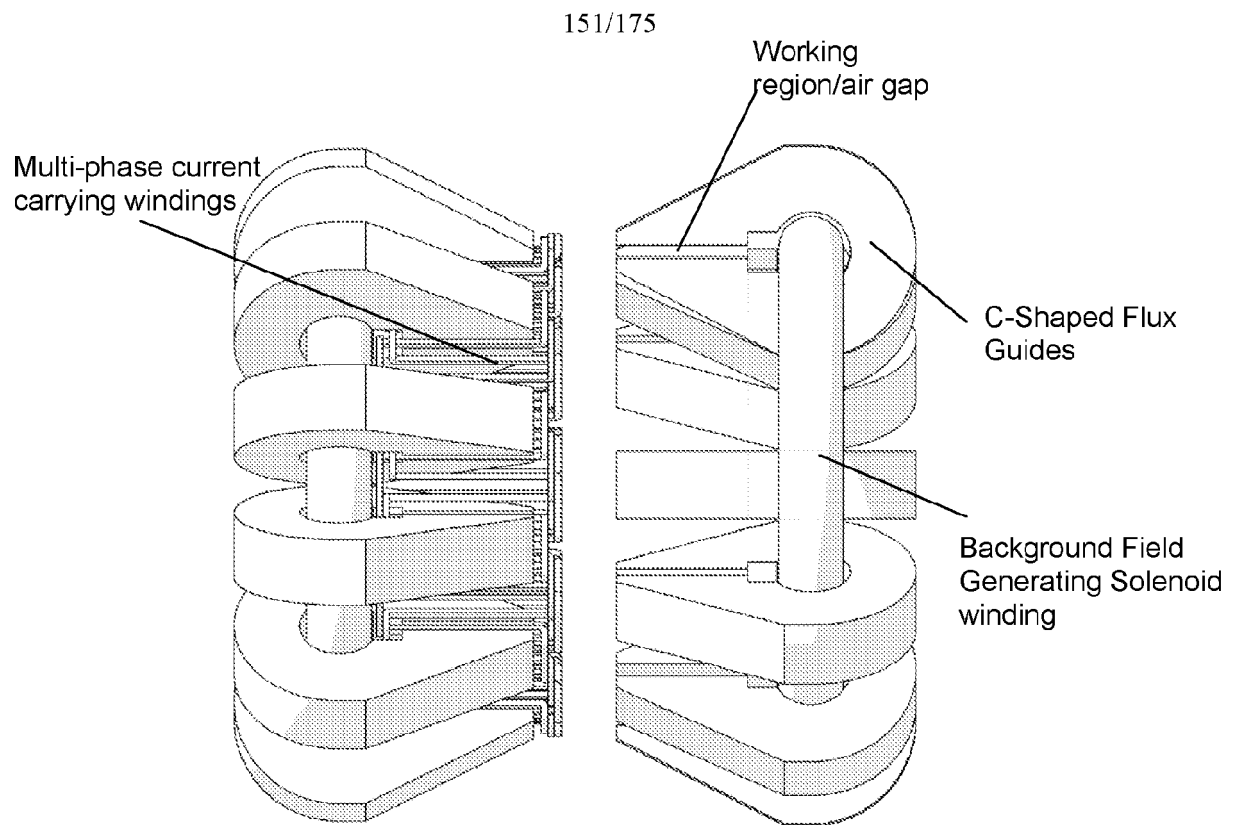


Figure 281

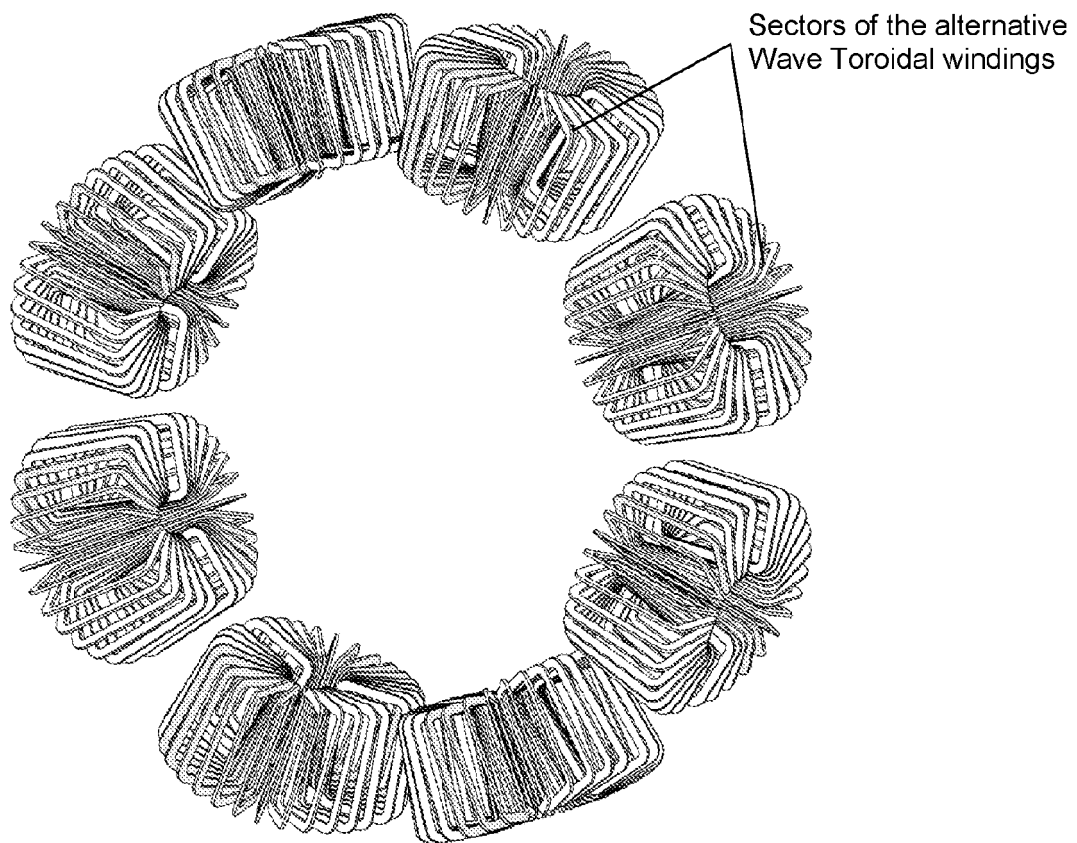


Figure 282

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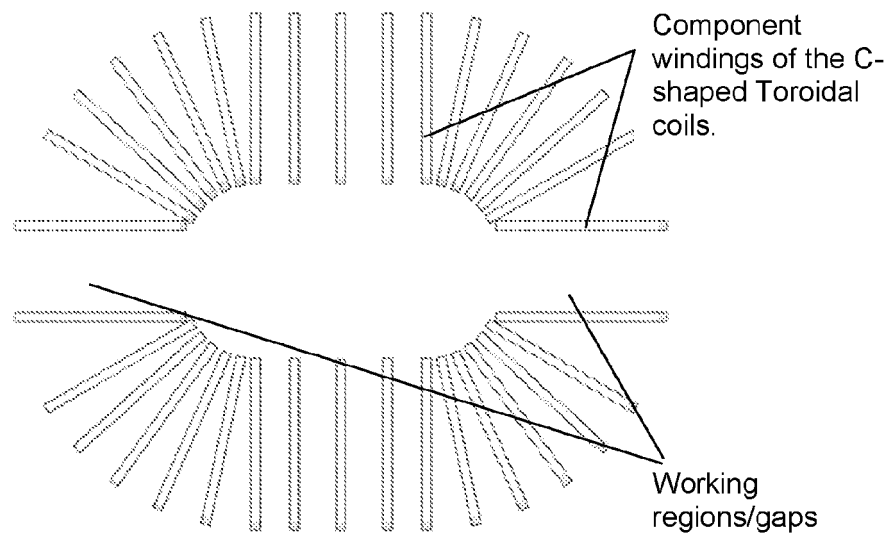


Figure 283

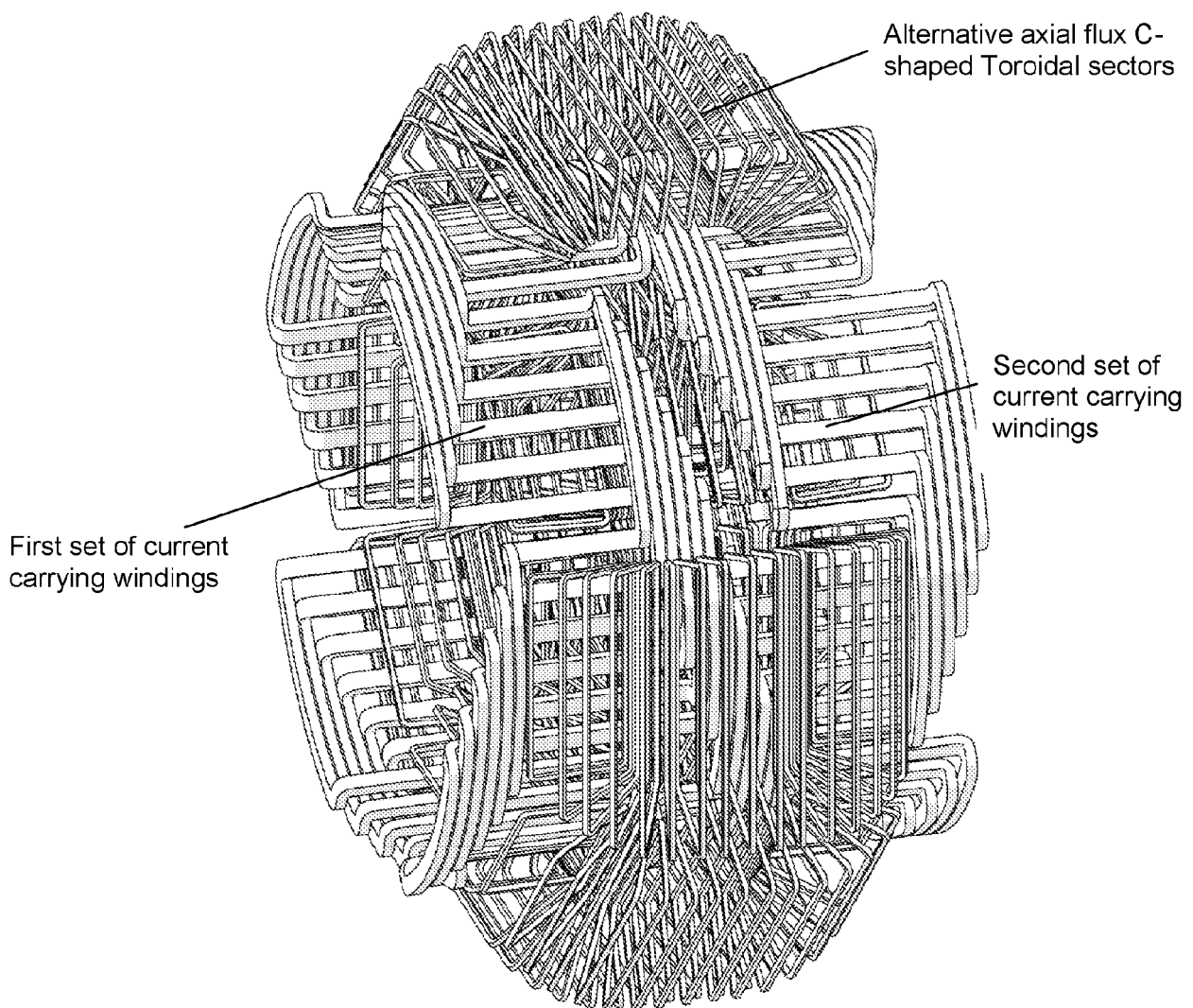


Figure 284

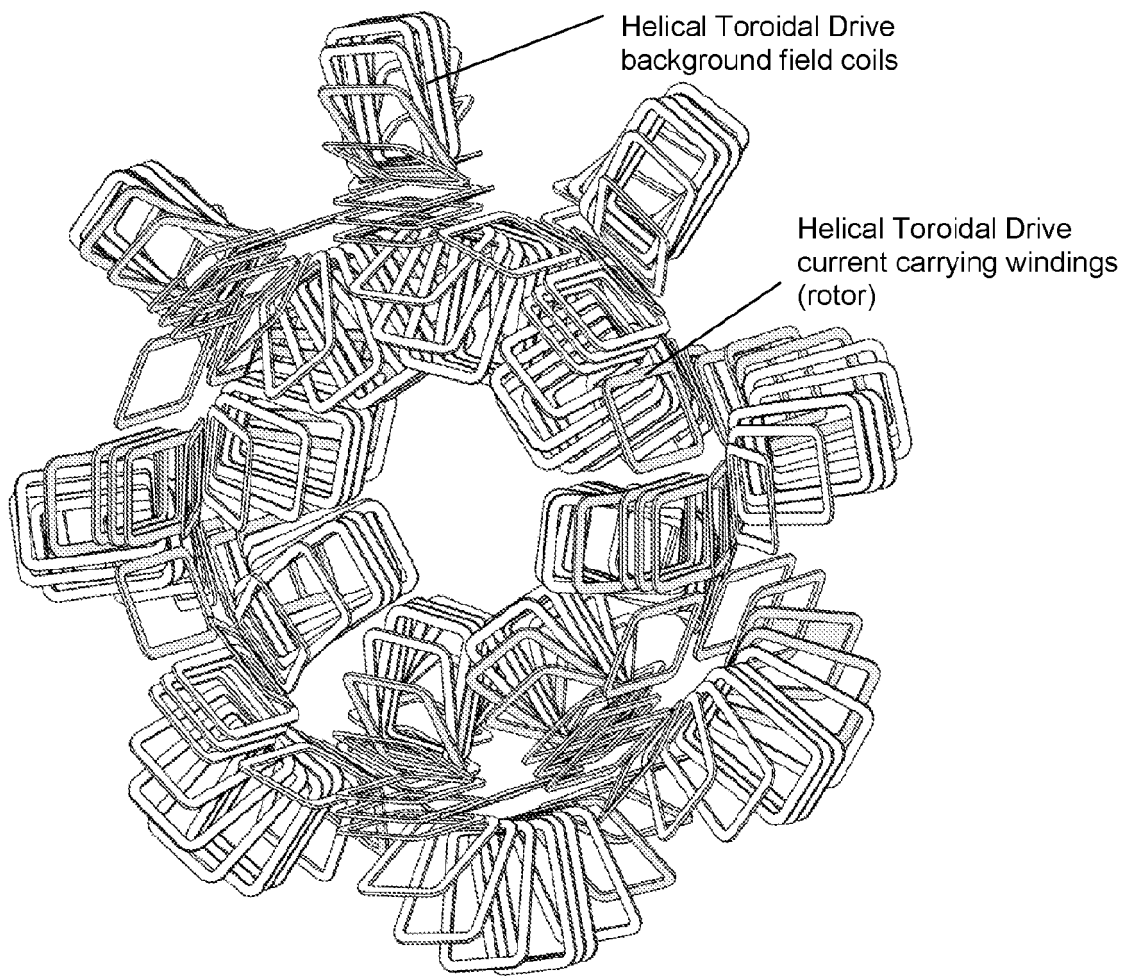


Figure 285

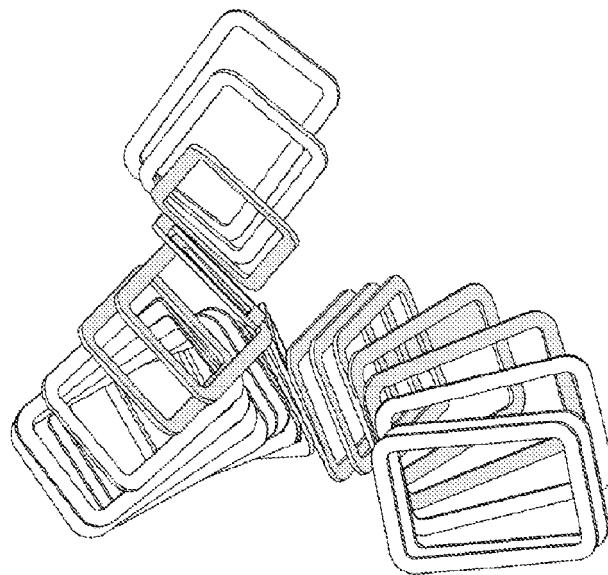


Figure 286

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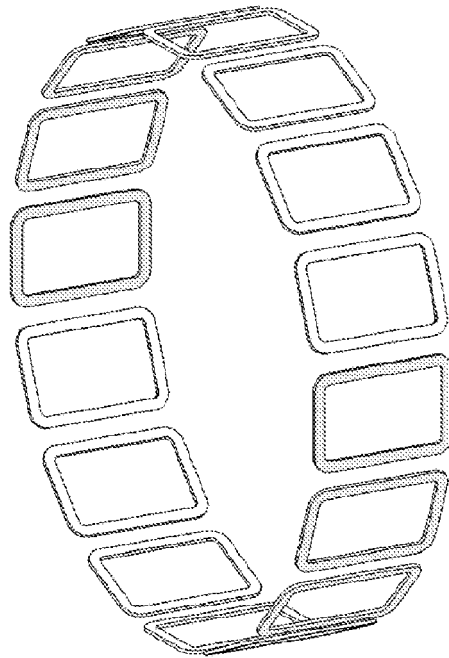


Figure 287

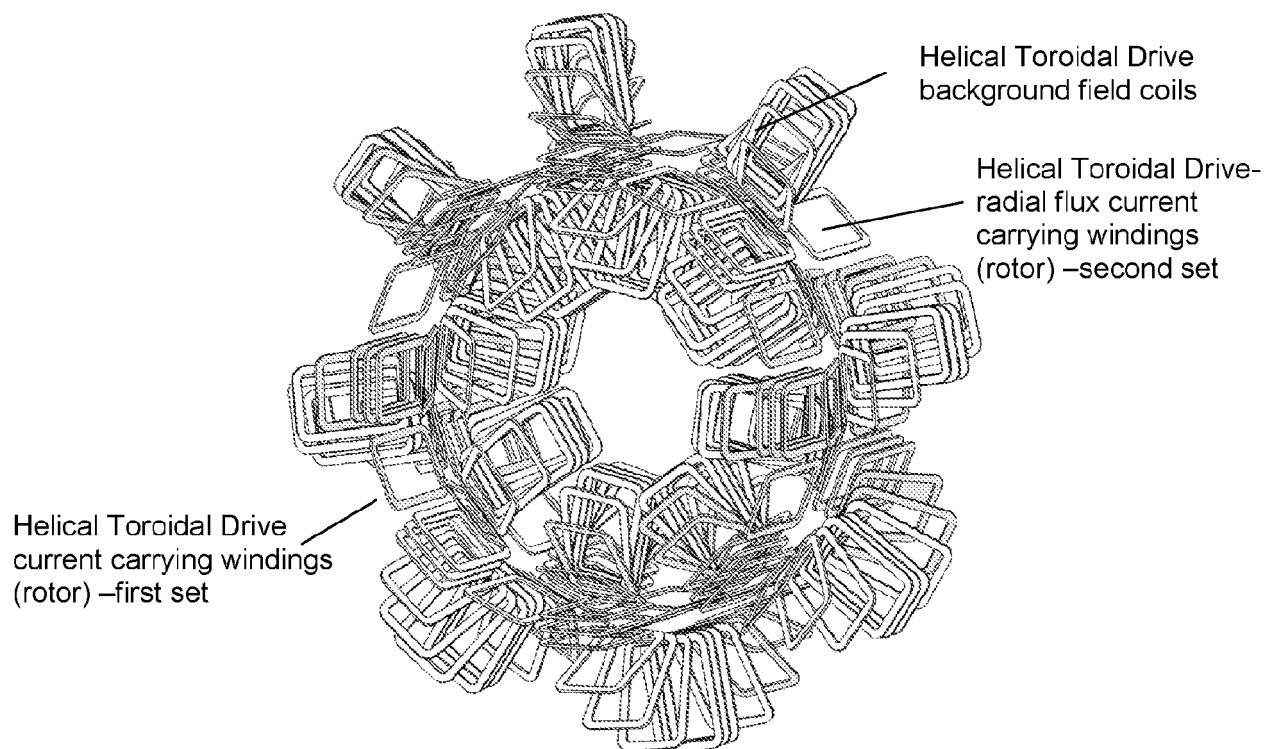


Figure 288

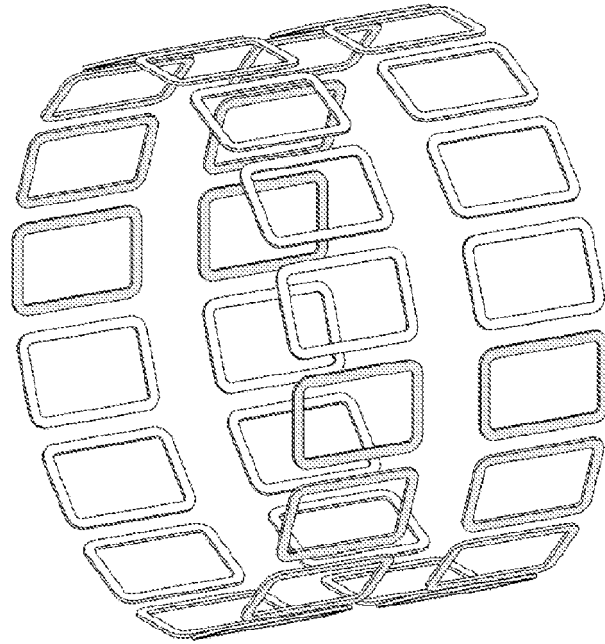


Figure 289

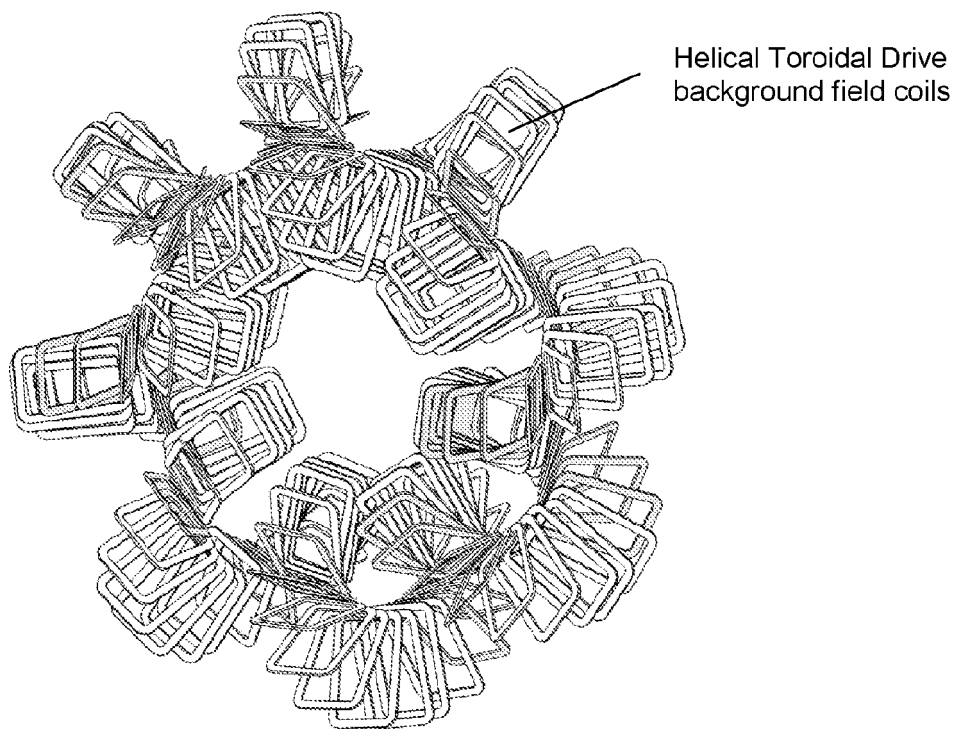


Figure 290

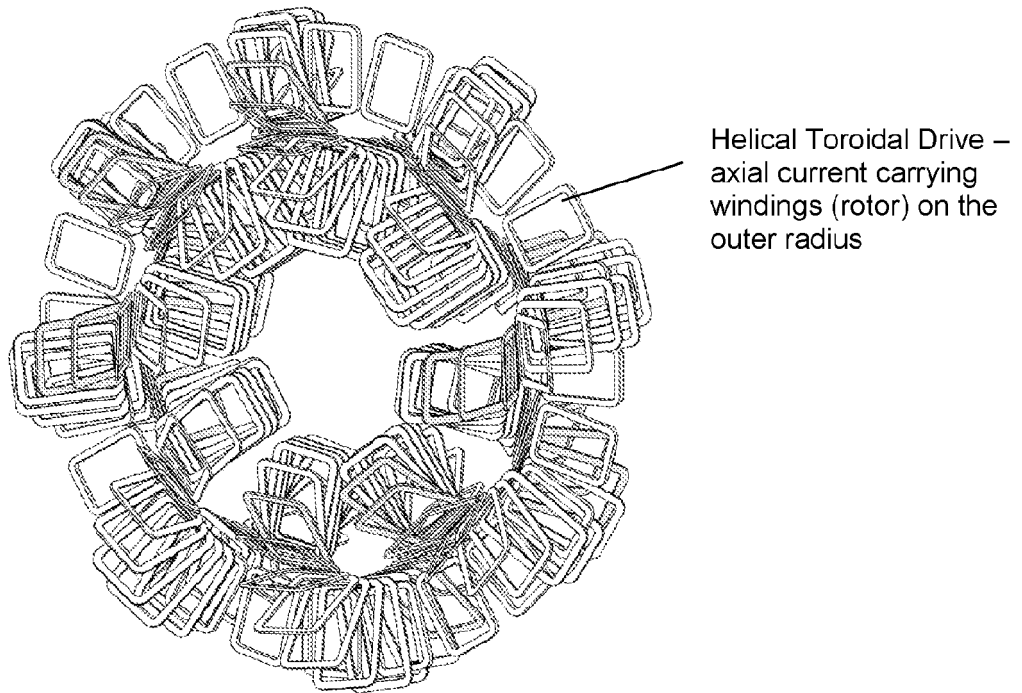


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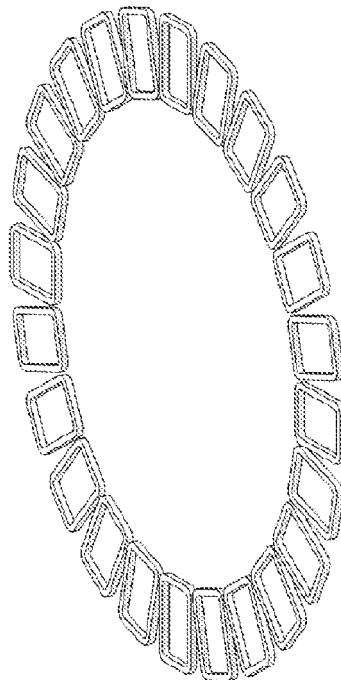


Figure 292

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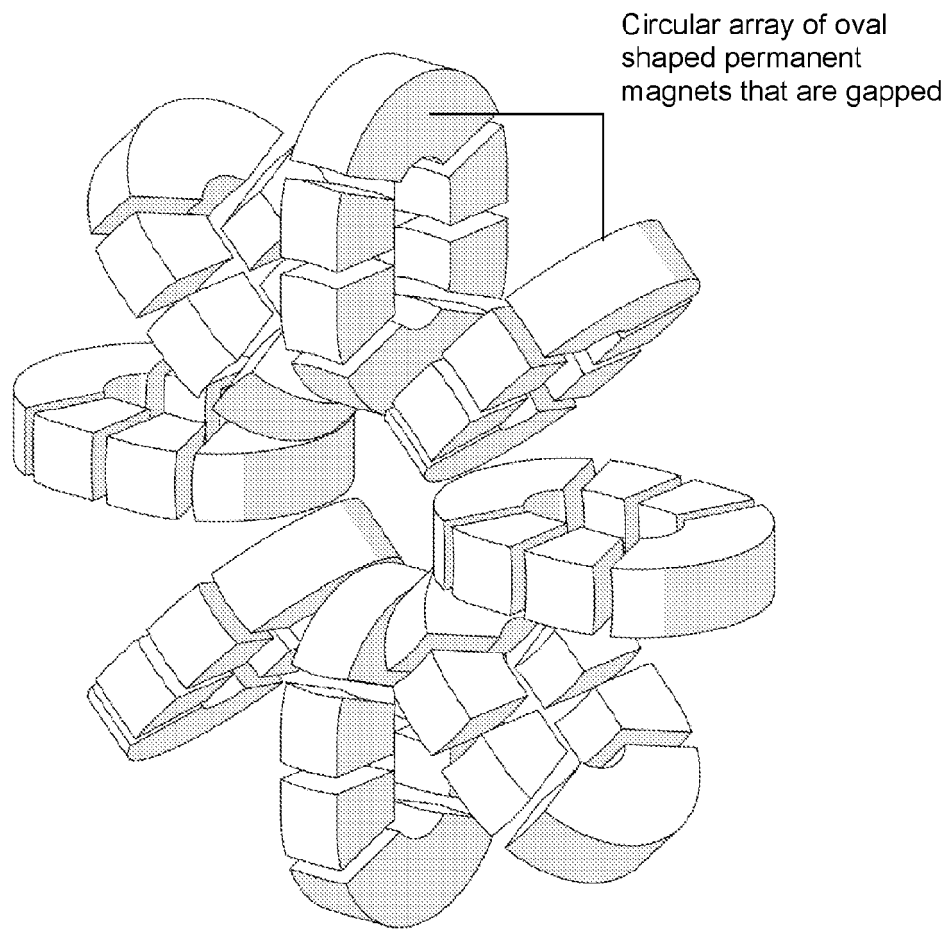


Figure 293

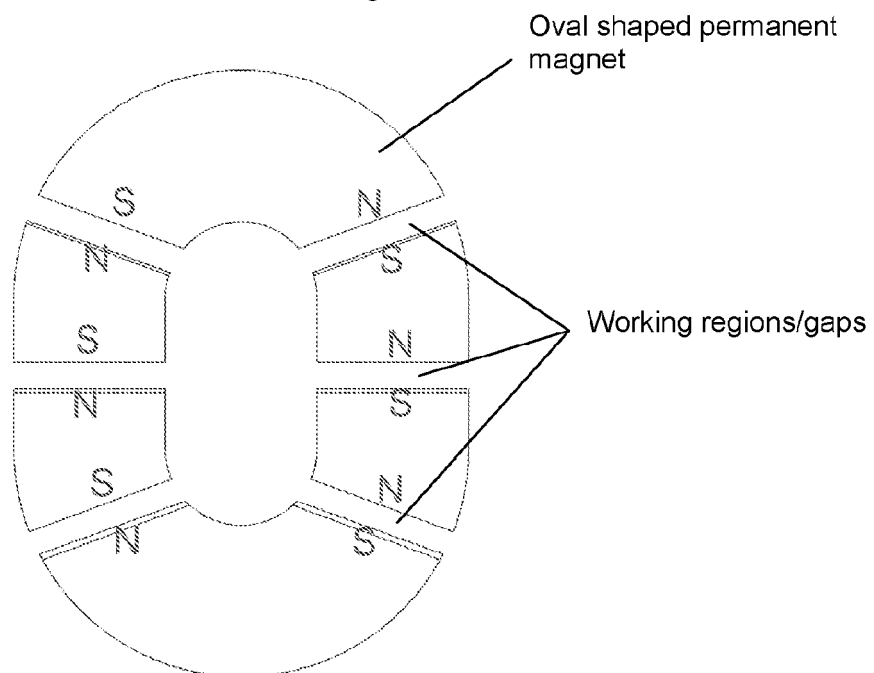


Figure 294

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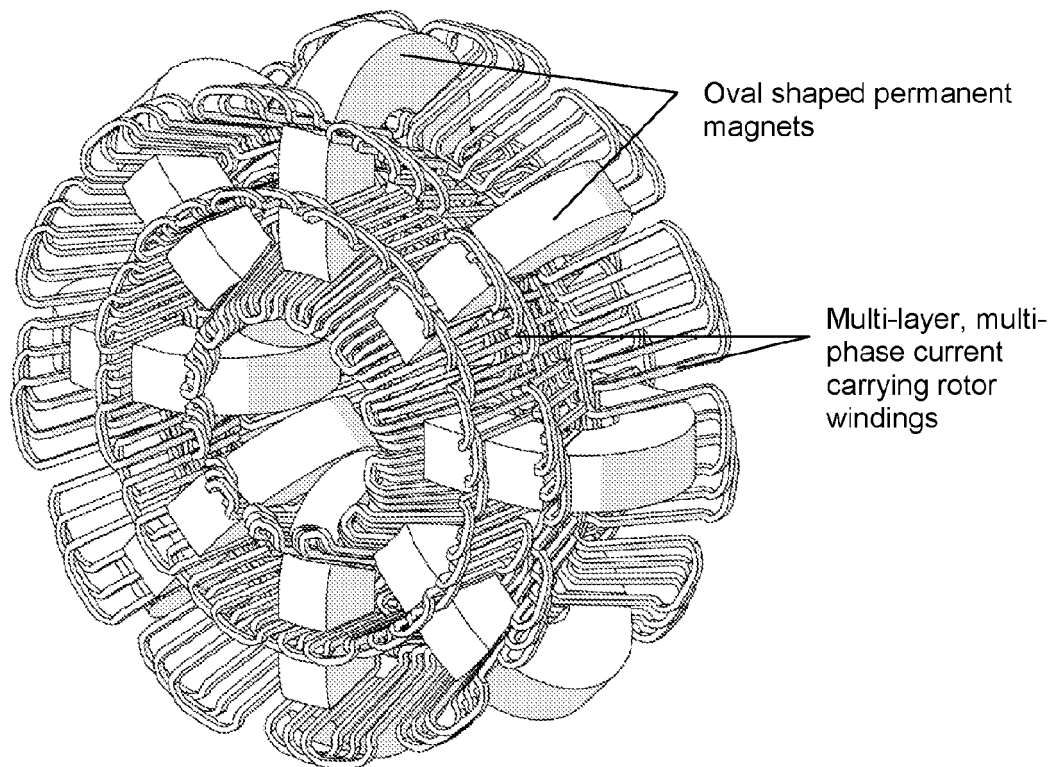


Figure 295

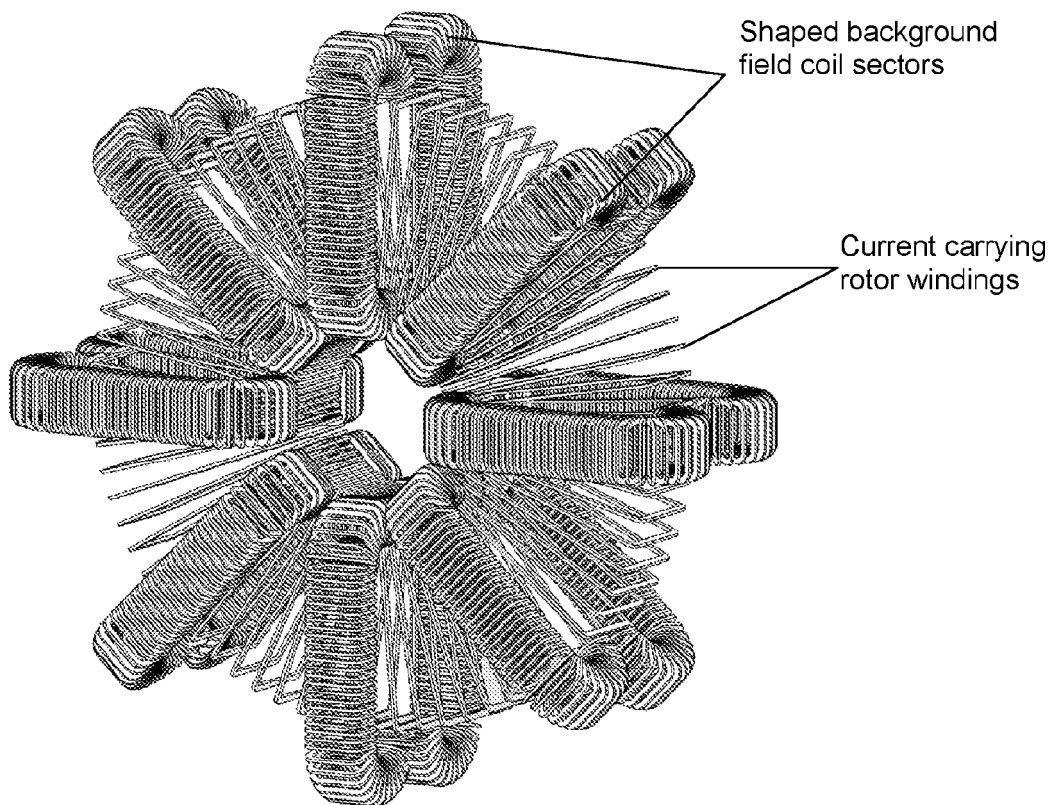


Figure 296

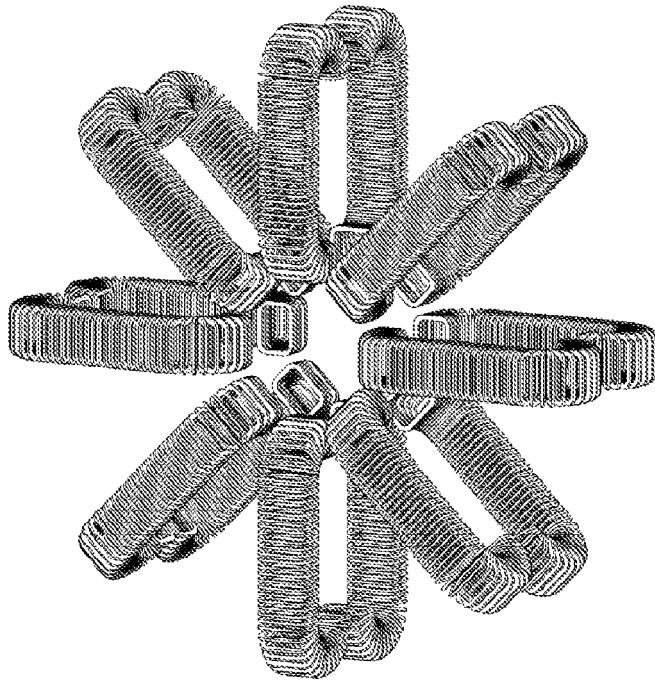


Figure 297

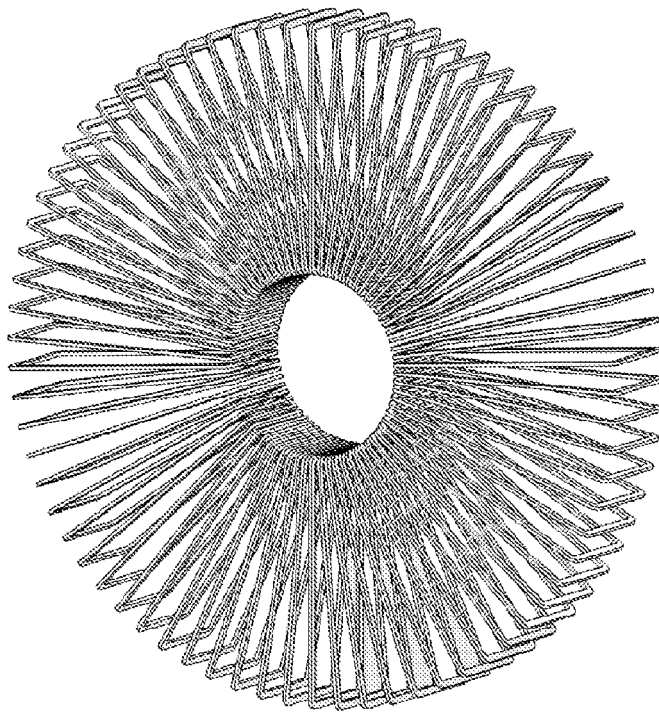


Figure 298

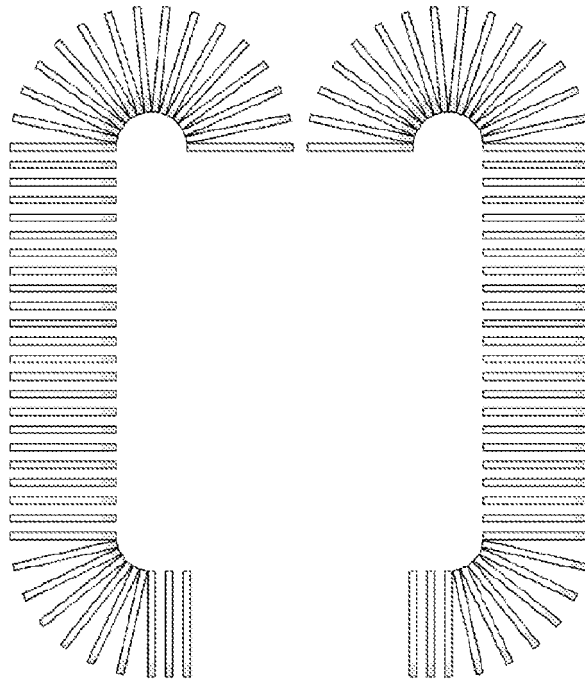


Figure 299

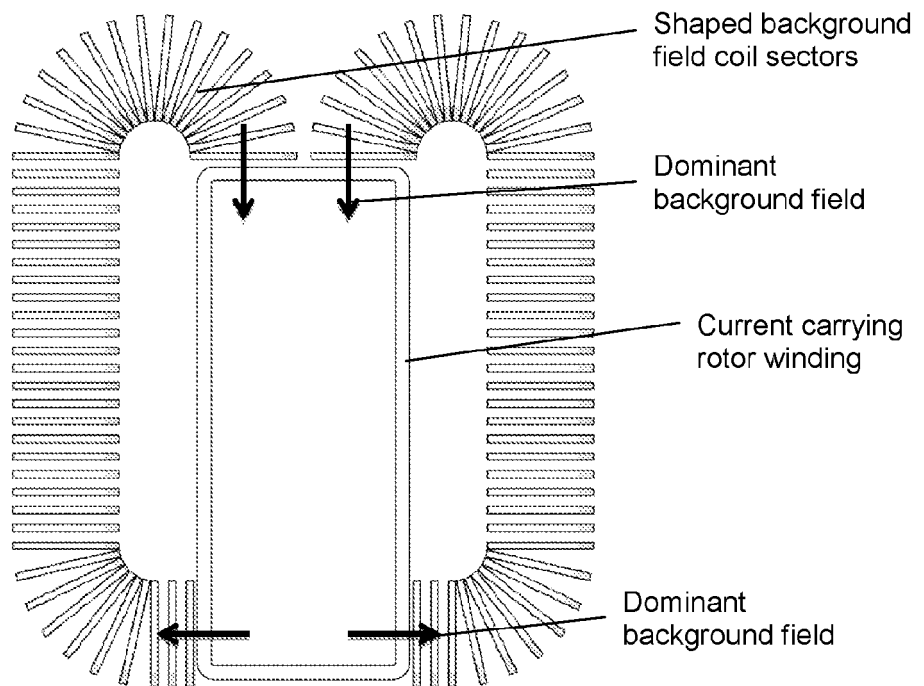


Figure 300

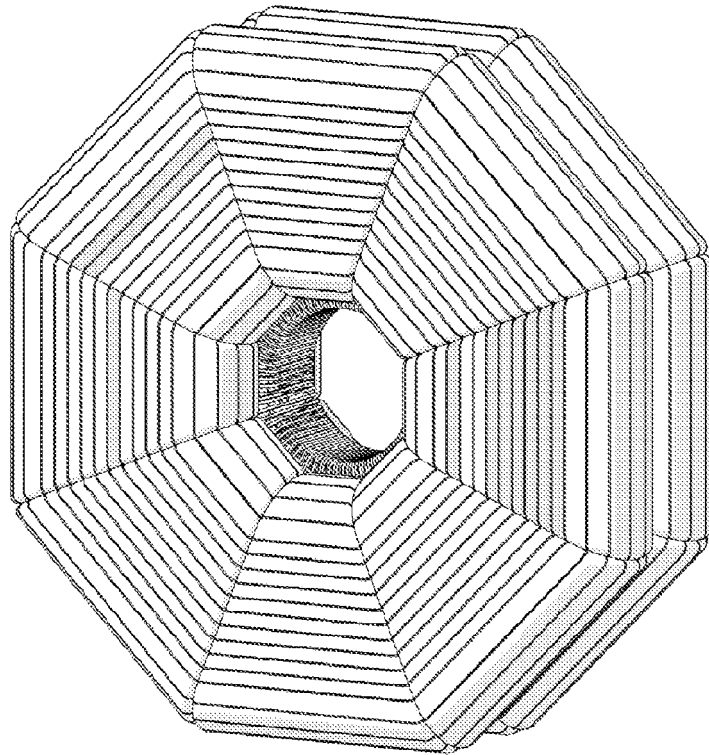


Figure 301

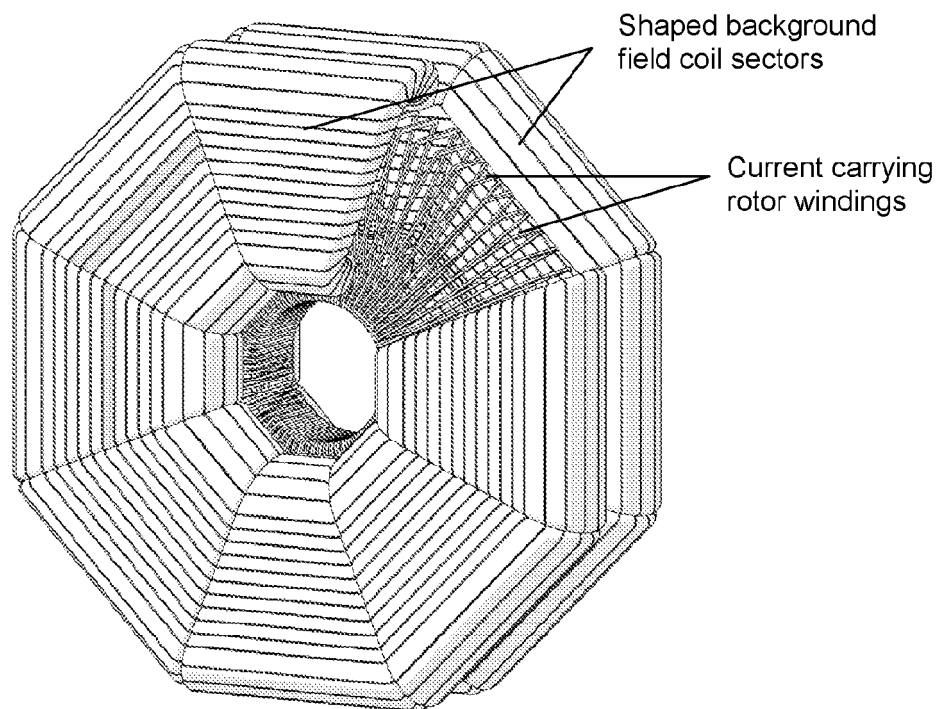


Figure 302

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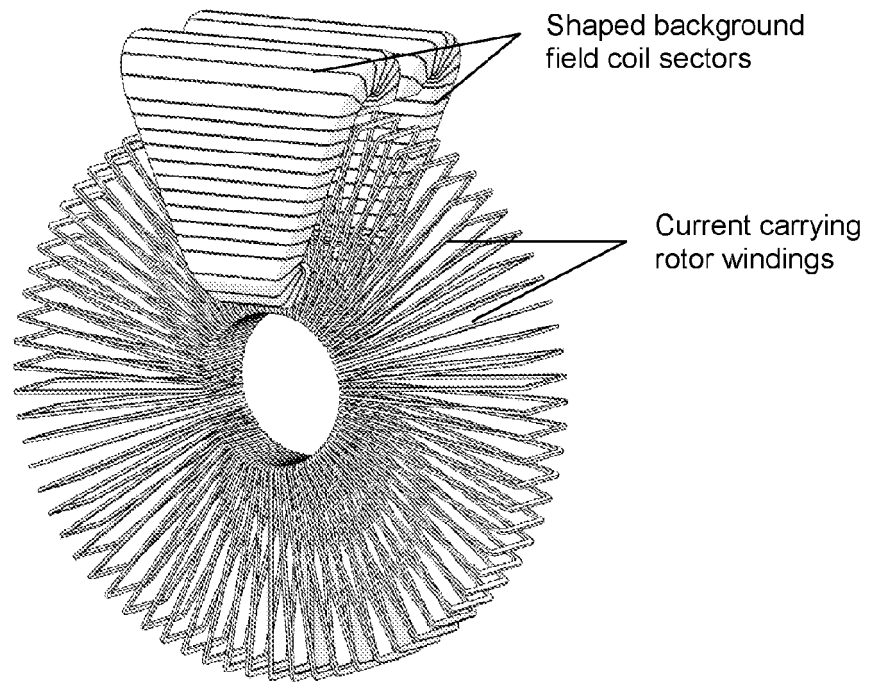


Figure 303

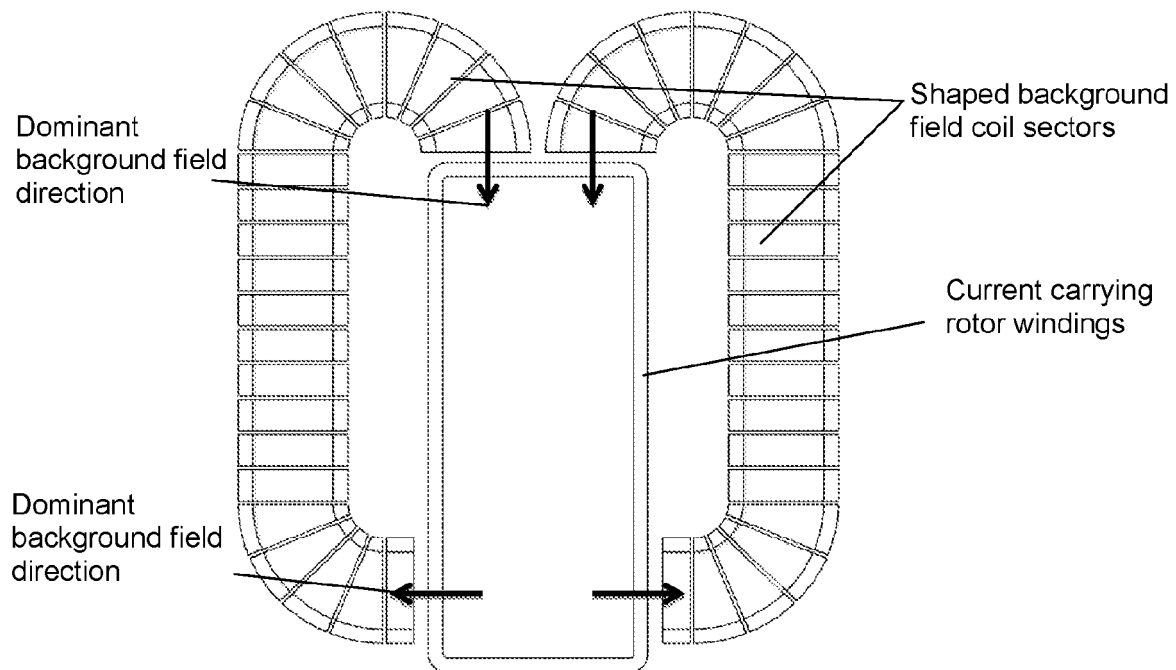


Figure 304

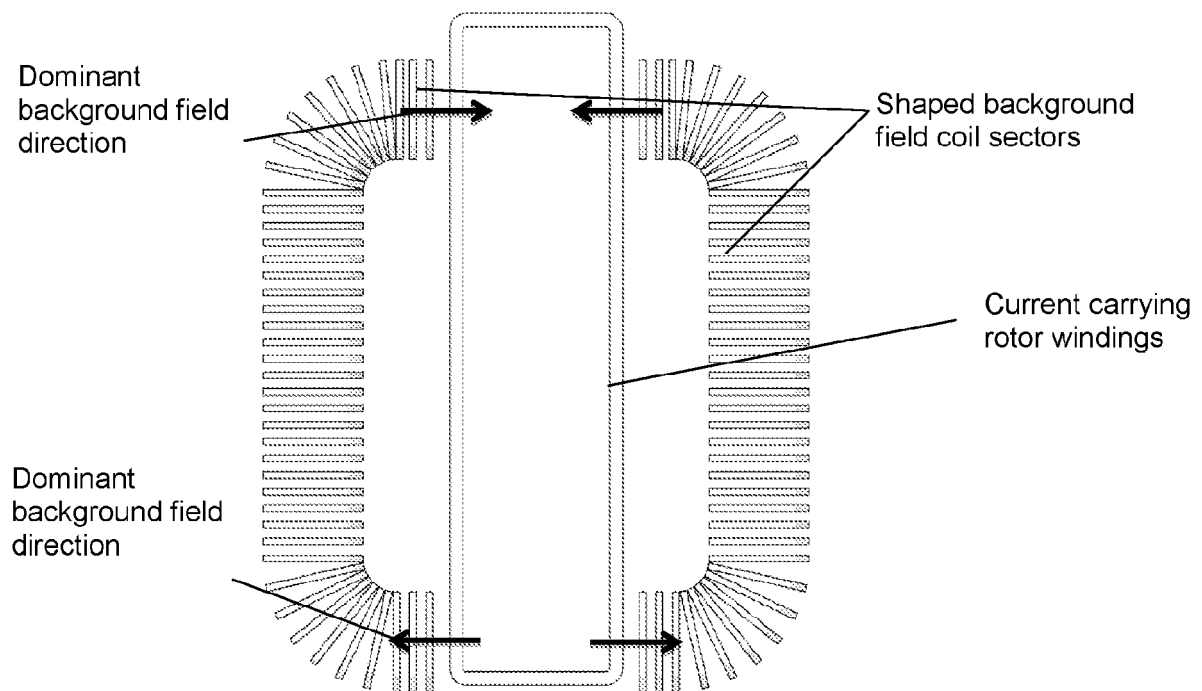


Figure 305

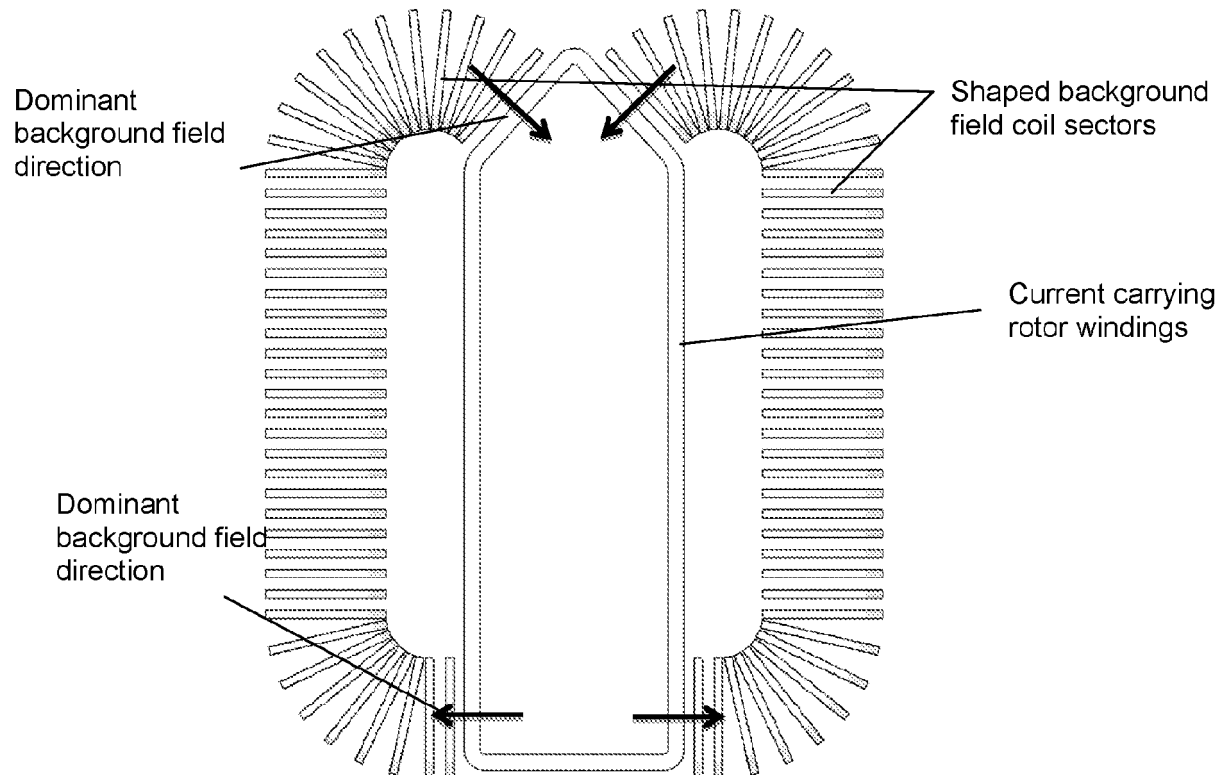


Figure 306

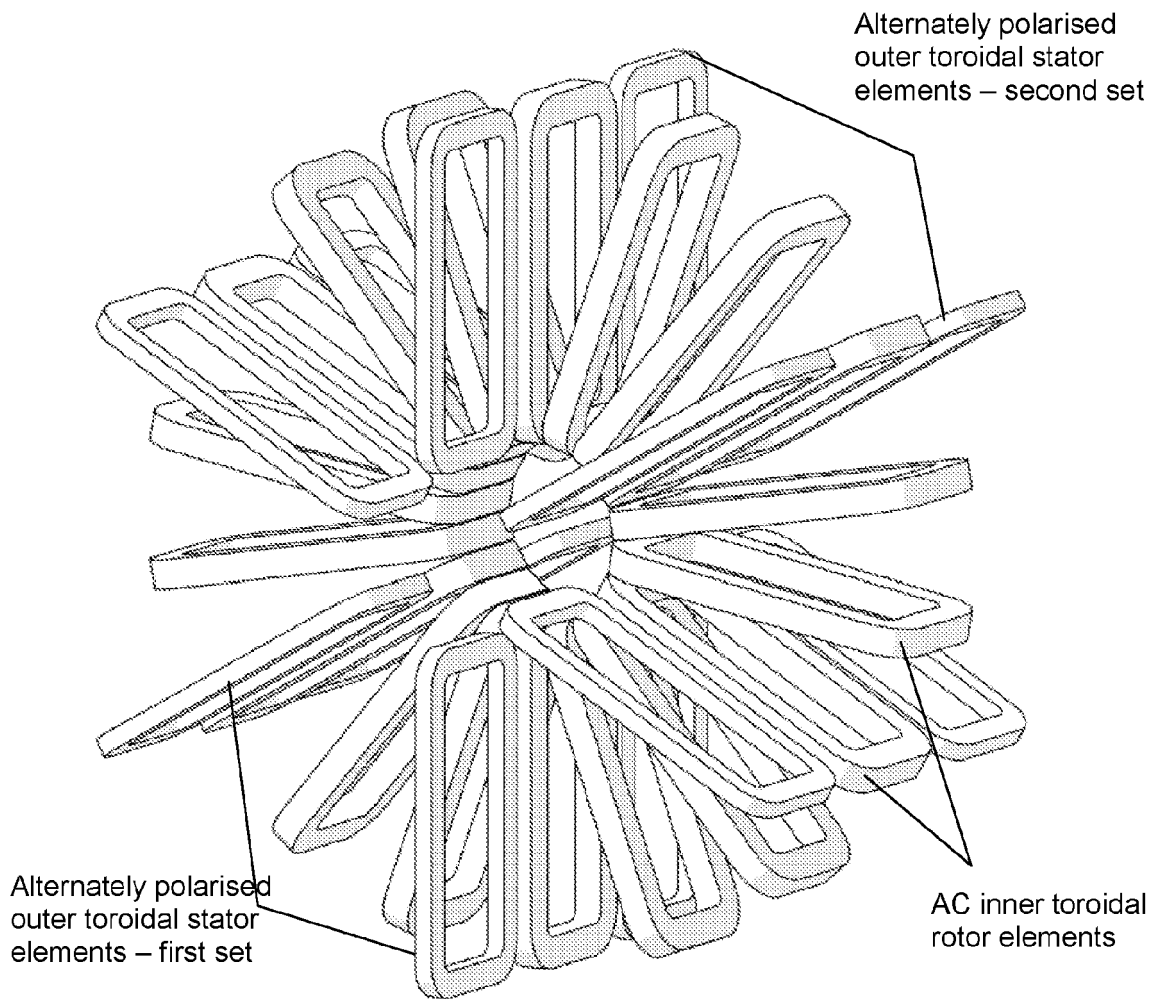


Figure 307

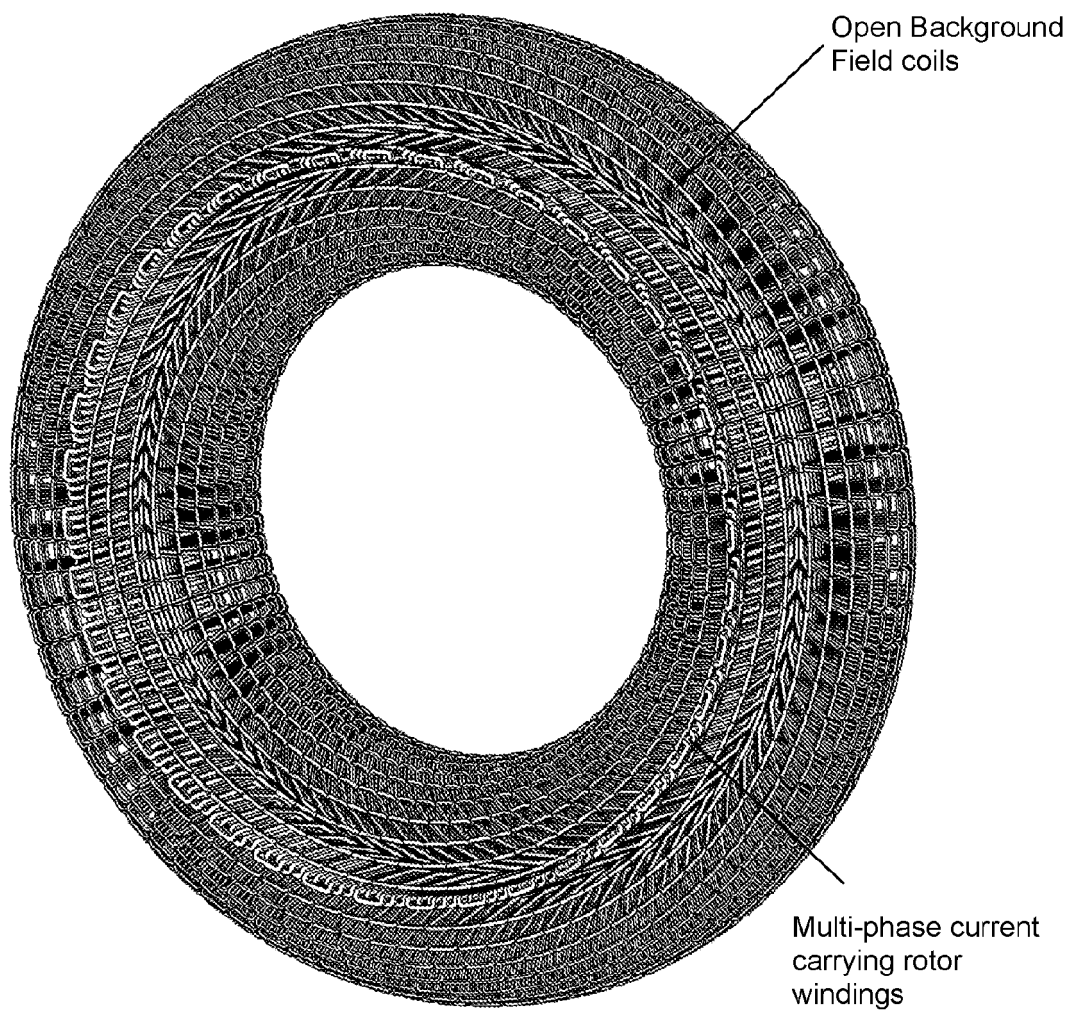


Figure 308

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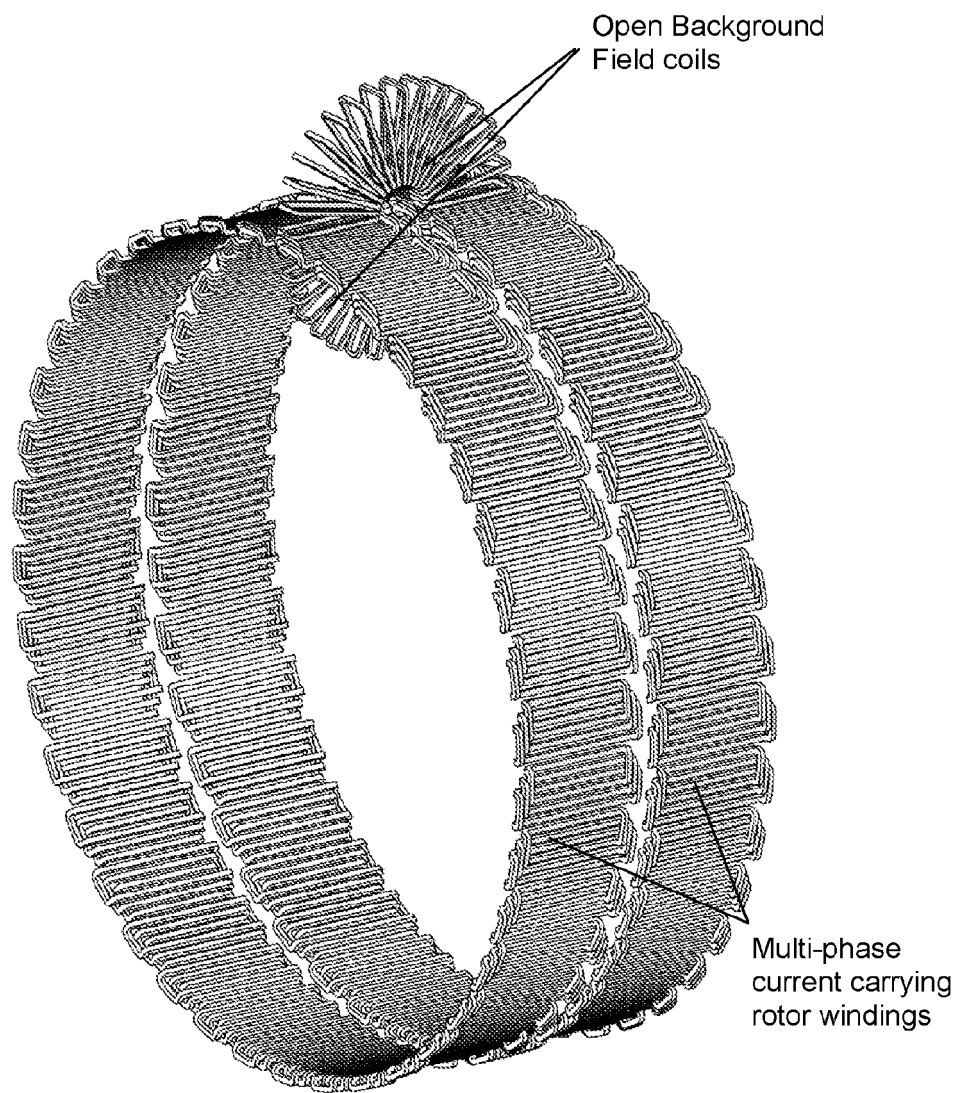


Figure 309

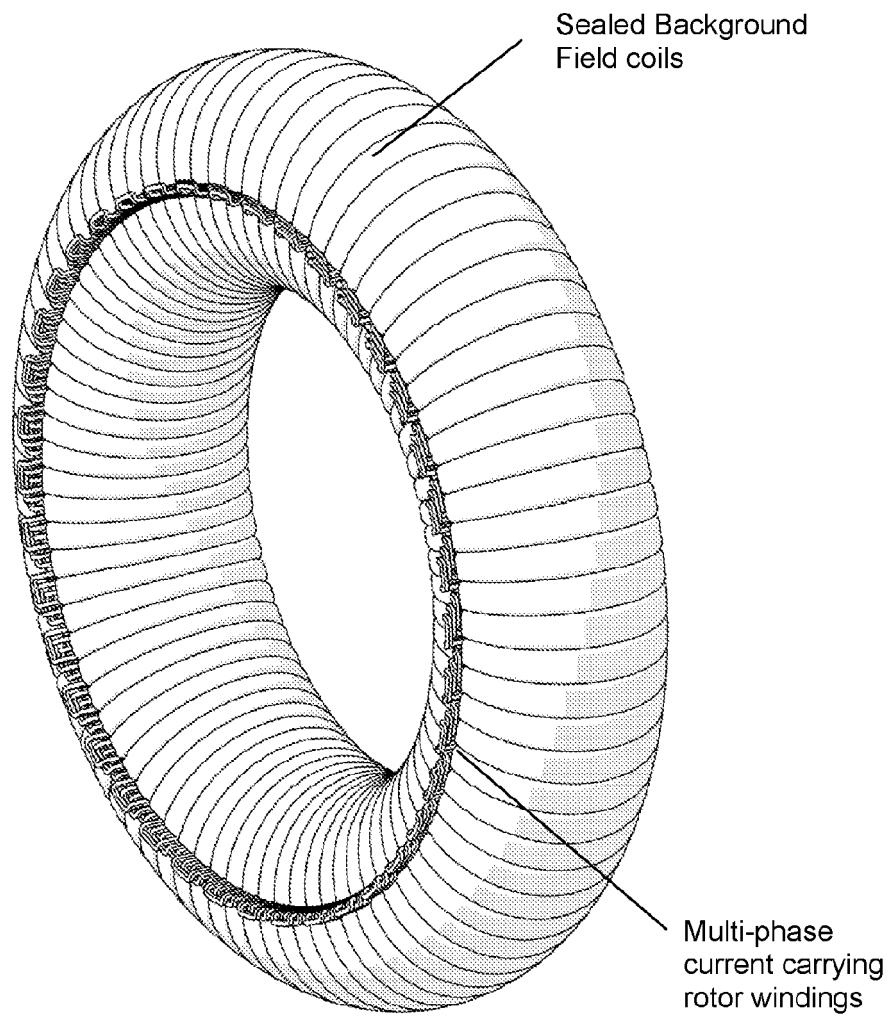


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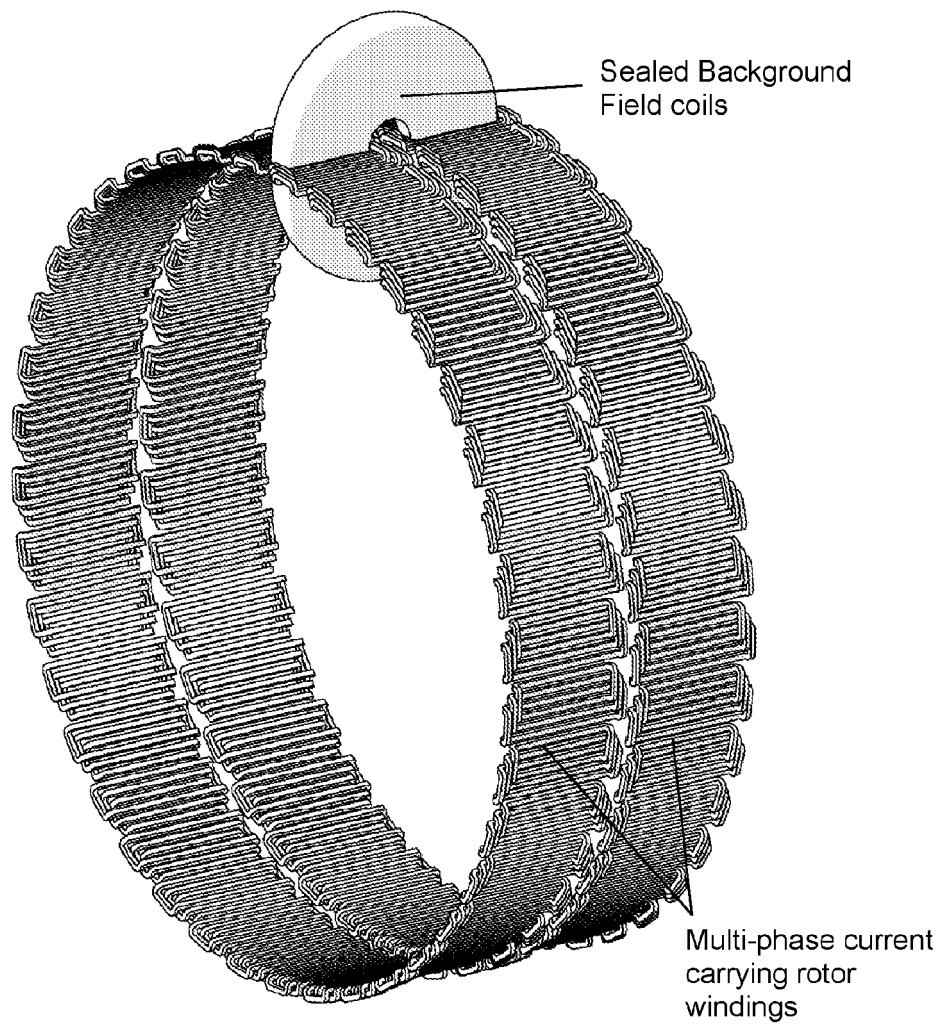


Figure 311

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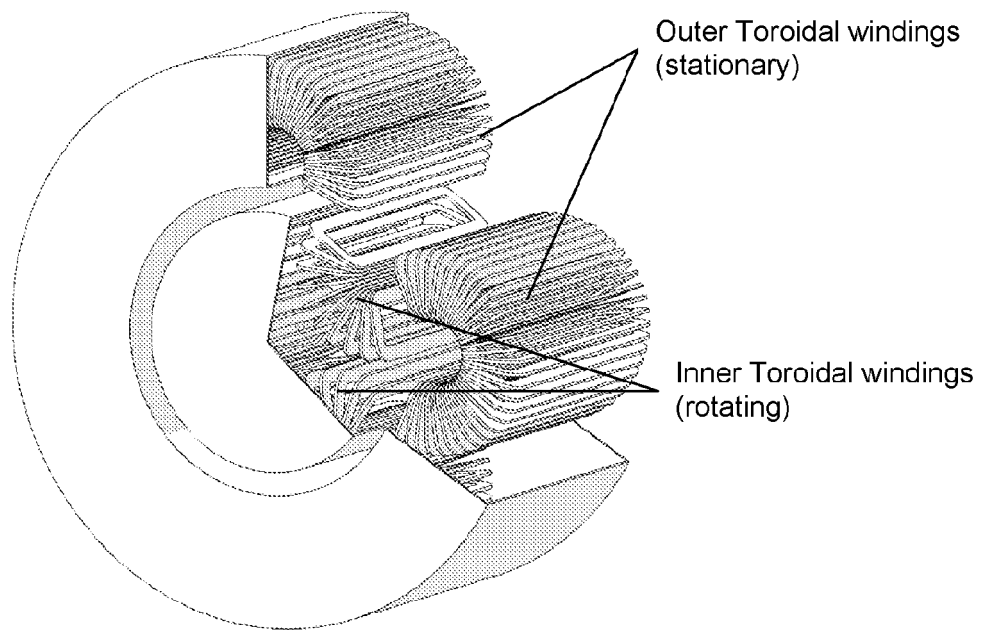


Figure 312

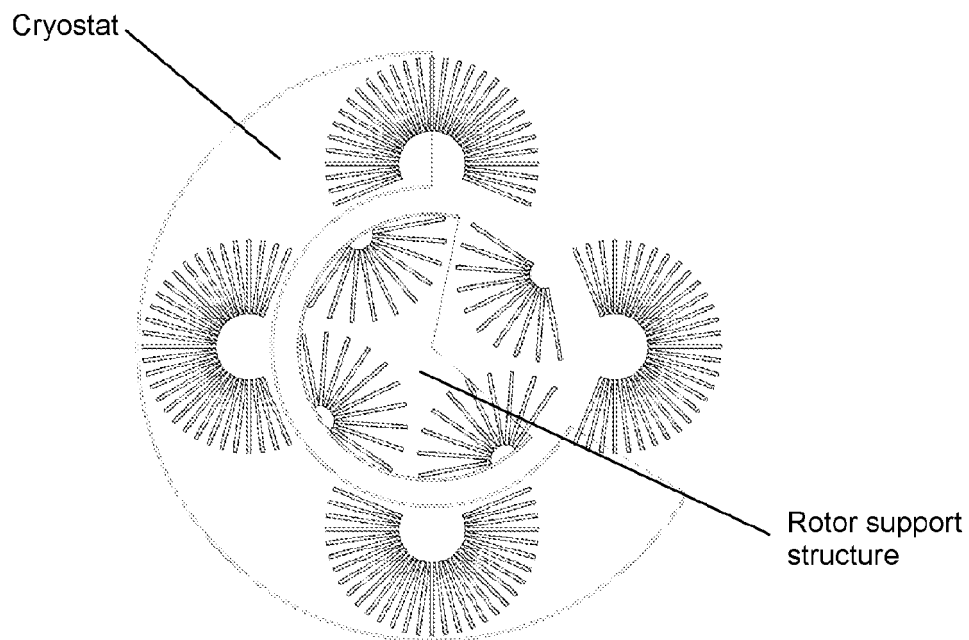


Figure 313

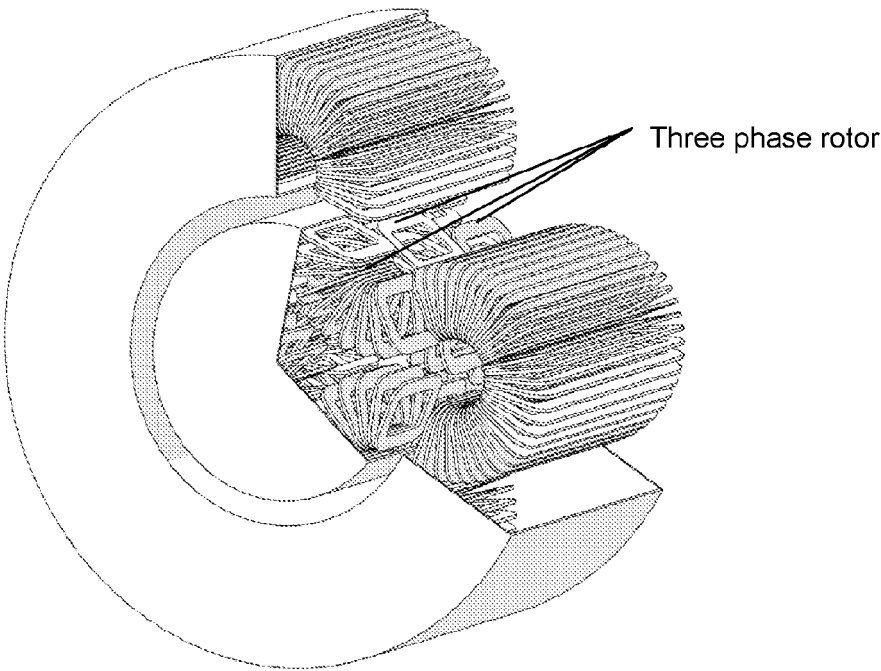


Figure 114

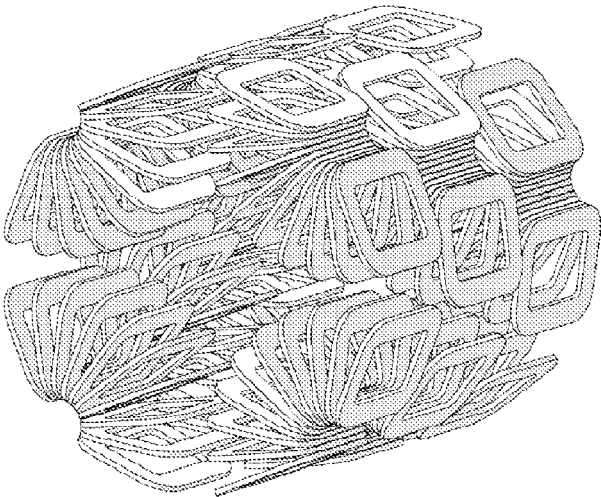


Figure 315

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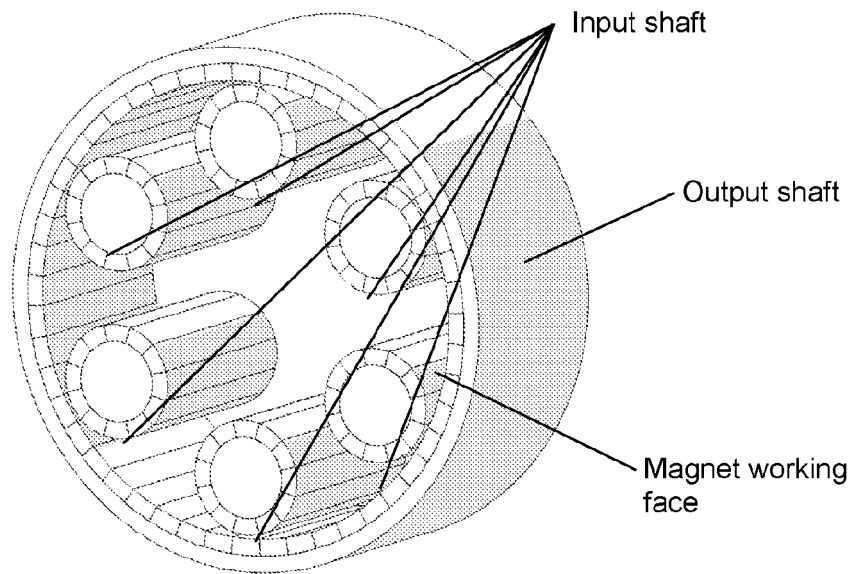


Figure 316

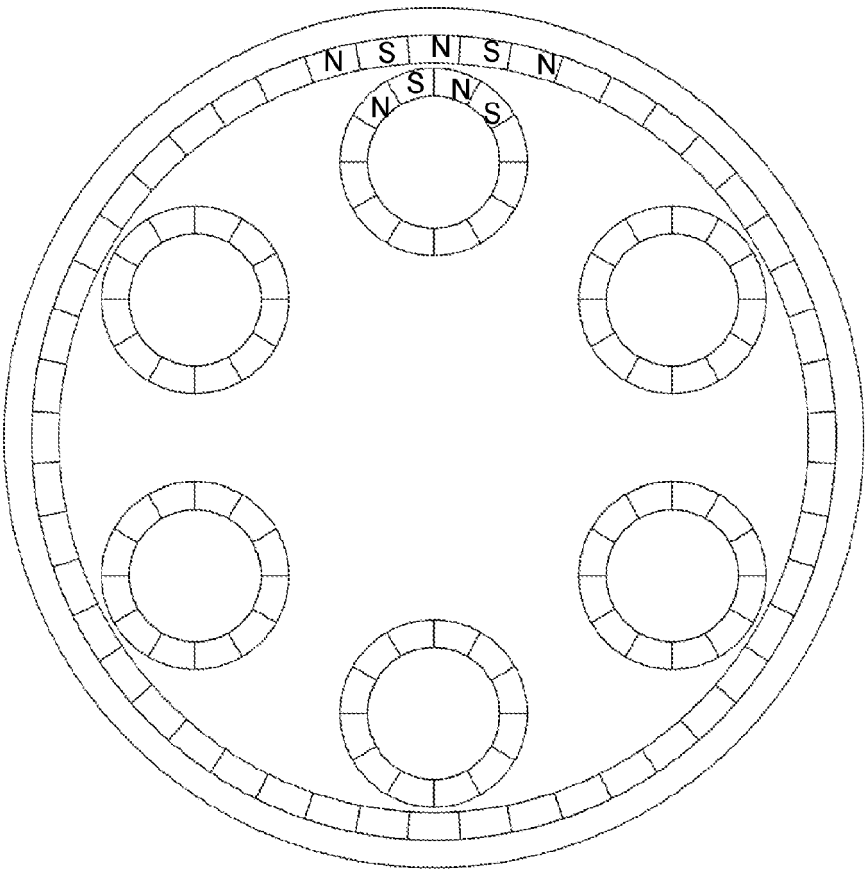


Figure 317

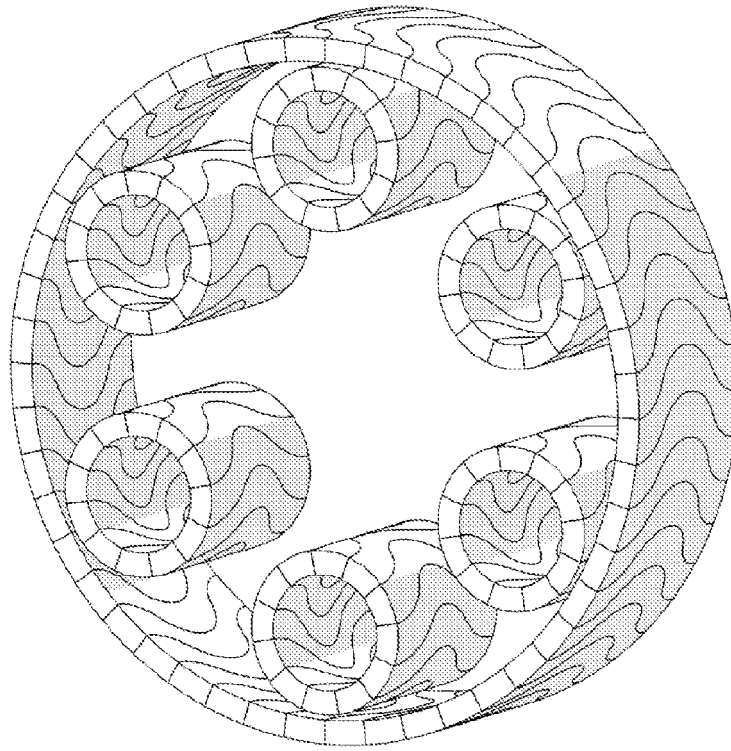


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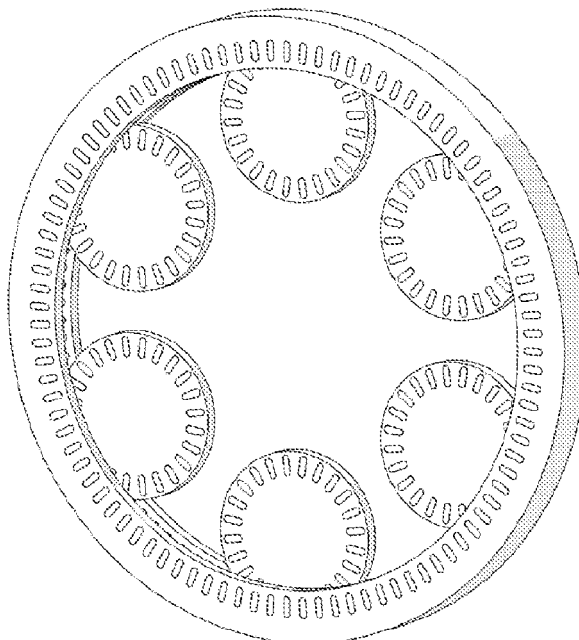


Figure 319

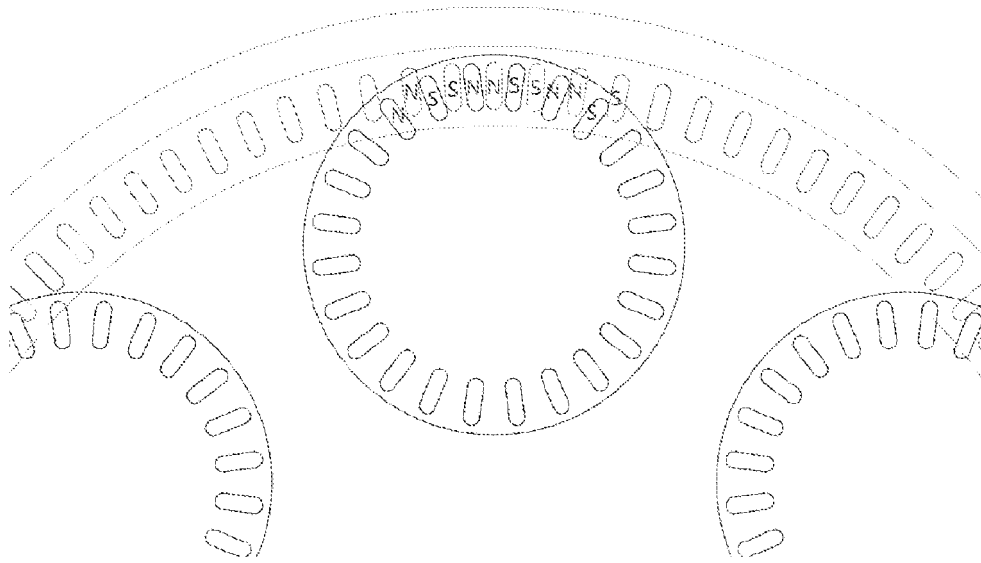


Figure 320

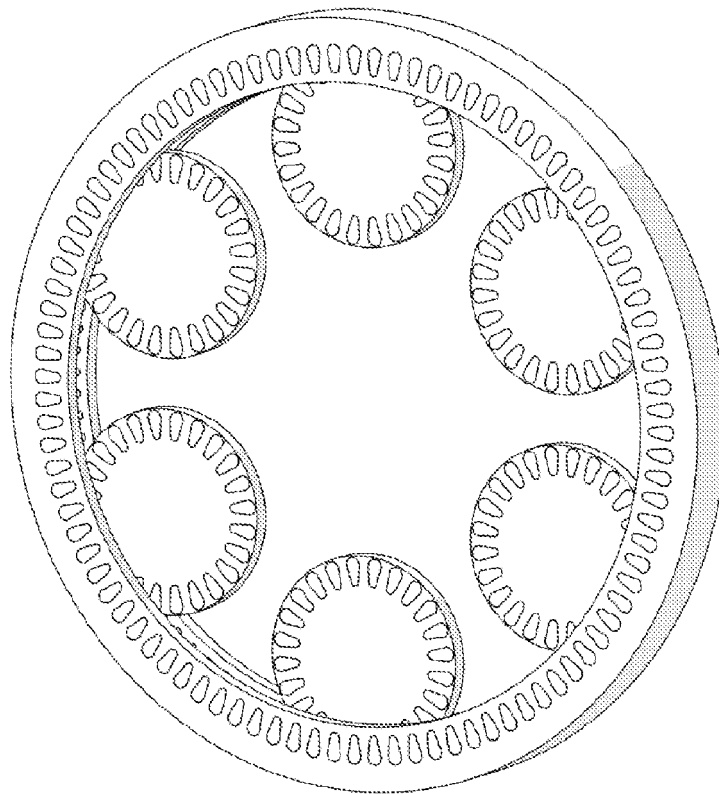


Figure 321

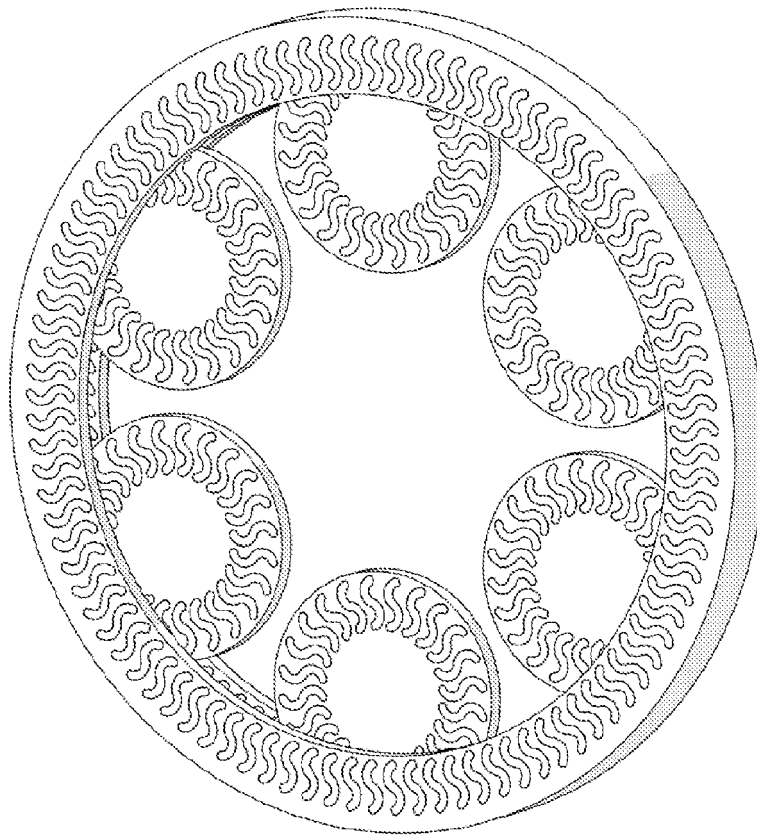


Figure 322