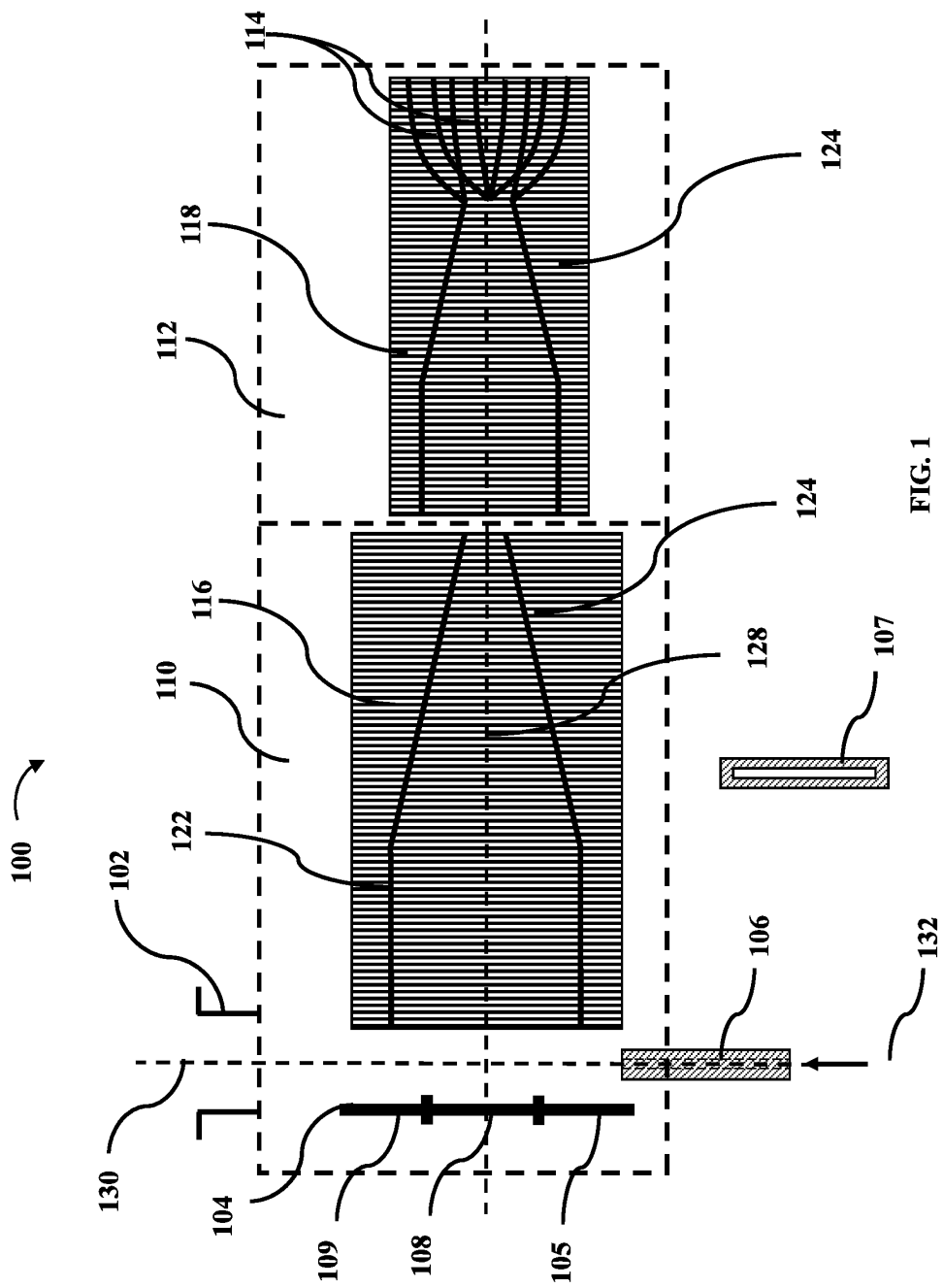




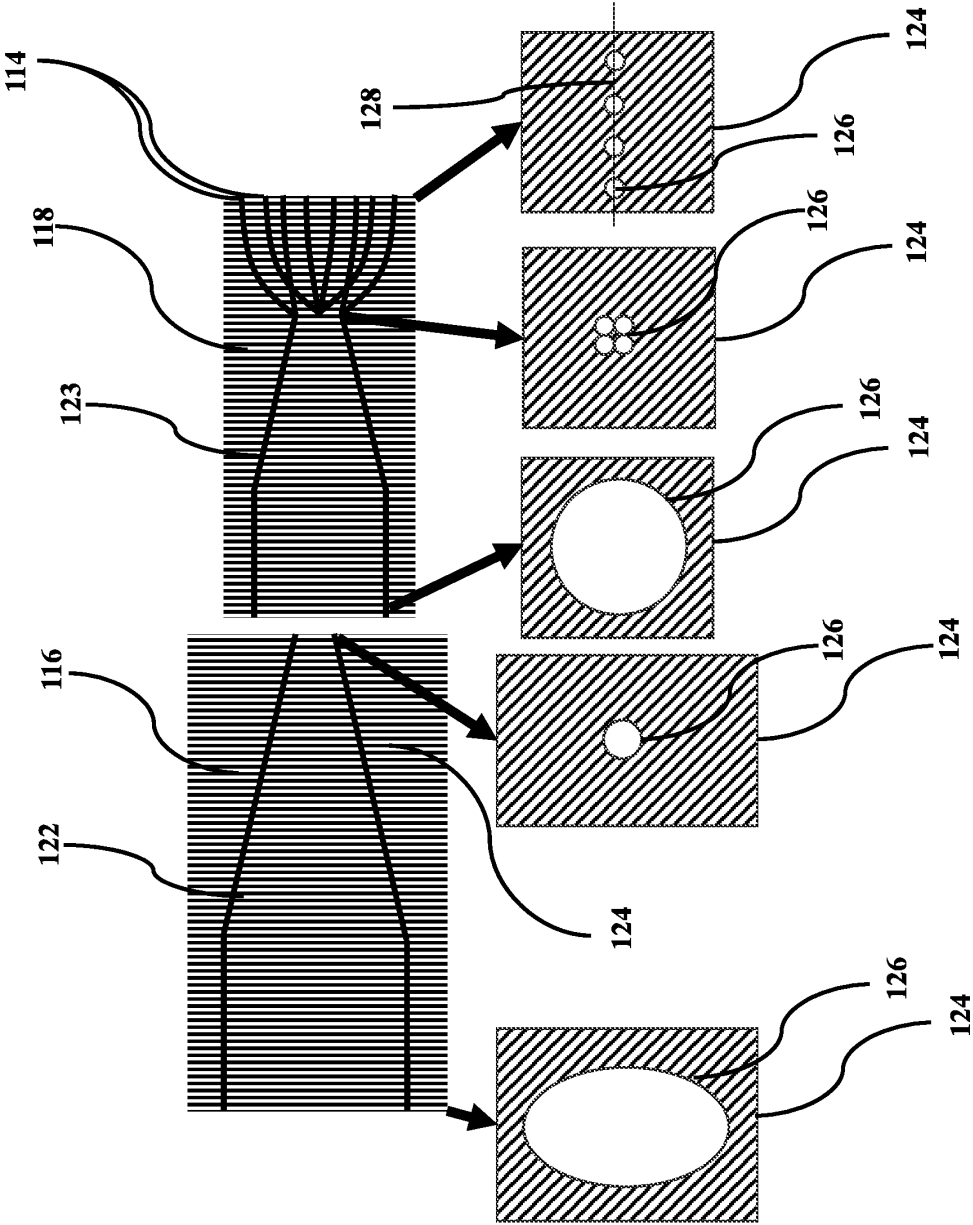


FIG. 2

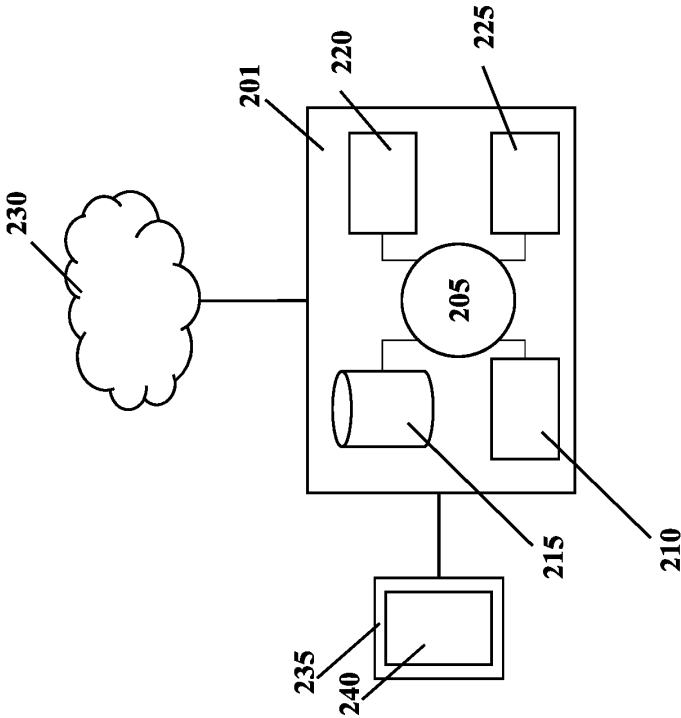


FIG. 3

400 

401

PROVIDING AN ION FLUX TO AN INLET OF AN ION MANIFOLD, WHERE THE ION MANIFOLD COMPRISES: AN ION MANIFOLD INLET; AN ION REPELLER MANIFOLD; A FIRST ION OPTIC CONFIGURED TO RECEIVE THE IONS FLUX THROUGH THE ION MANIFOLD INLET; AND A SECOND ION OPTIC CONFIGURED TO RECEIVE AN OUTPUT OF THE ION FLUX THROUGH THE FIRST ION OPTIC, WHERE THE SECOND ION OPTIC COMPRISES A PLURALITY OF OUTPUTS



402

GENERATING A PLURALITY OF ION STREAMS FROM THE PLURALITY OF OUTPUTS OF THE SECOND ION OPTIC WHEN THE ION FLUX TRAVERSES THROUGH THE SECOND ION OPTIC

FIG. 4

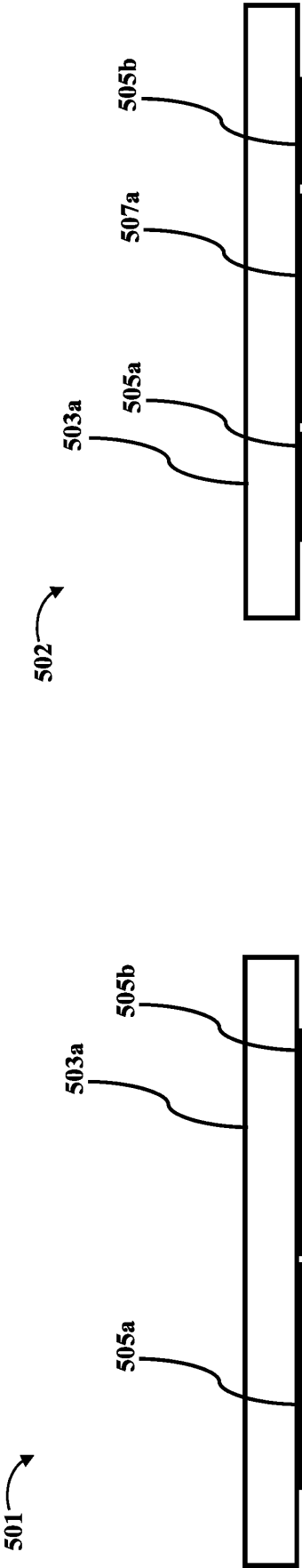


FIG. 5B

FIG. 5A

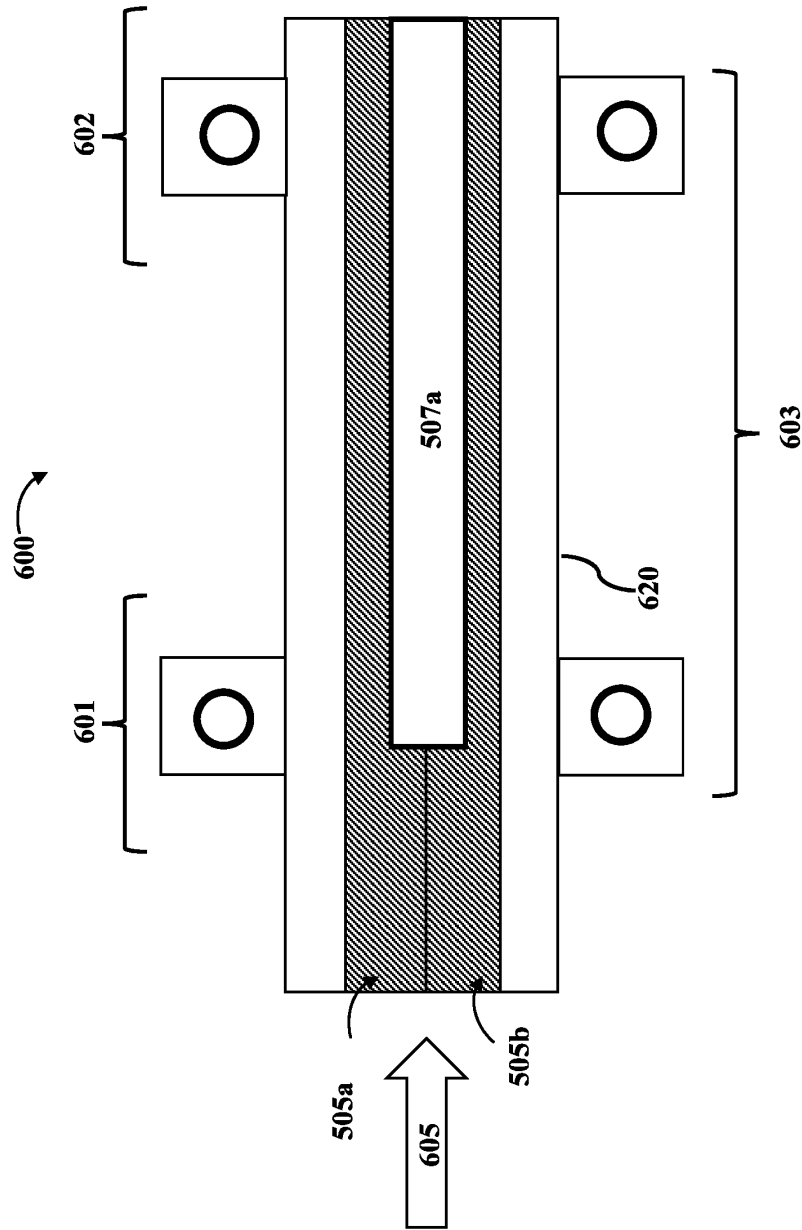


FIG.
6

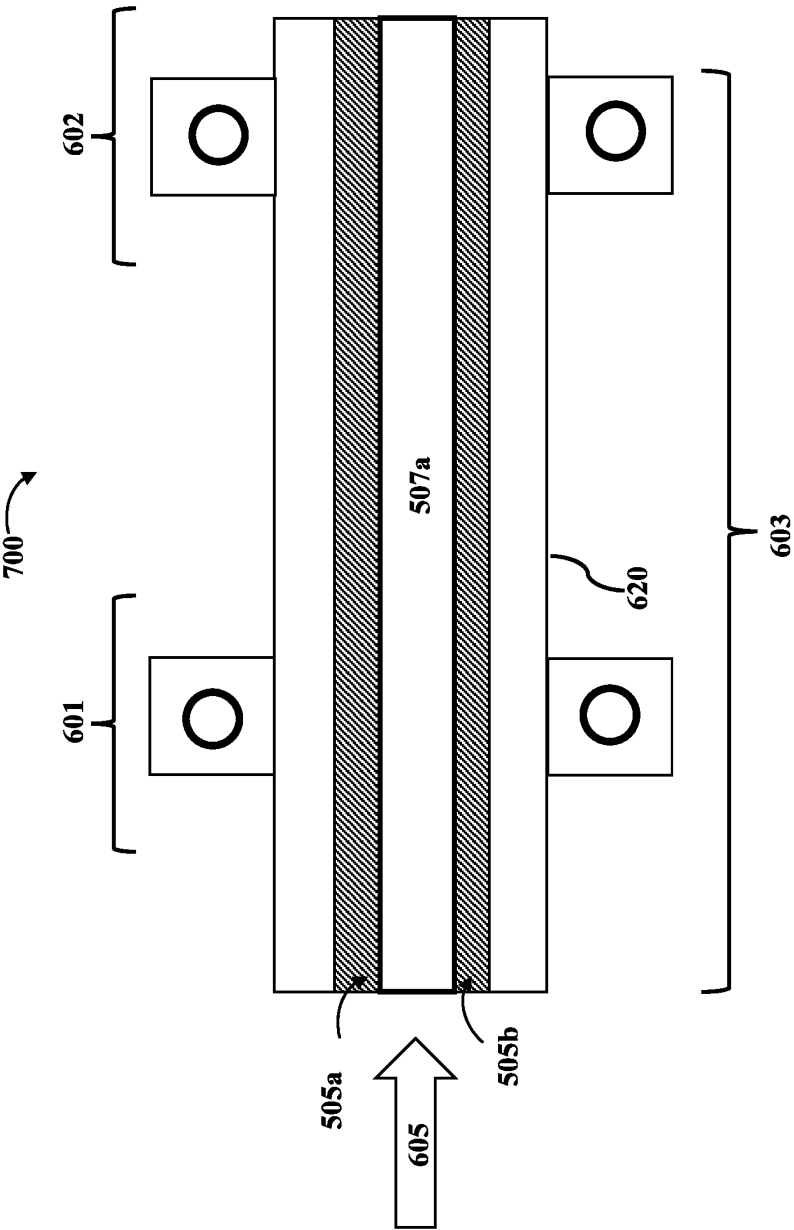


FIG.
7

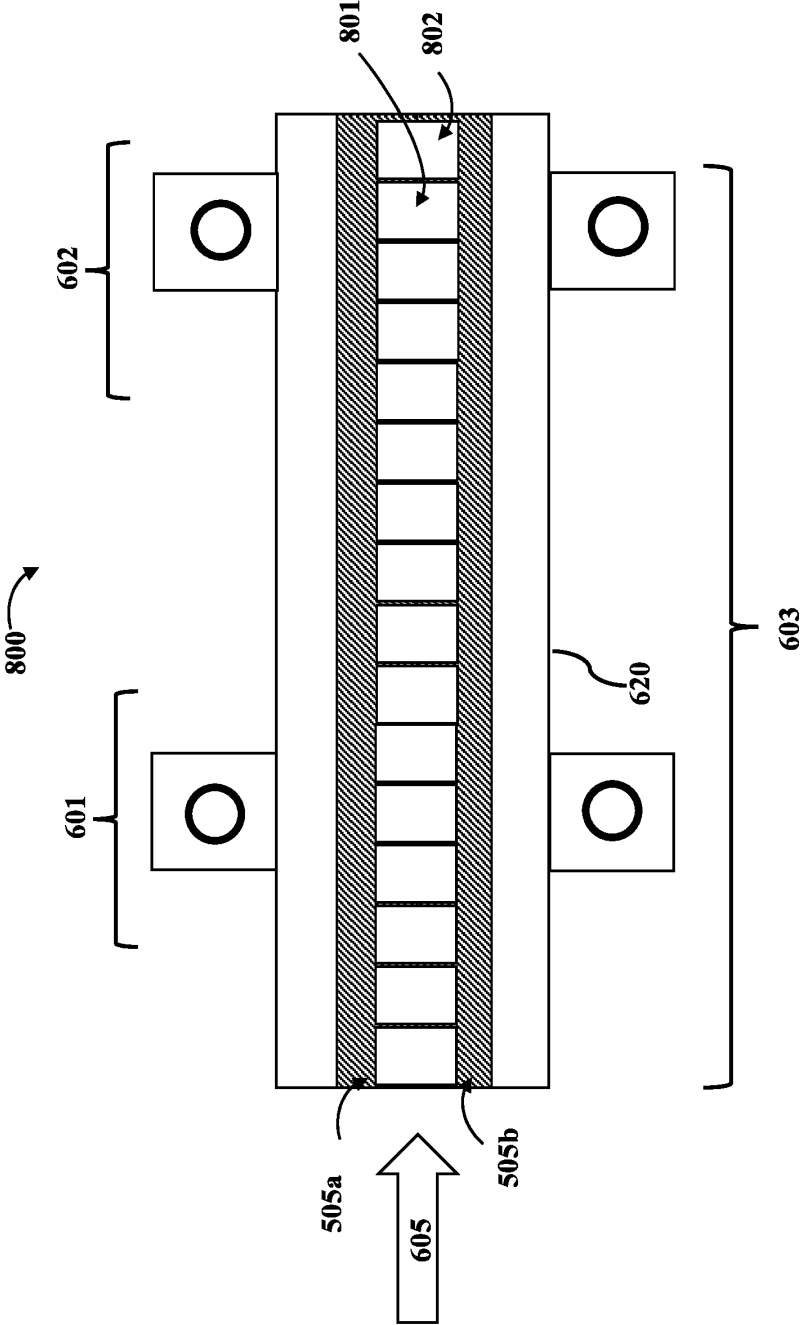


FIG.
8

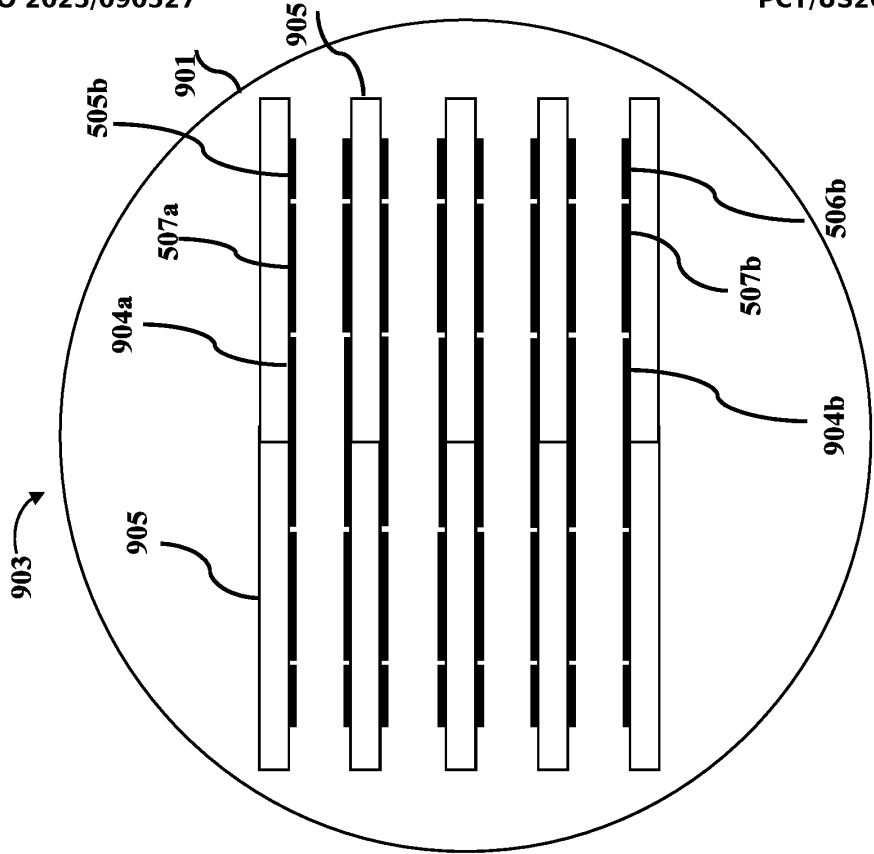


FIG. 9B

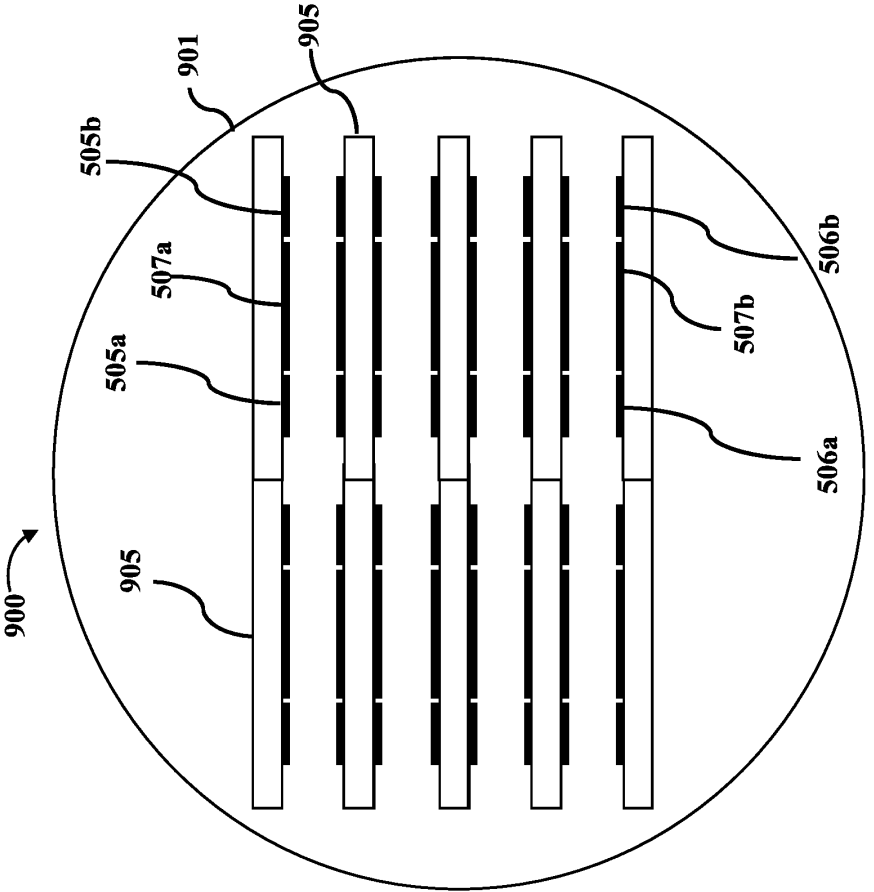


FIG. 9A

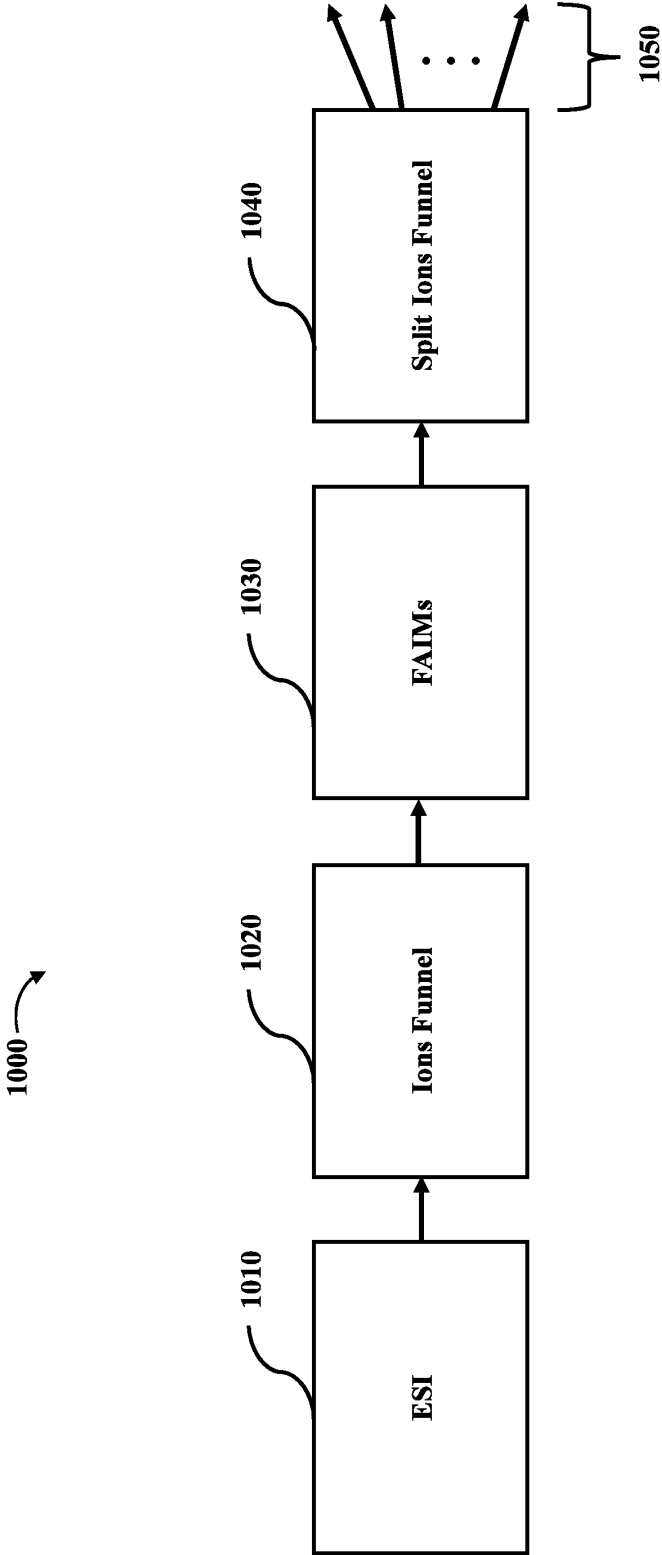
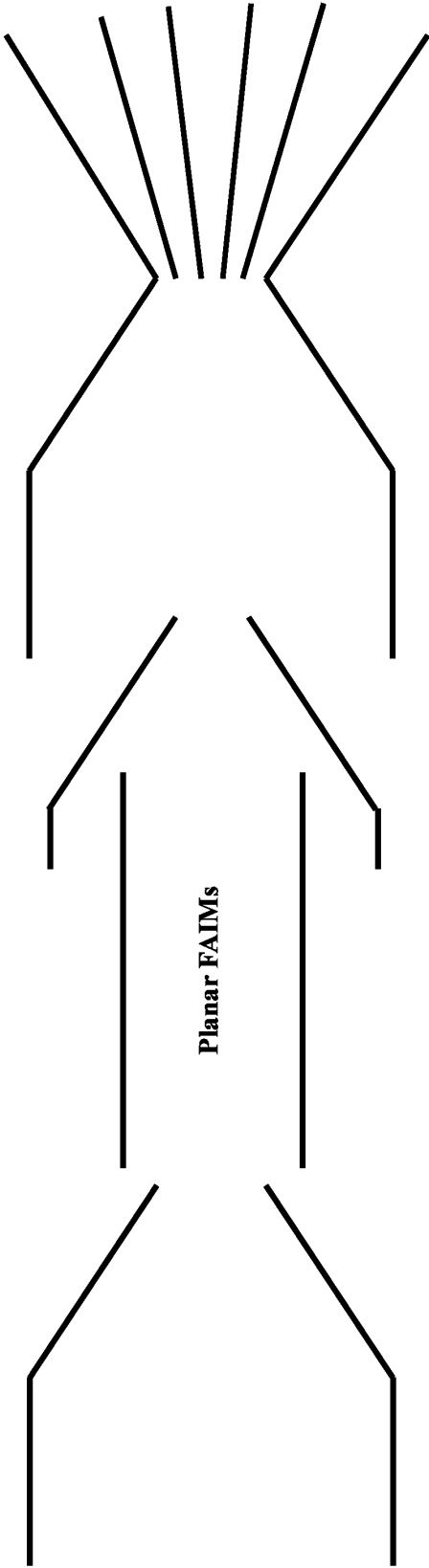


FIG. 10

1100



Planar FAIMs

1020

1030

1035

1040

1050

FIG. 11

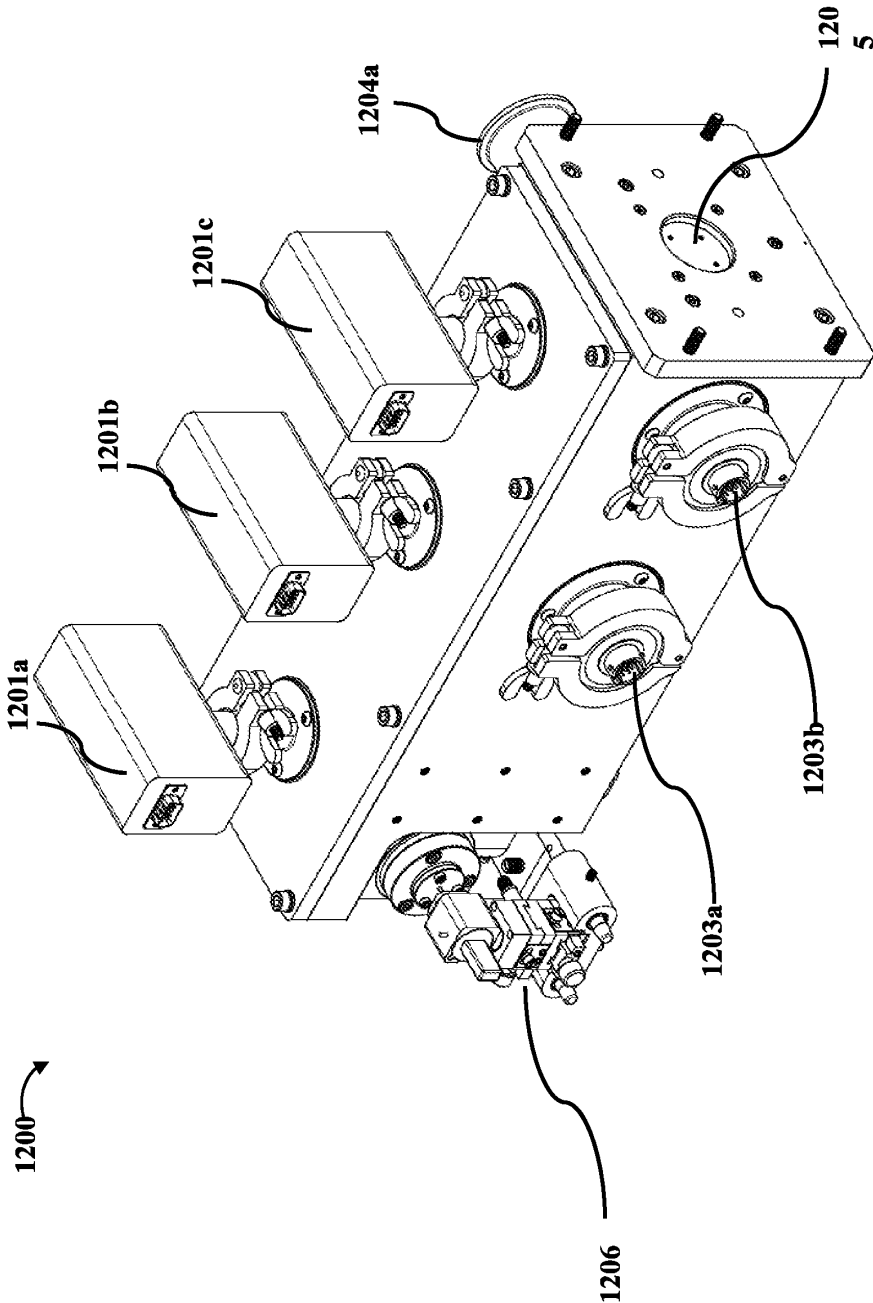


FIG. 12A

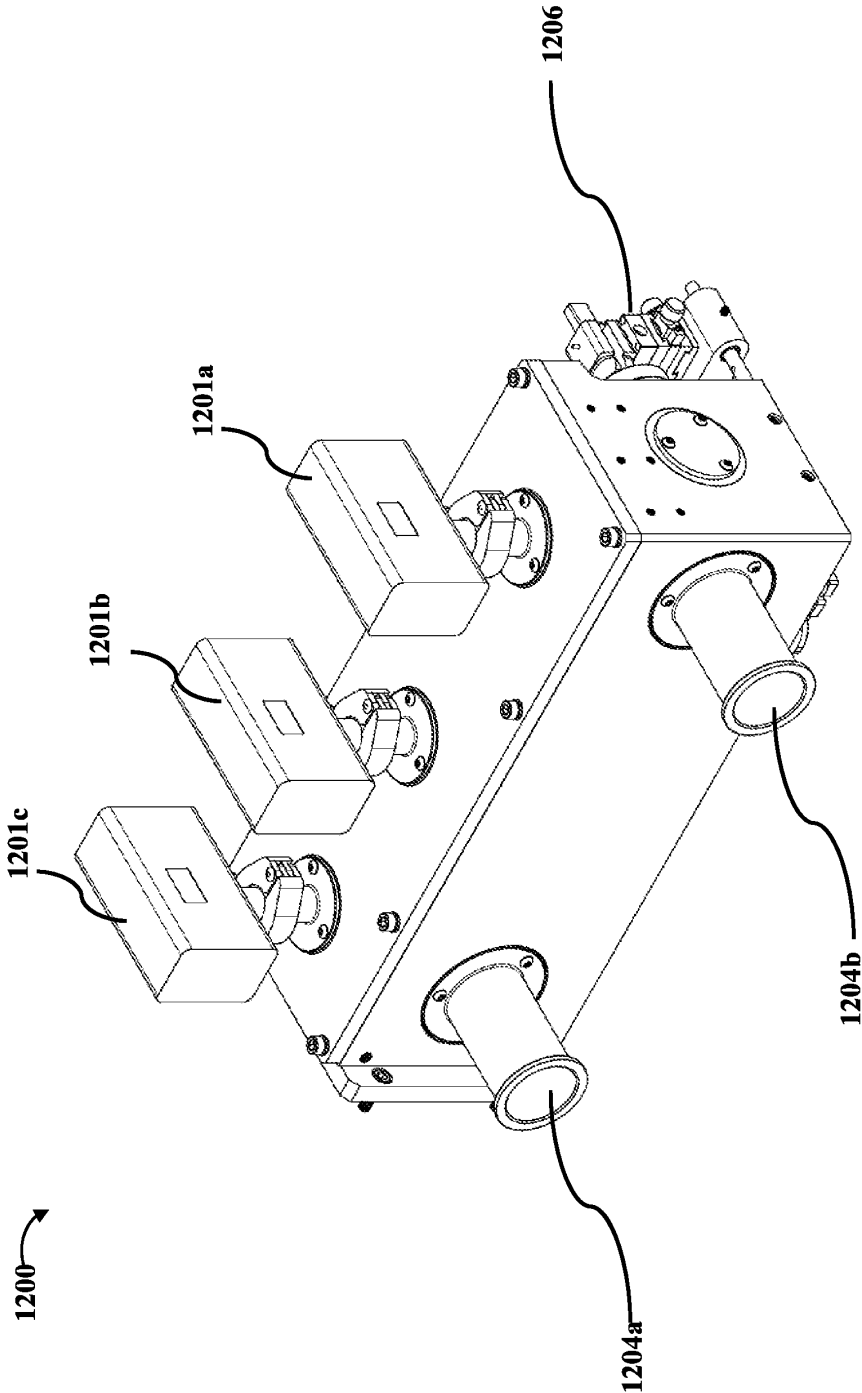


FIG. 12B

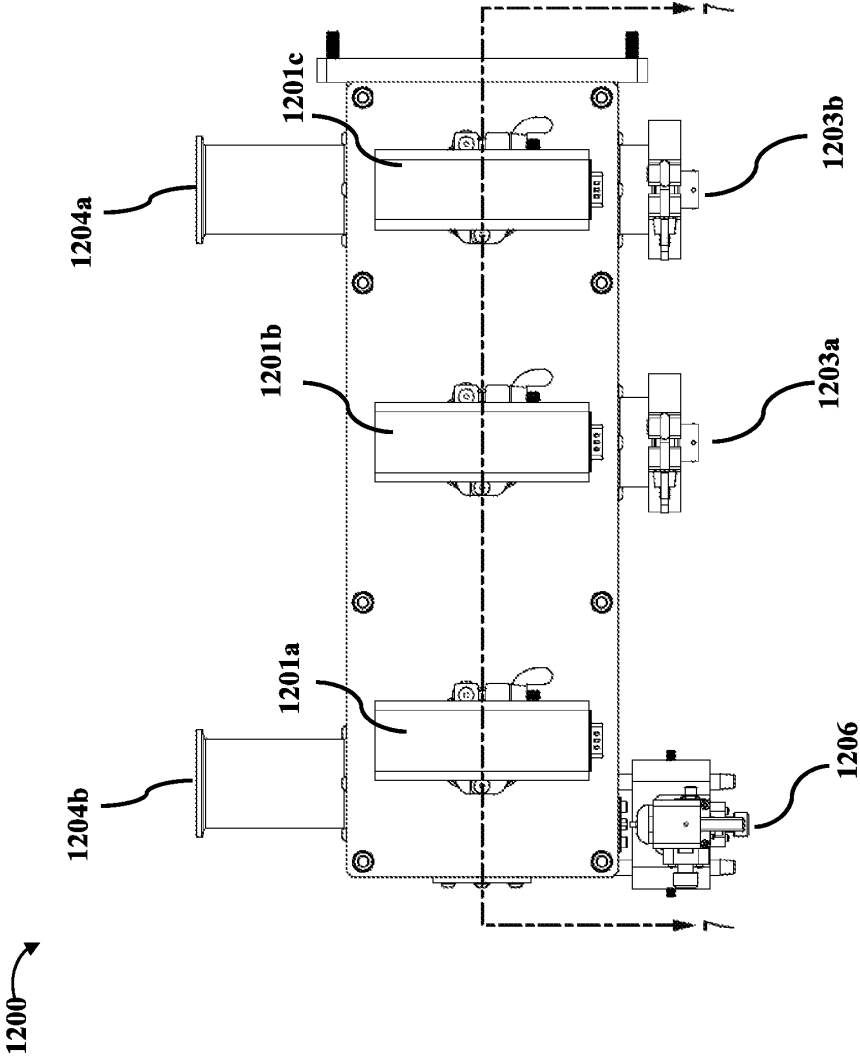


FIG. 12C

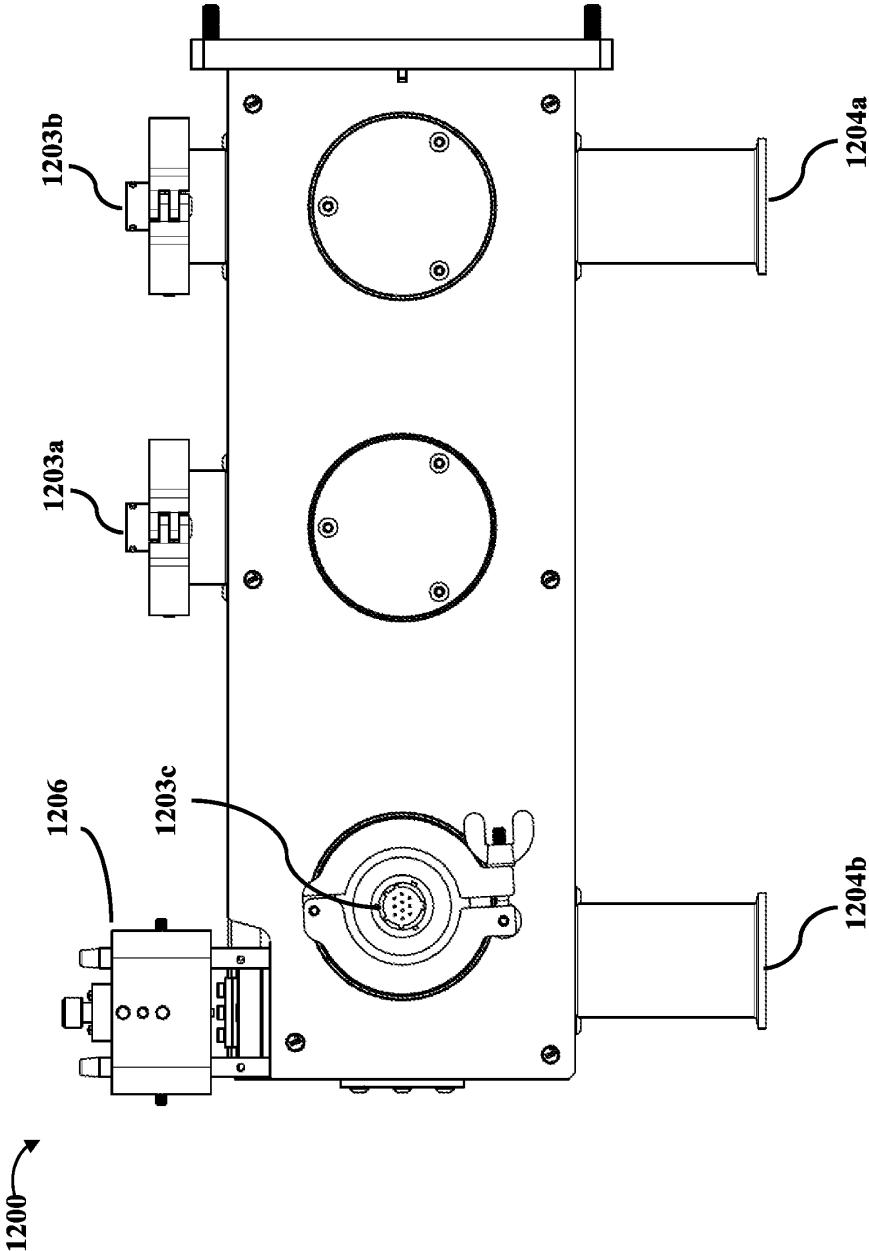
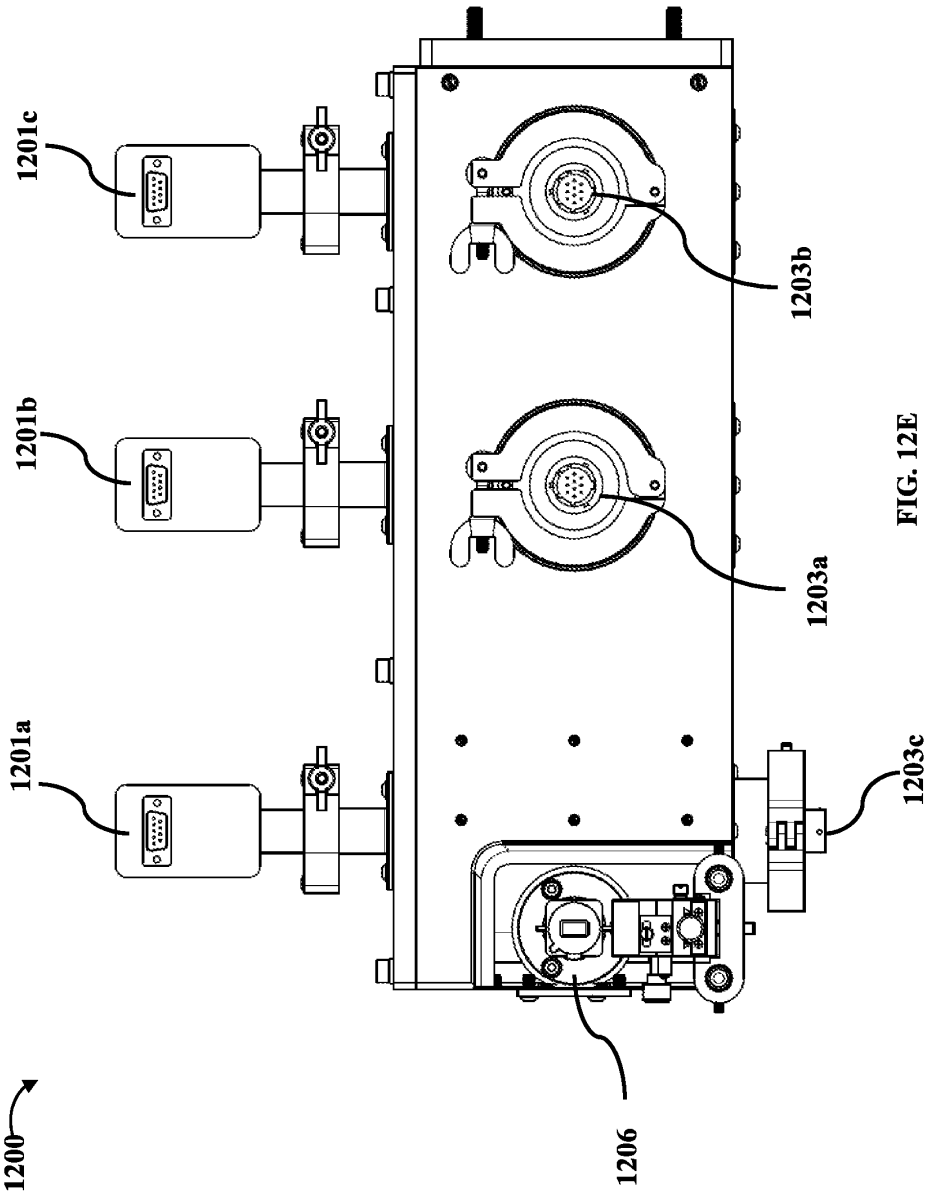


FIG. 12D



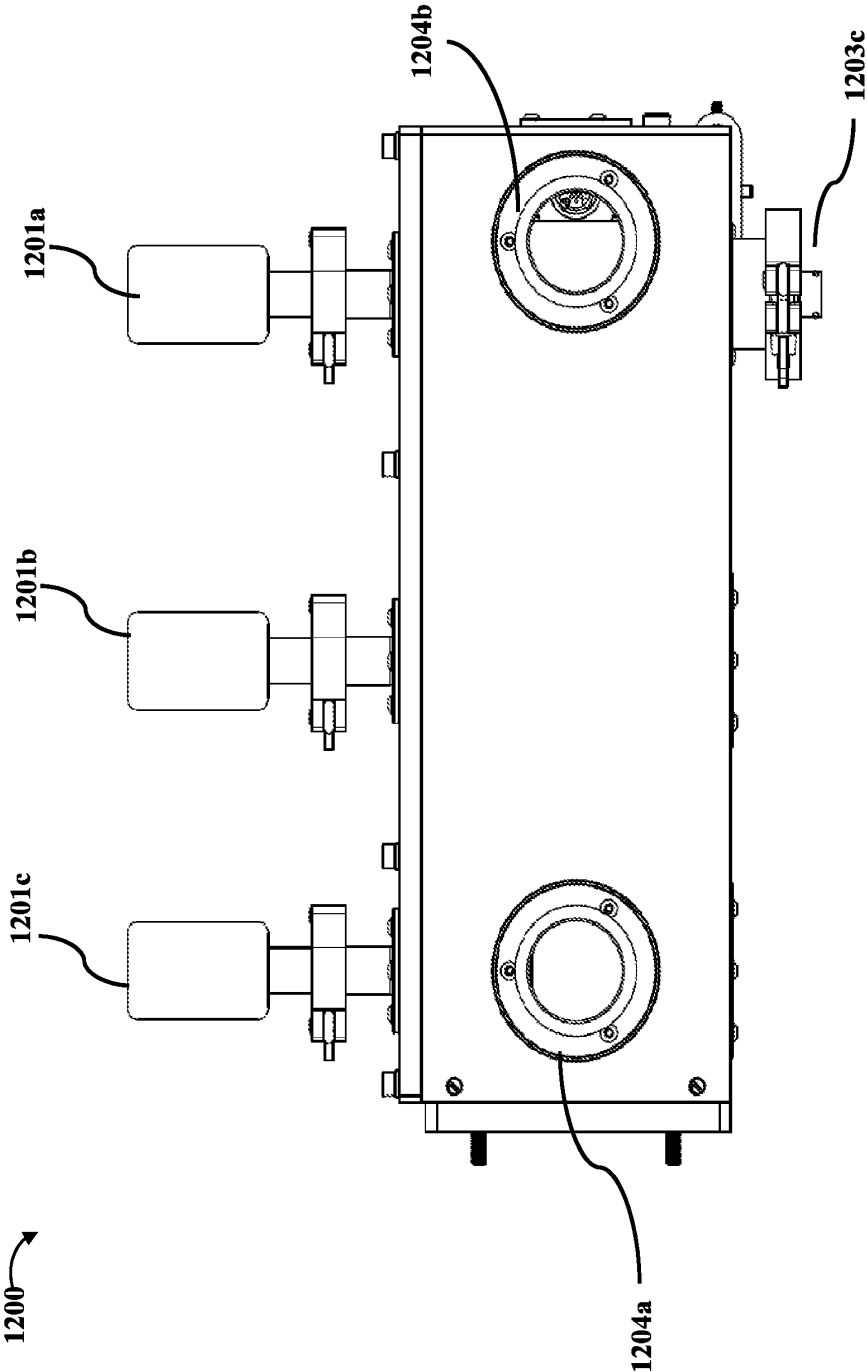


FIG. 12F

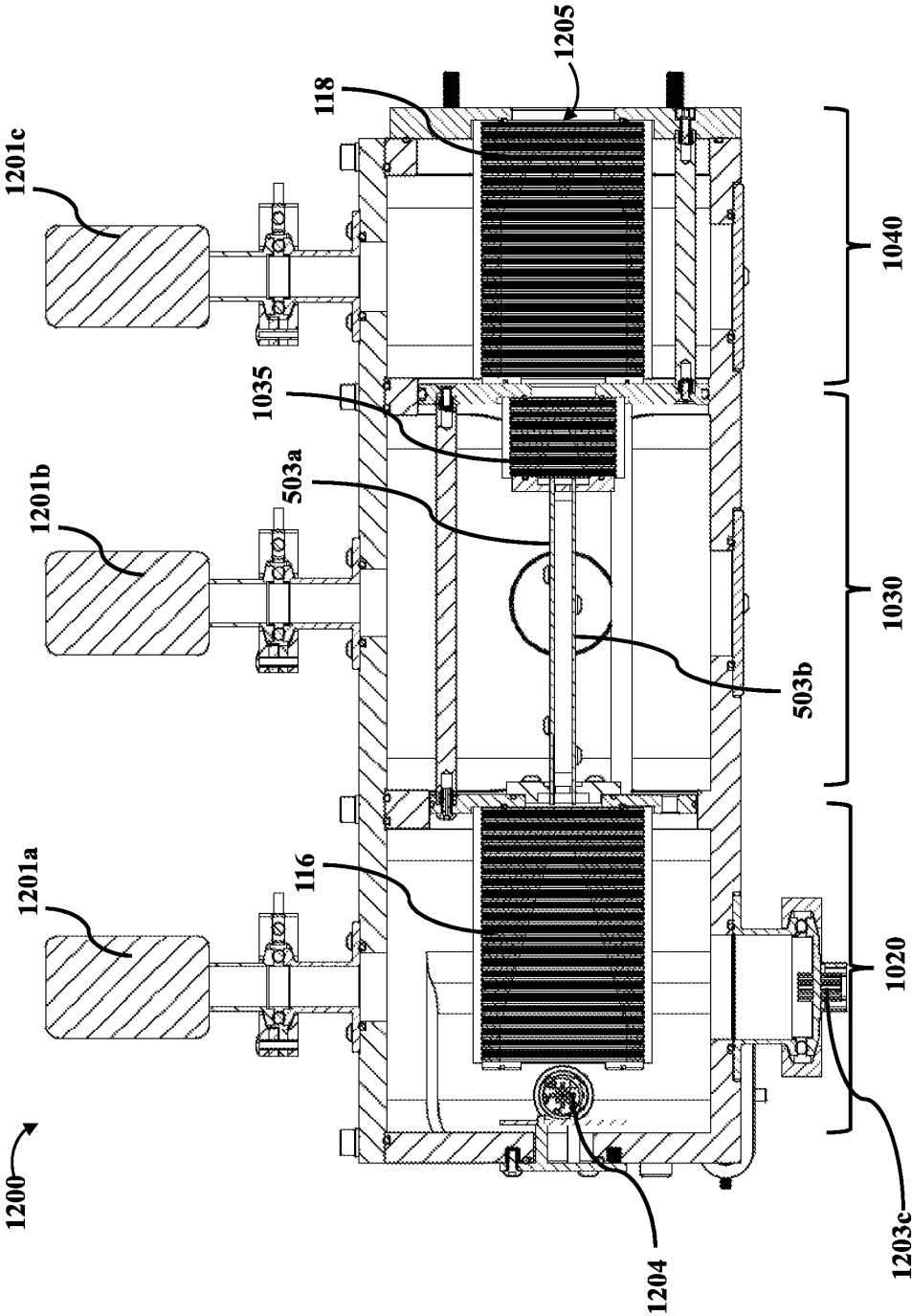


FIG. 12G

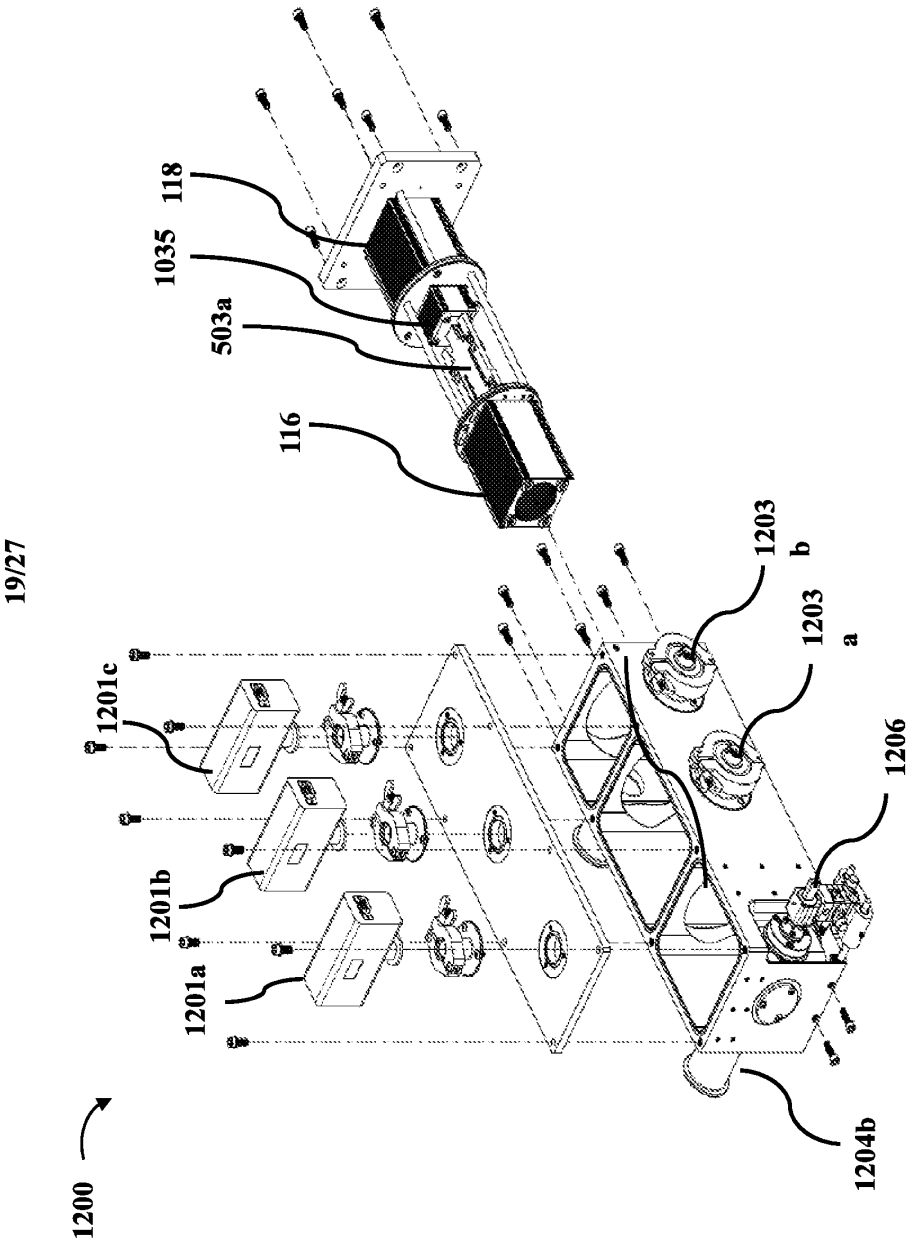


FIG. 12H

20/27

1300

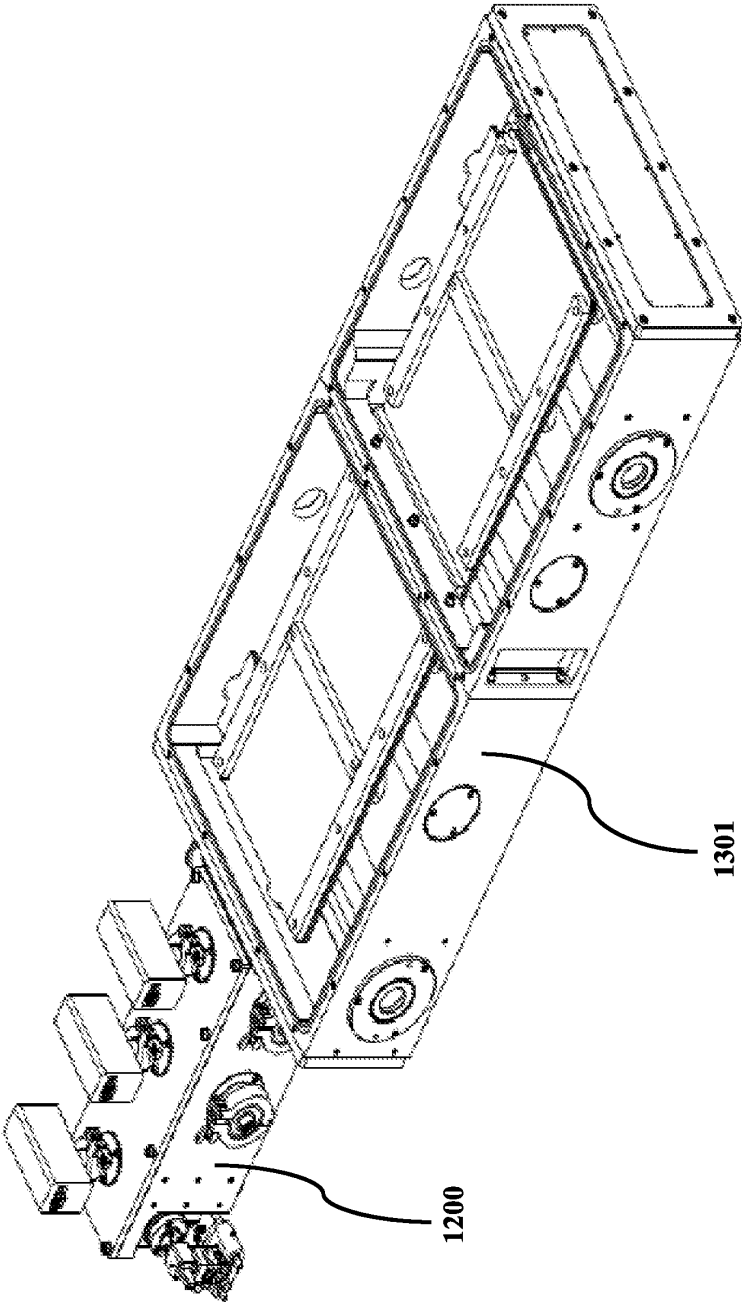


FIG. 13A

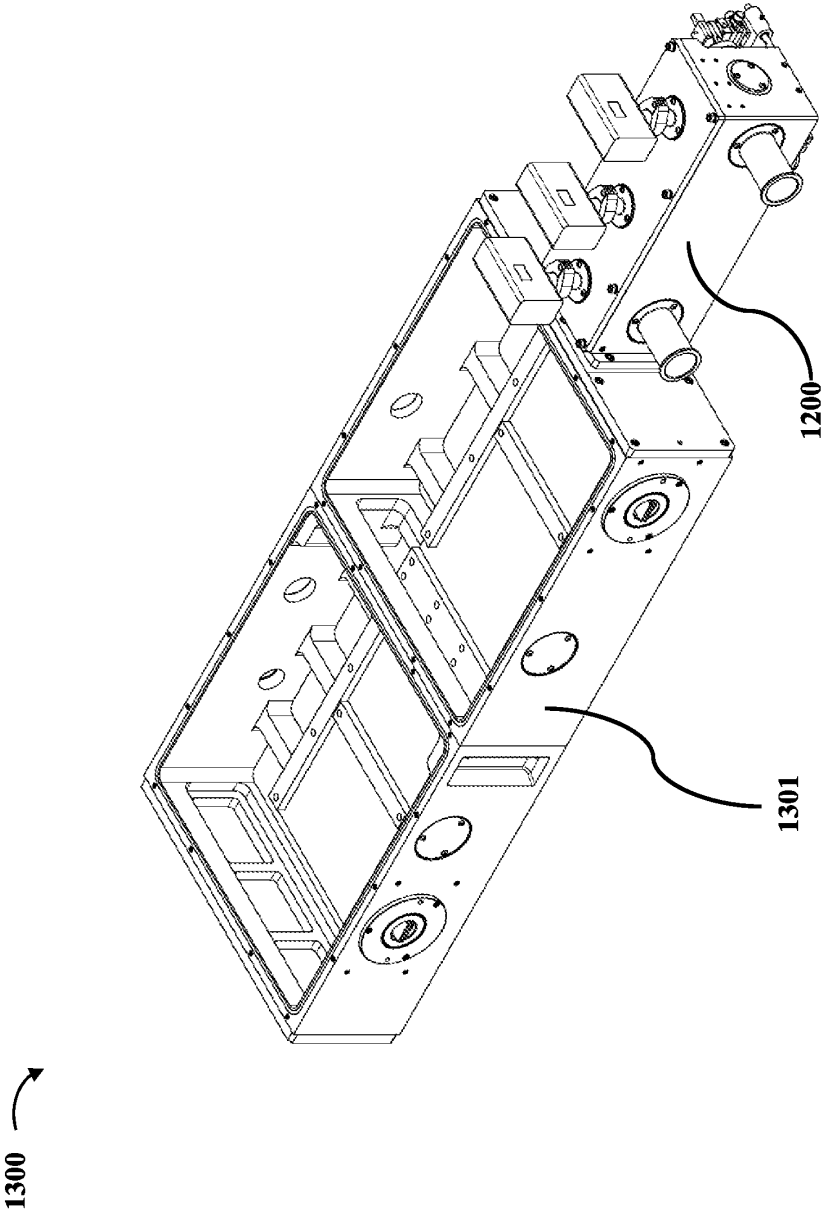


FIG. 13B

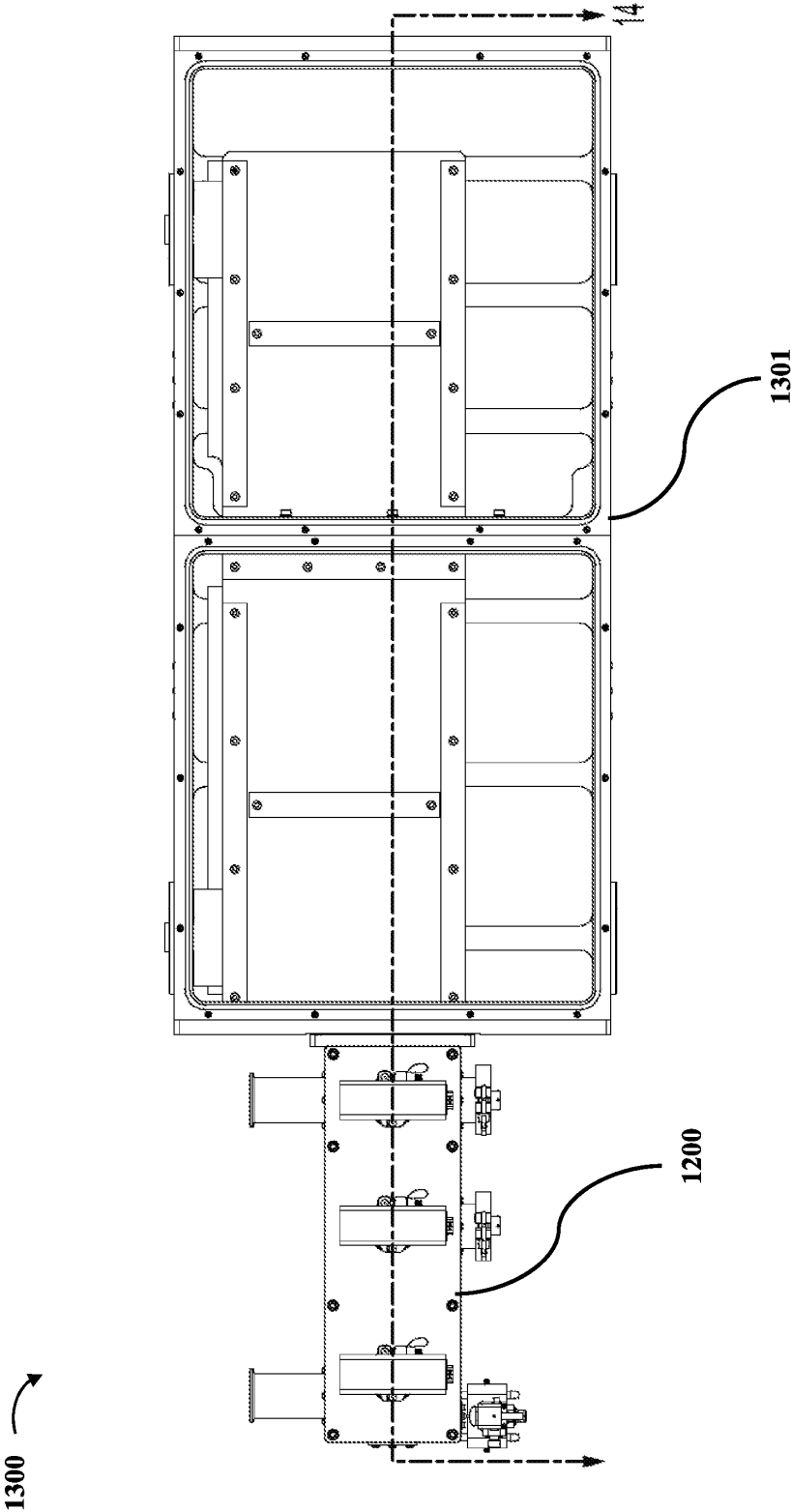


FIG. 13C

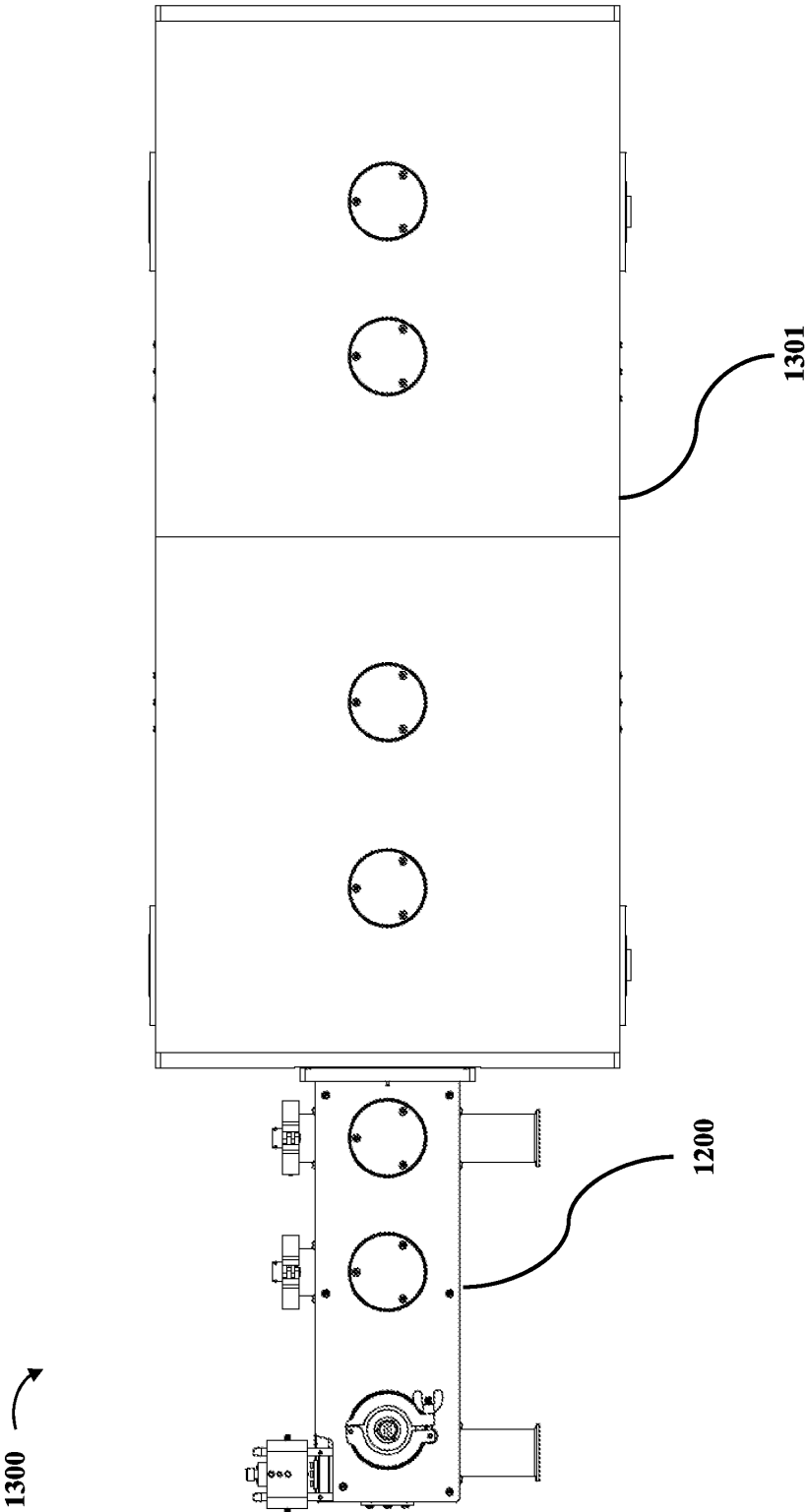


FIG. 13D

1300

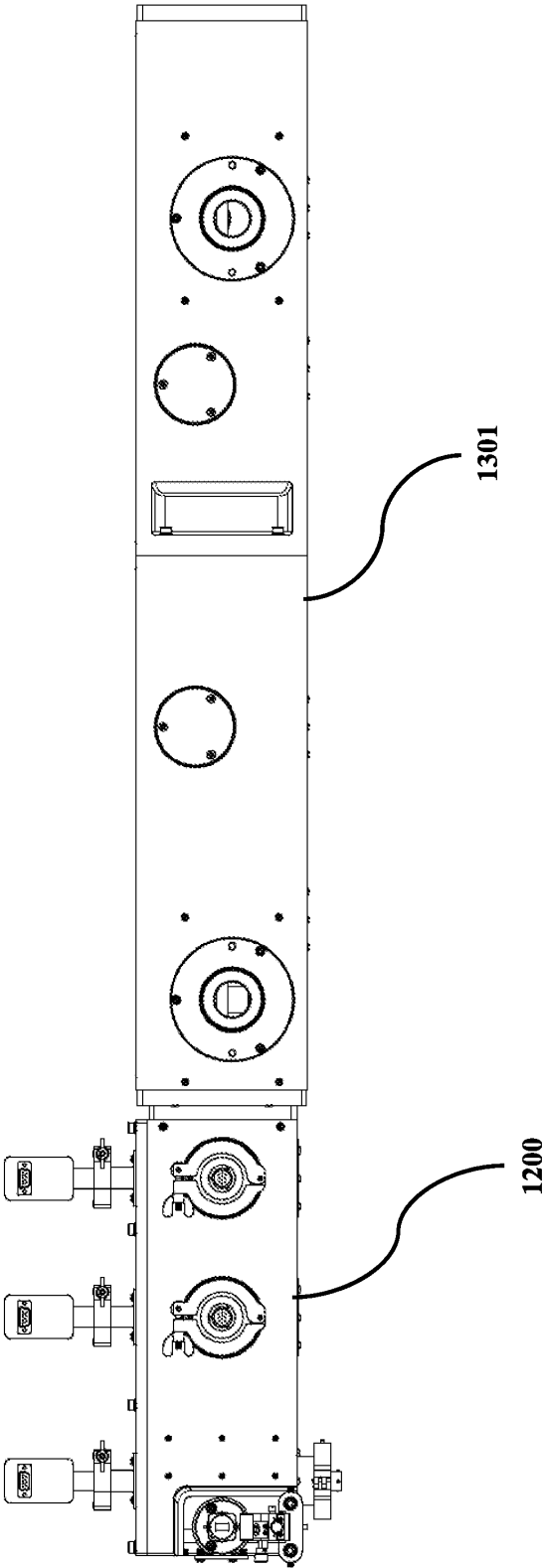


FIG. 13E

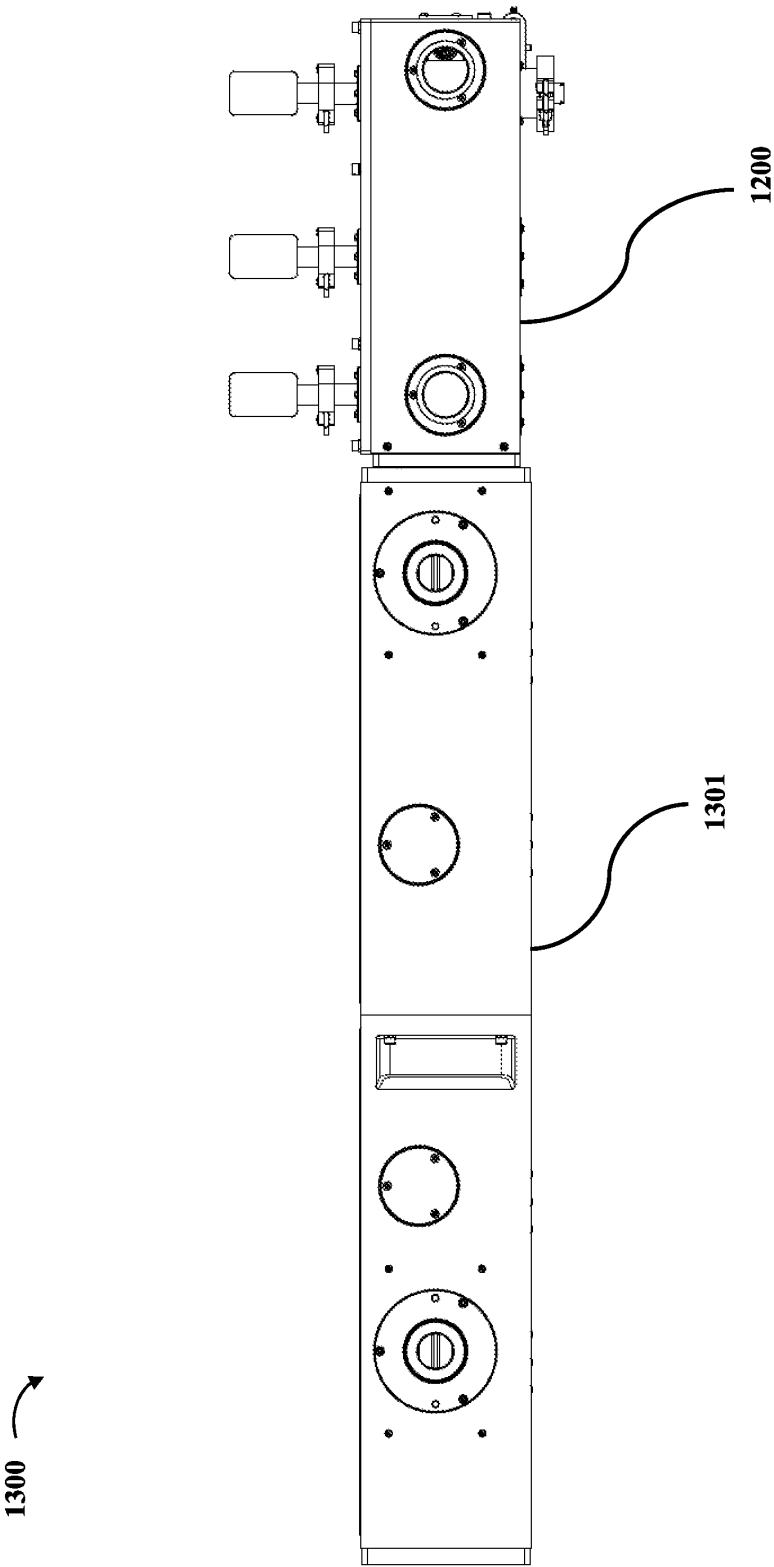


FIG. 13F

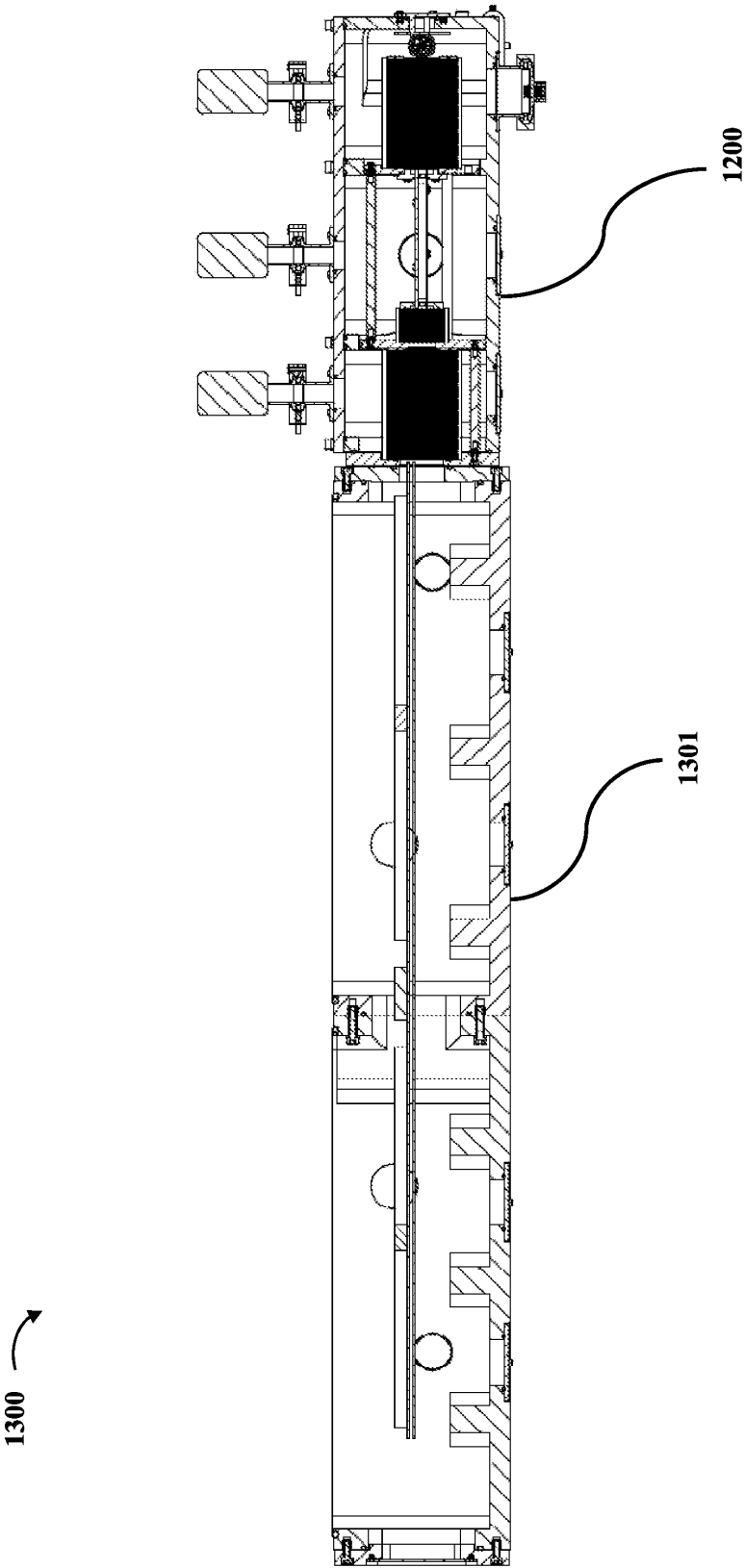


FIG. 13G

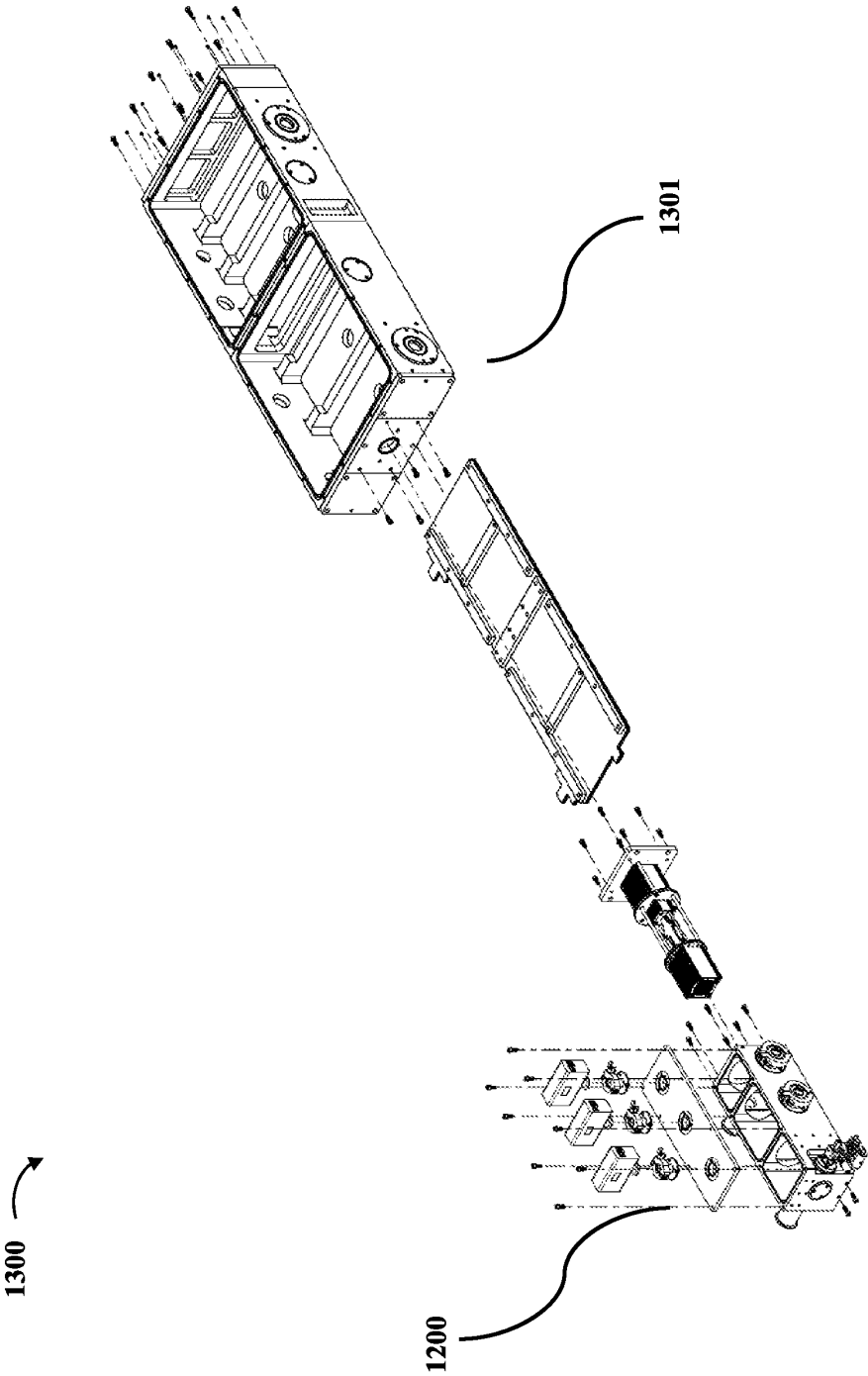


FIG. 13H

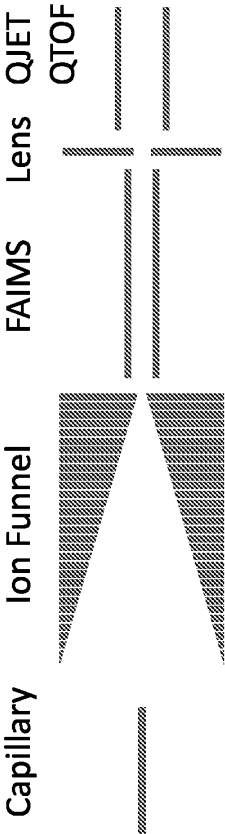


FIG. 14A

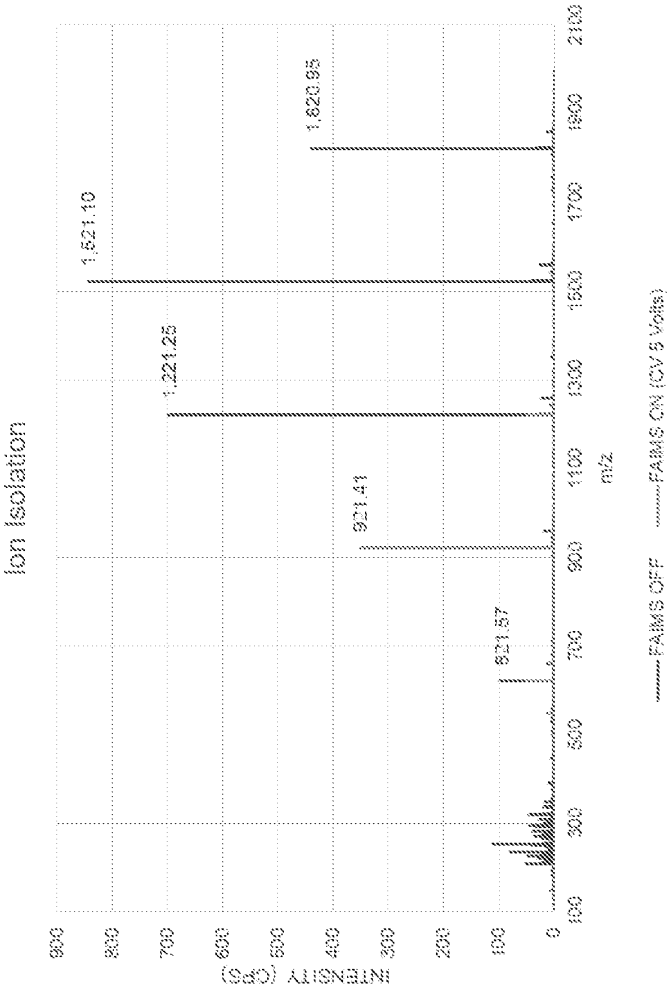


FIG. 14B

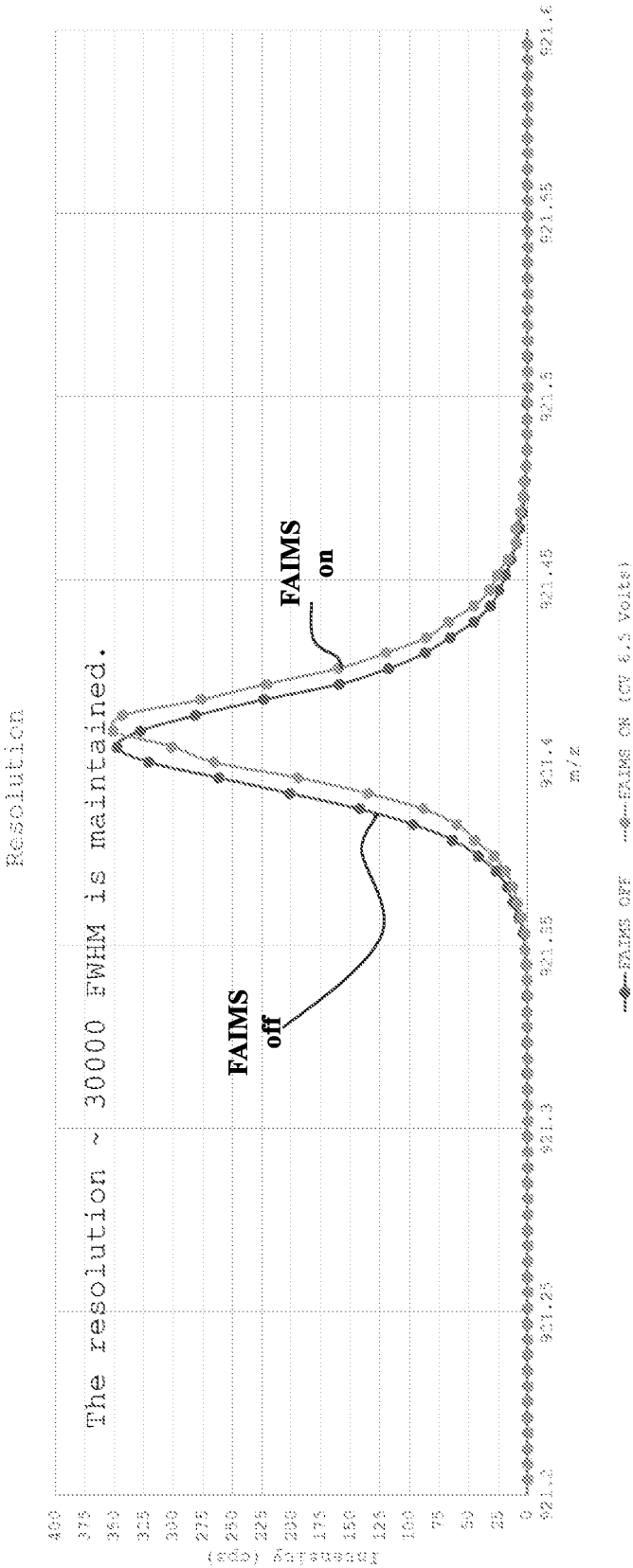
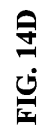


FIG. 14C



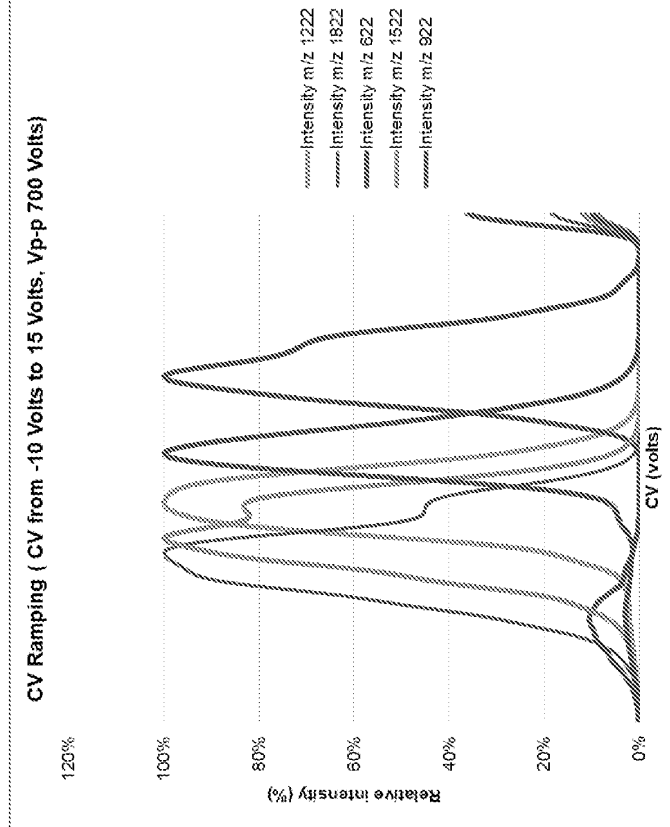


FIG. 14F

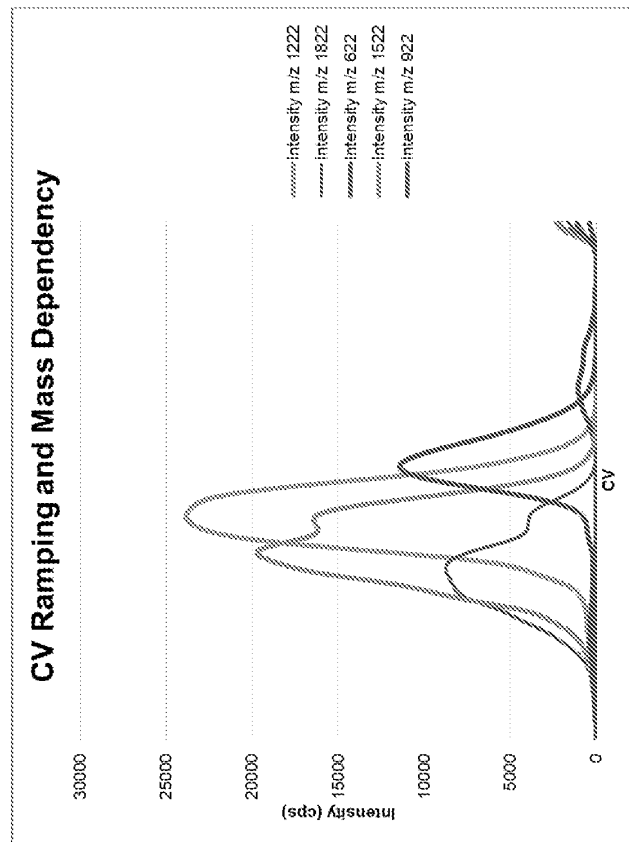


FIG. 14E

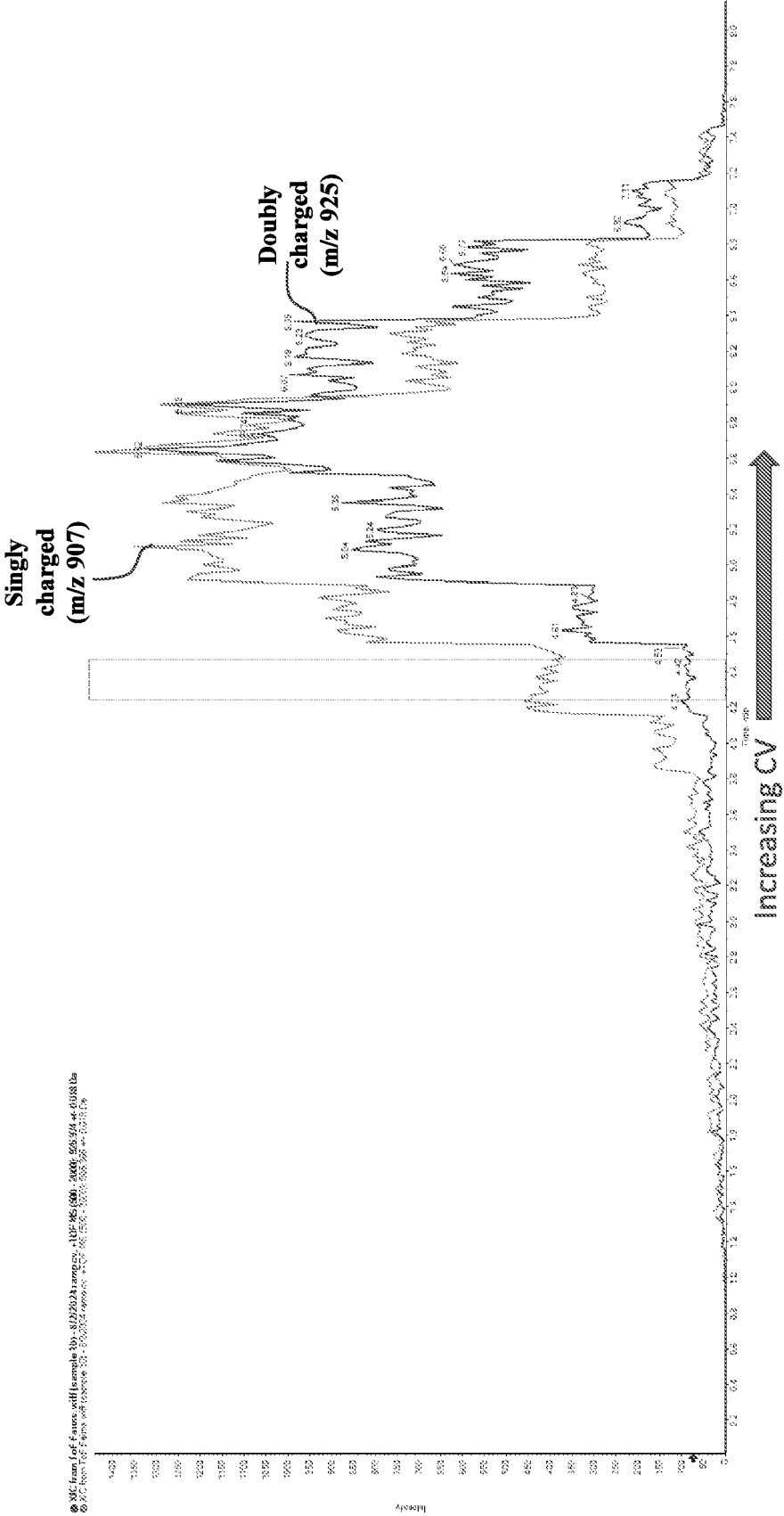


FIG. 14G

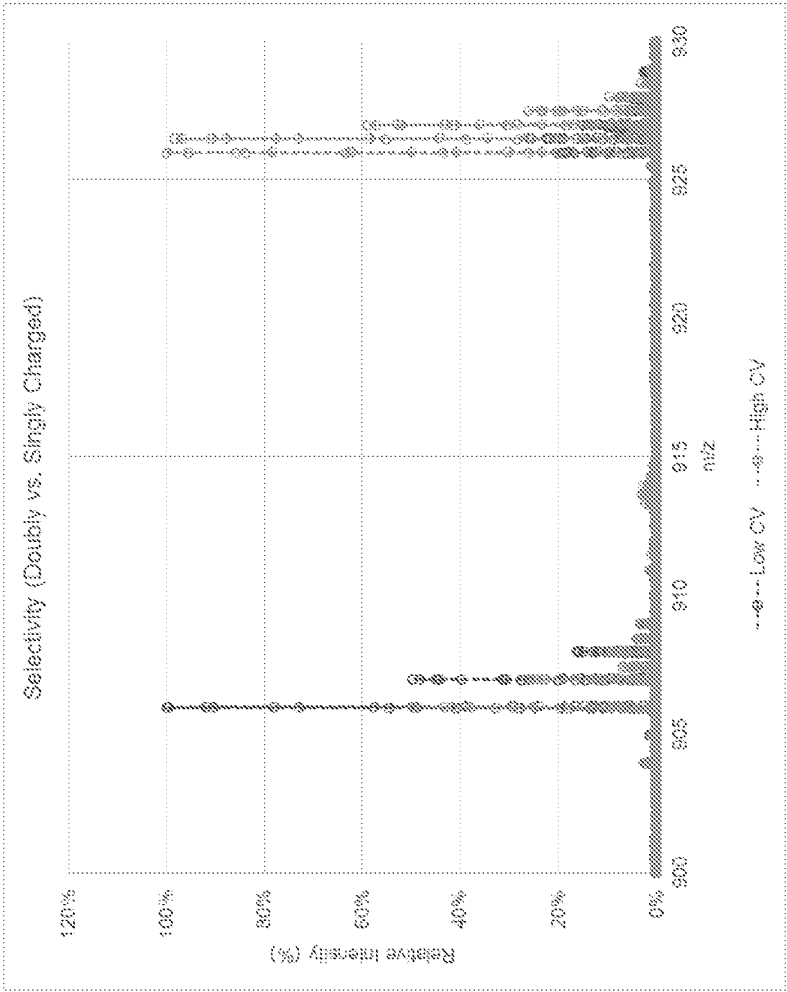


FIG. 14H

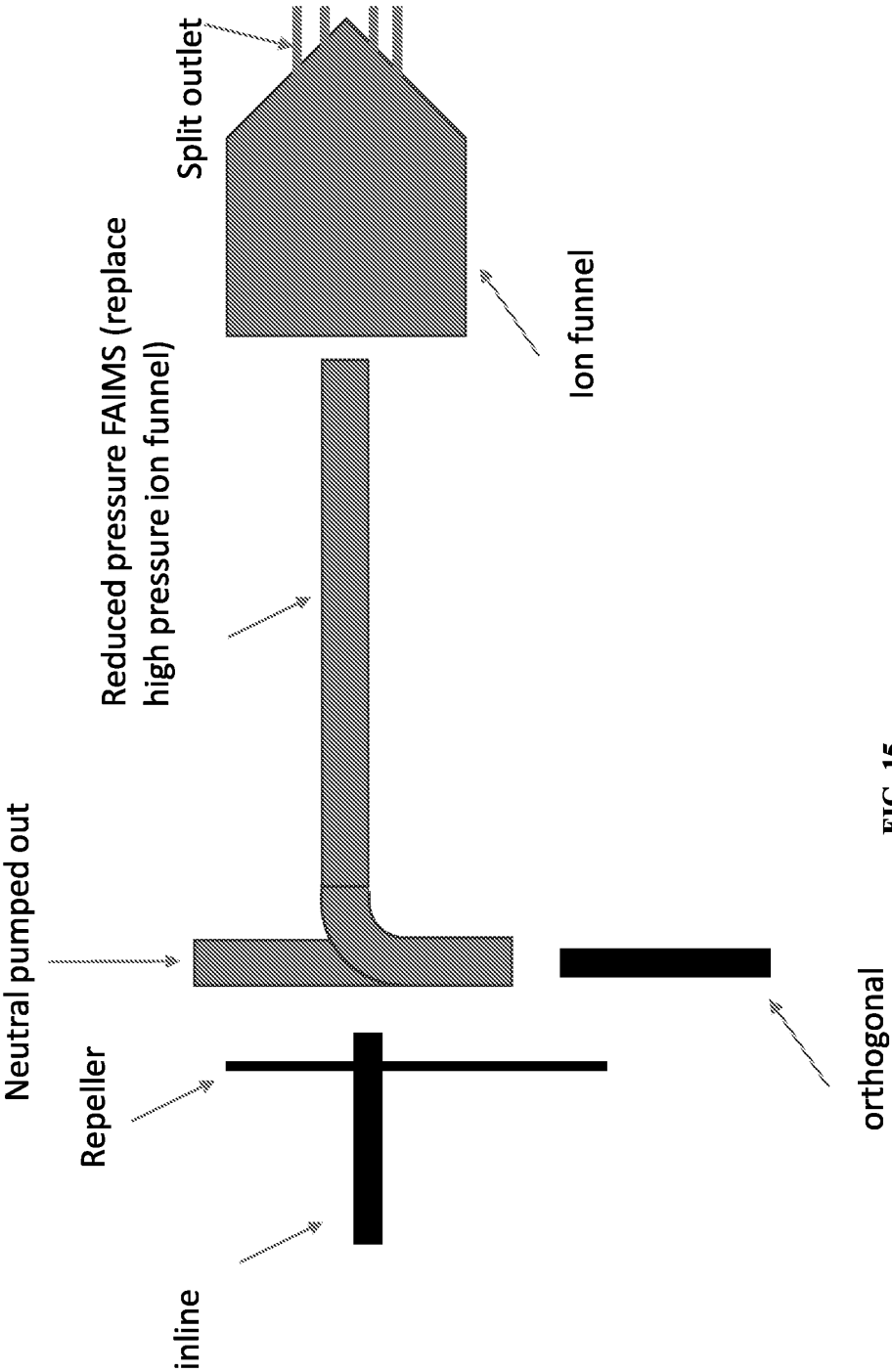


FIG. 15

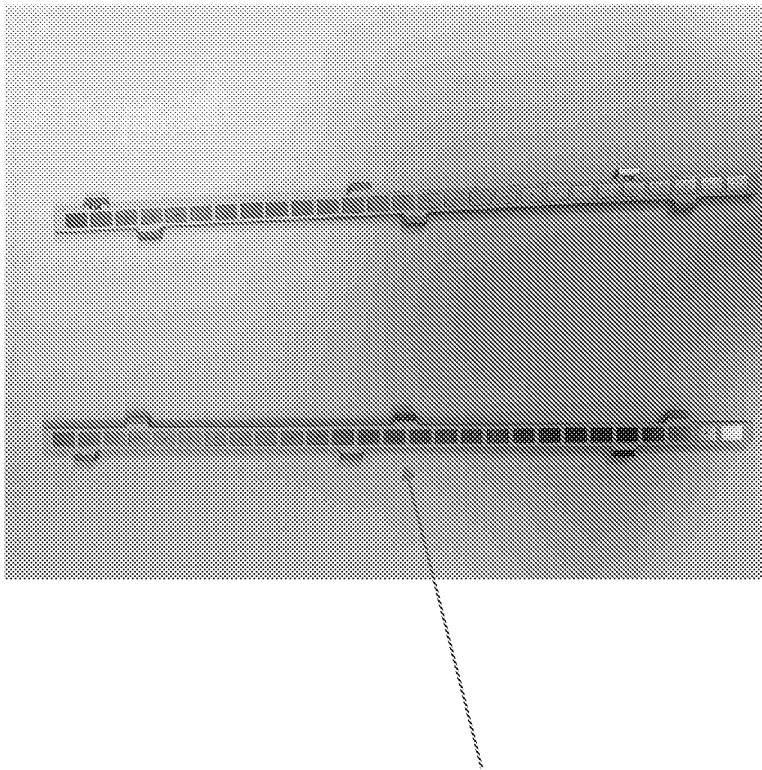


FIG. 16

DC rails, one on
each side.