

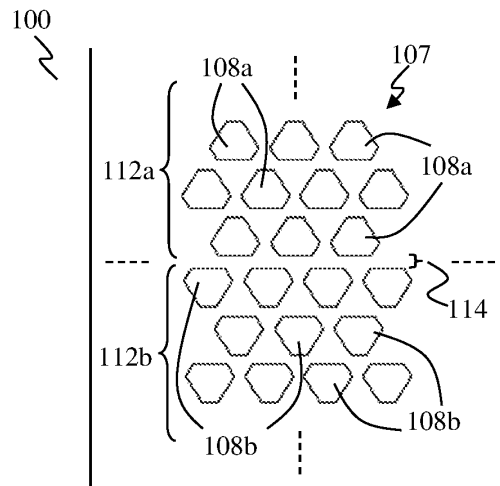


FIG. 1A

120

Form a photonic crystal structure having a first domain comprising a plurality of first holes defined therein, the first domain being associated with a first set of Chern numbers, and a second domain comprising a plurality of second holes defined therein, the second domain being associated with a second set of Chern numbers, wherein the plurality of first holes and the plurality of second holes are arranged to define an interface region between the first domain and the second domain, the interface region defining an optical cavity for lasing

FIG. 1B

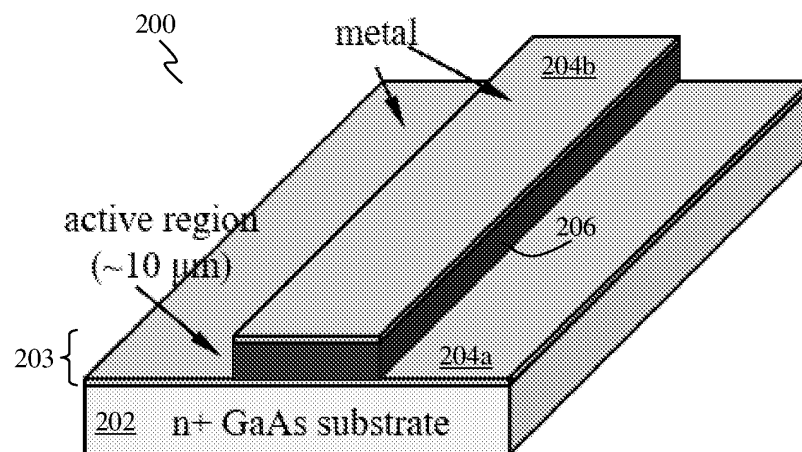


FIG. 2A

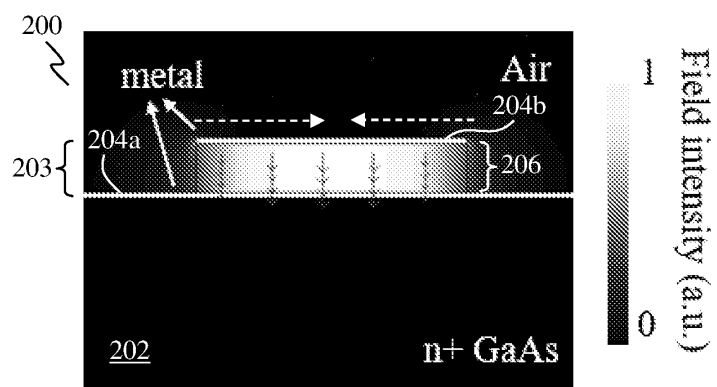


FIG. 2B

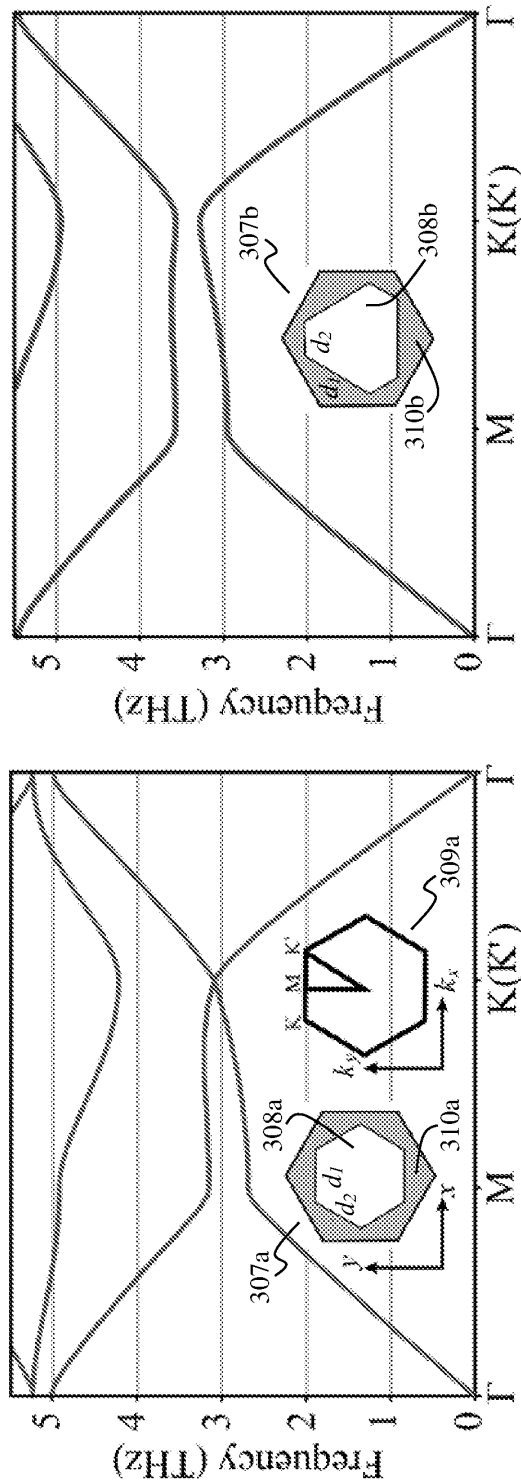


FIG. 3B

FIG. 3A

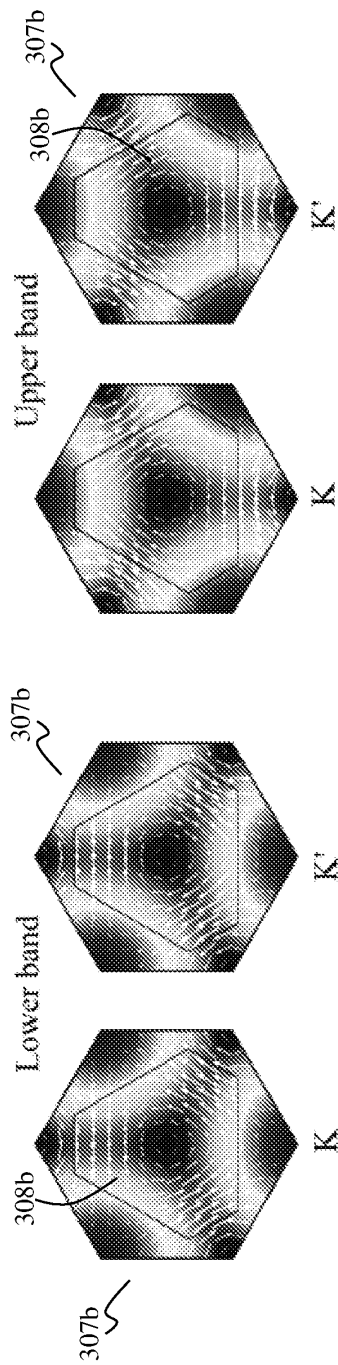


FIG. 3D

FIG. 3C

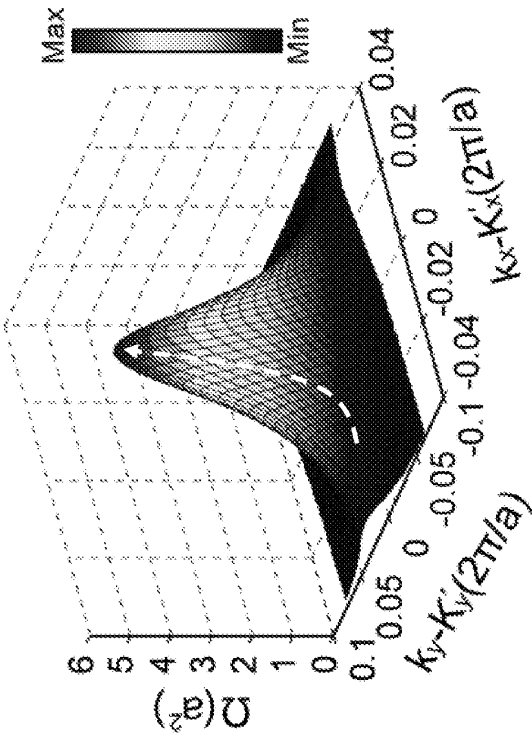


FIG. 3E

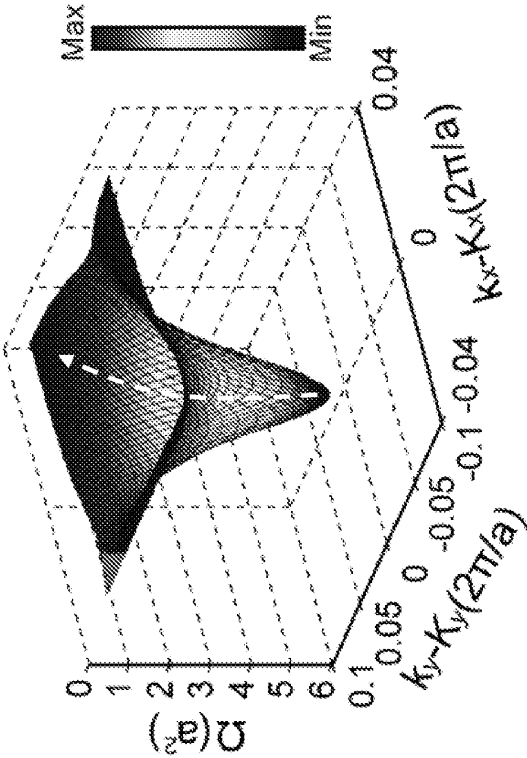


FIG. 3F

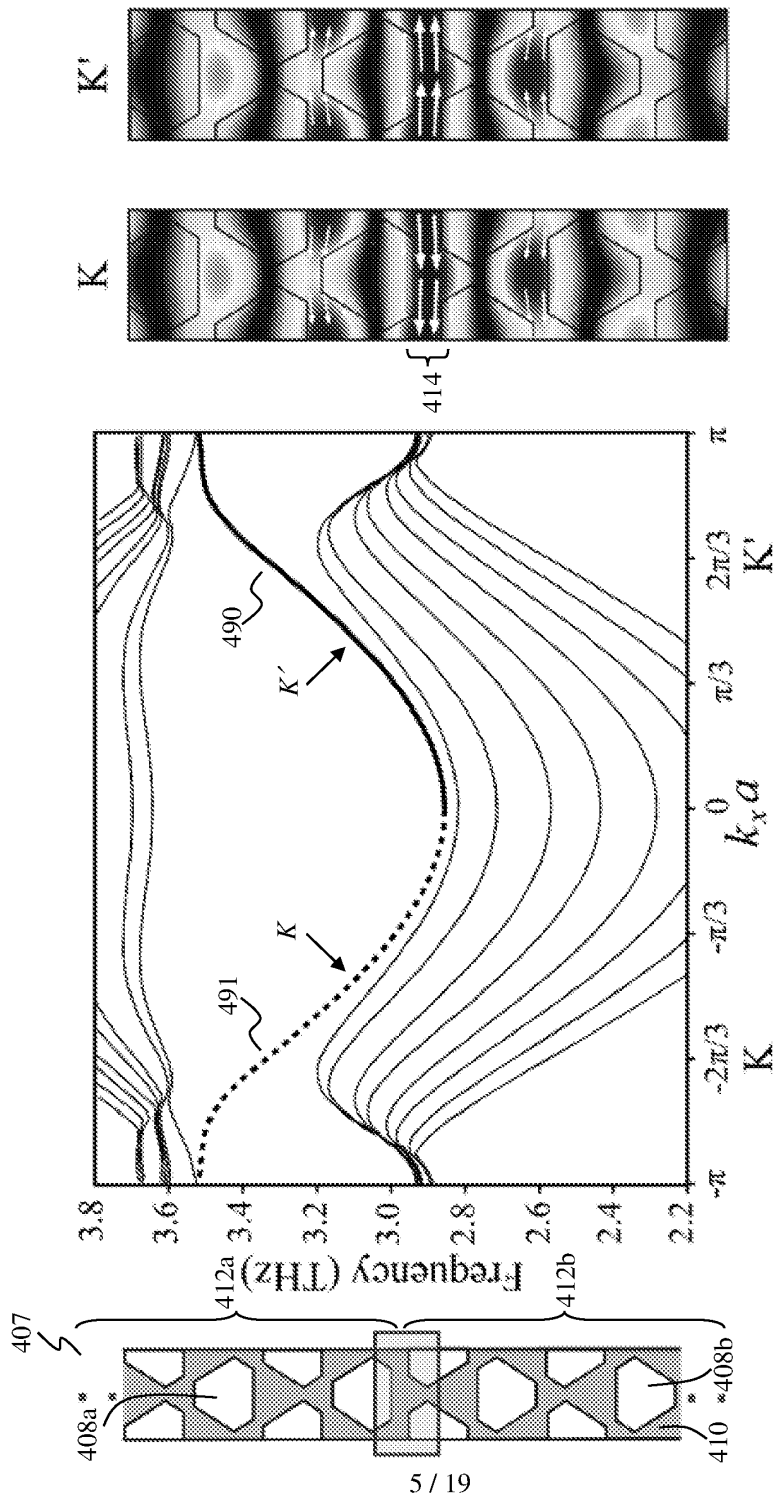


FIG. 4A

FIG. 4B

FIG. 4C

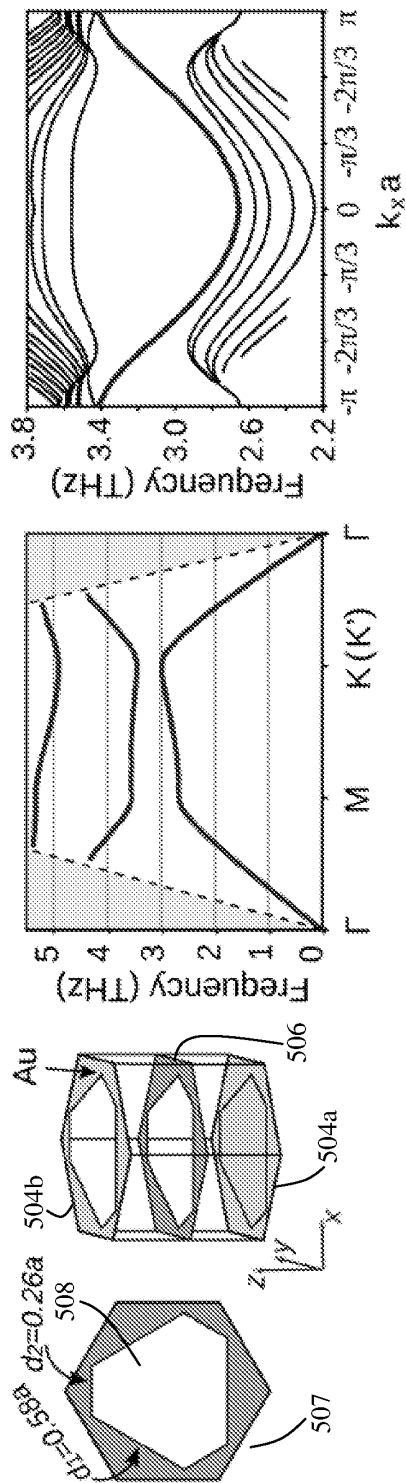


FIG. 5C

FIG. 5B

FIG. 5A

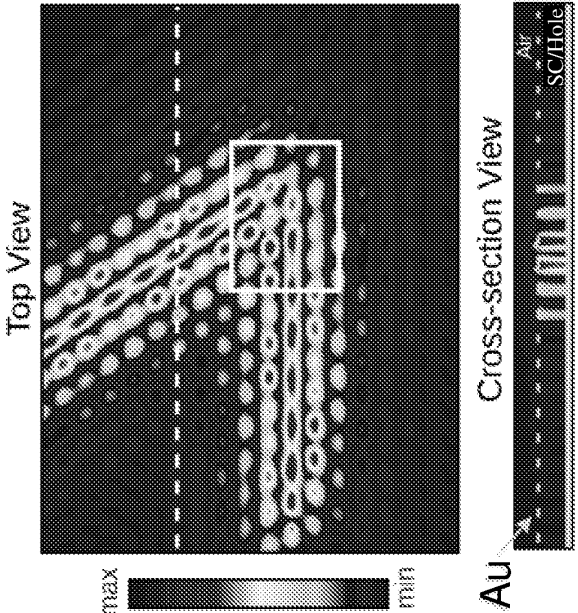


FIG. 5D

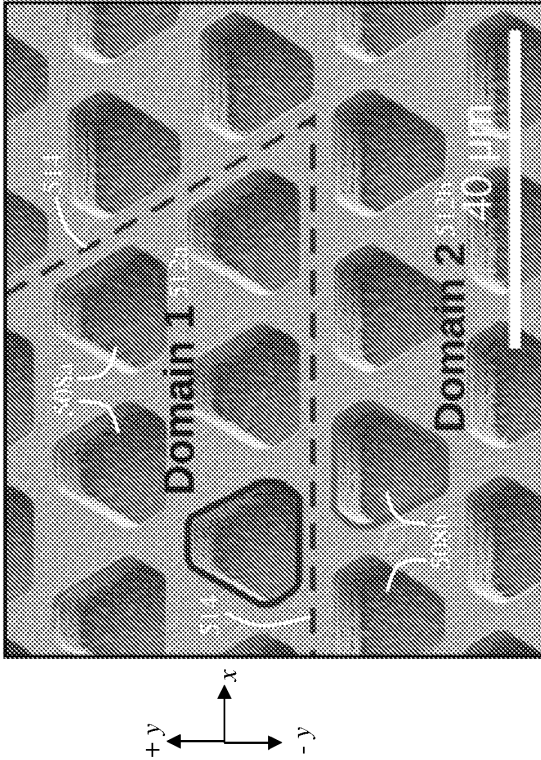


FIG. 5E

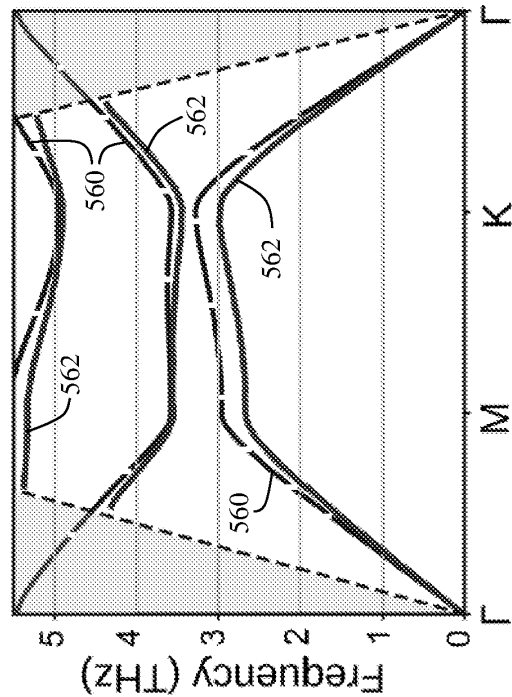


FIG. 5F

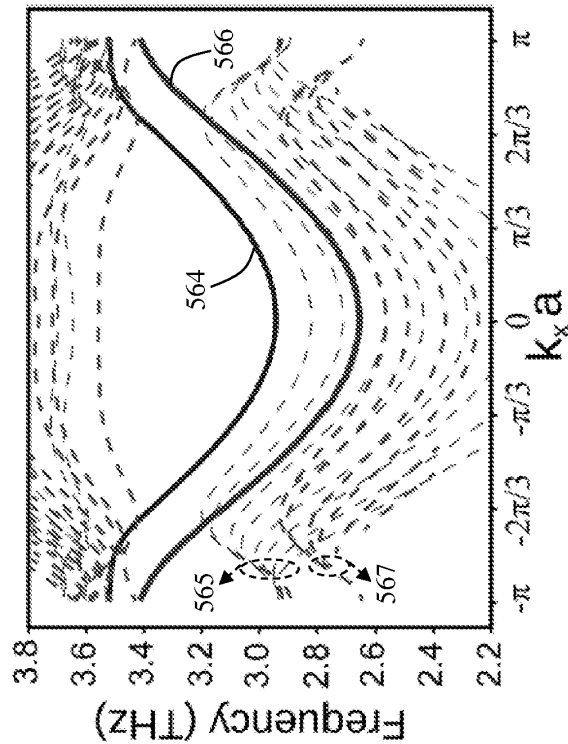


FIG. 5G

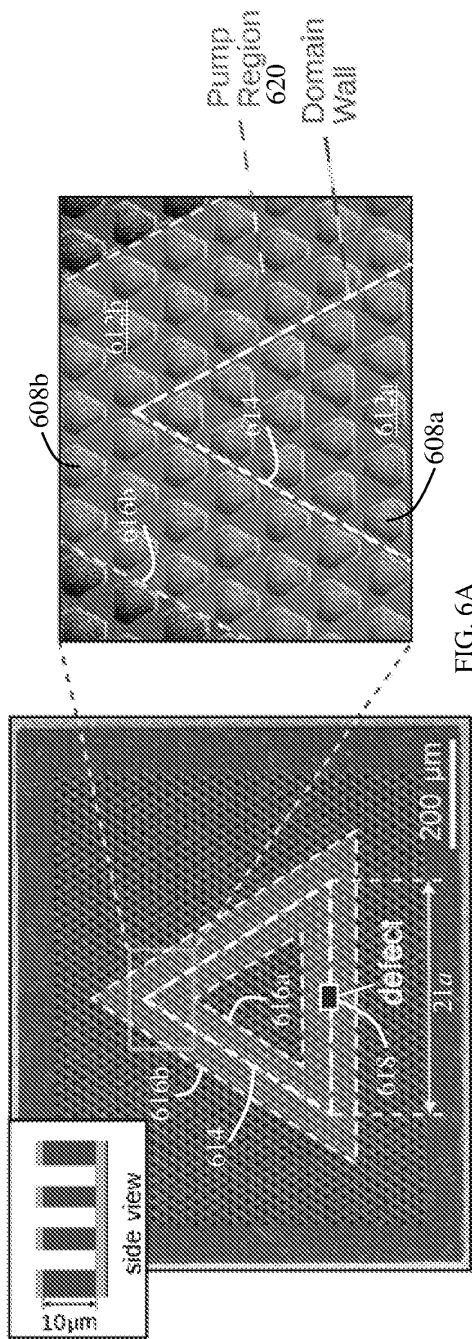


FIG. 6A

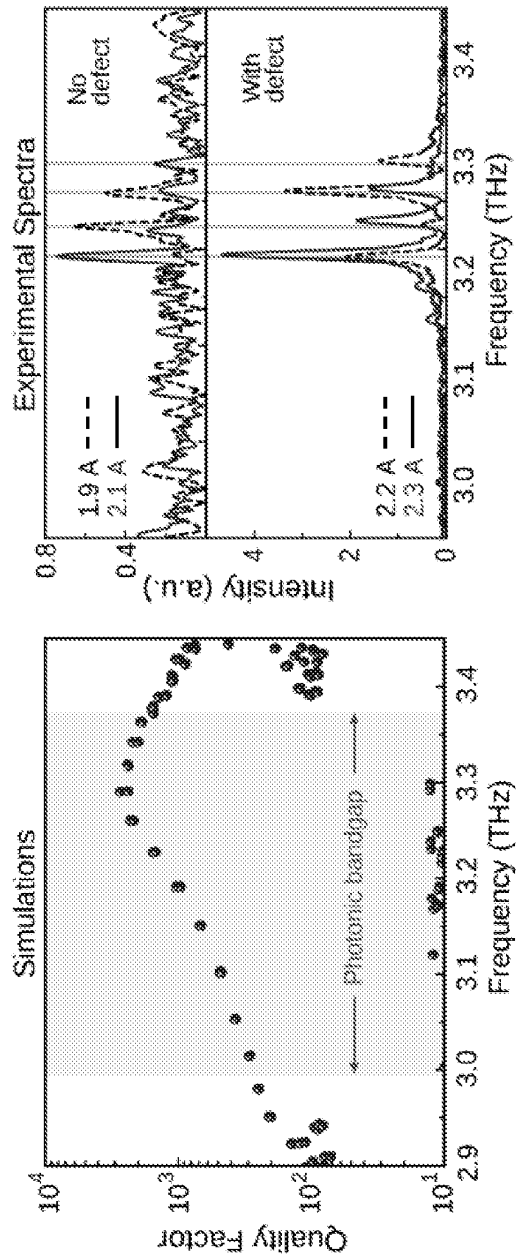


FIG. 6C

FIG. 6B

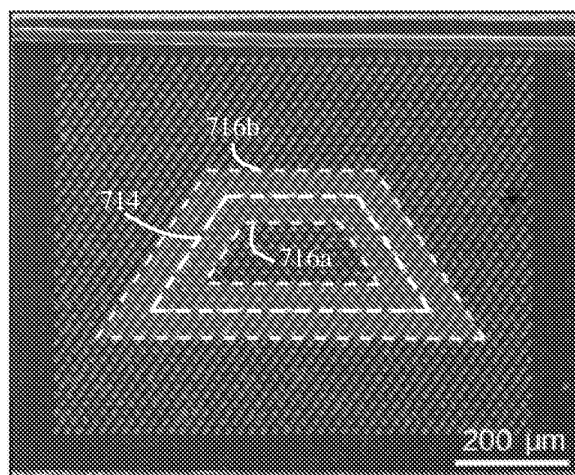


FIG. 7A

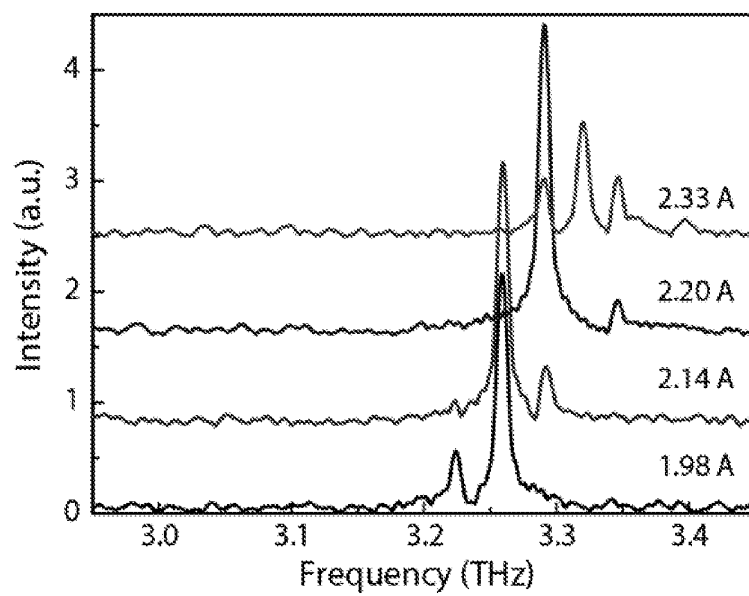


FIG. 7B

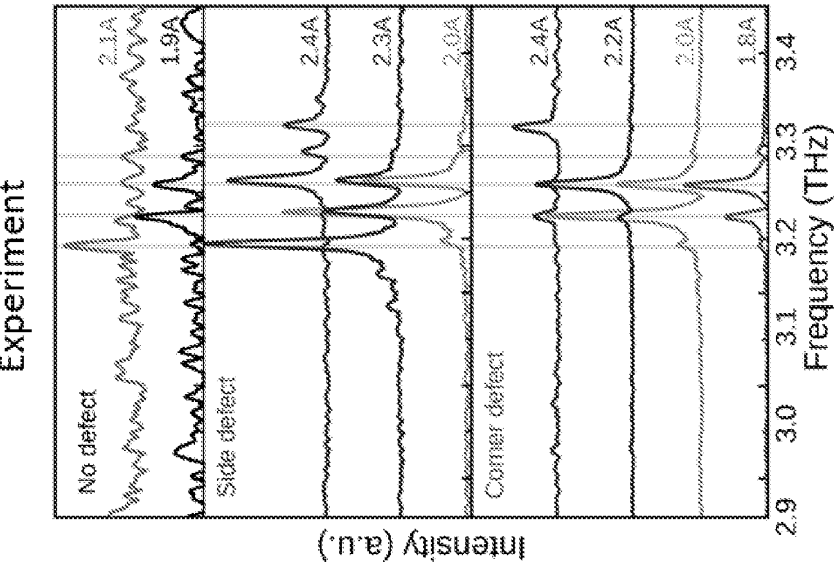


FIG. 8C

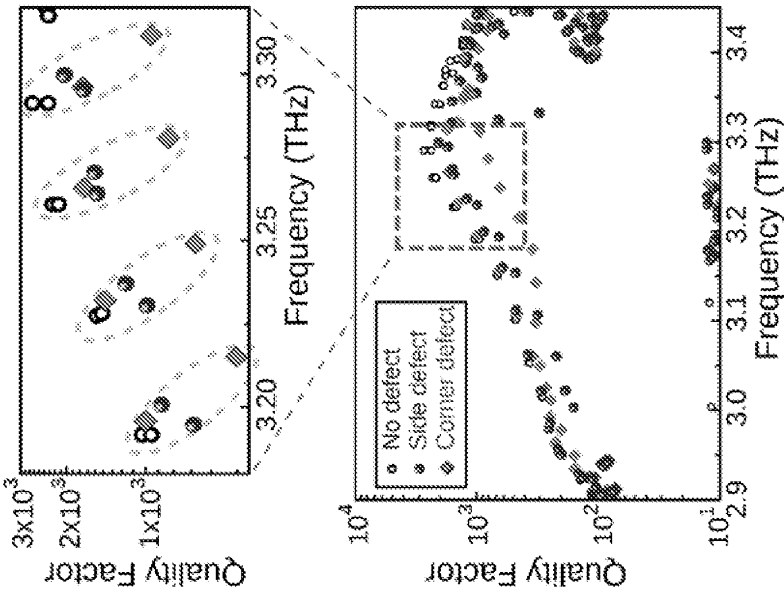


FIG. 8B

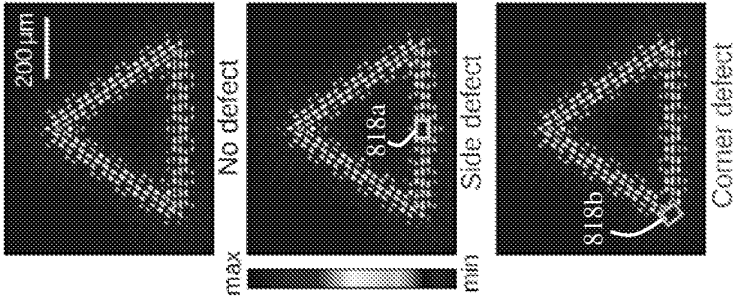


FIG. 8A

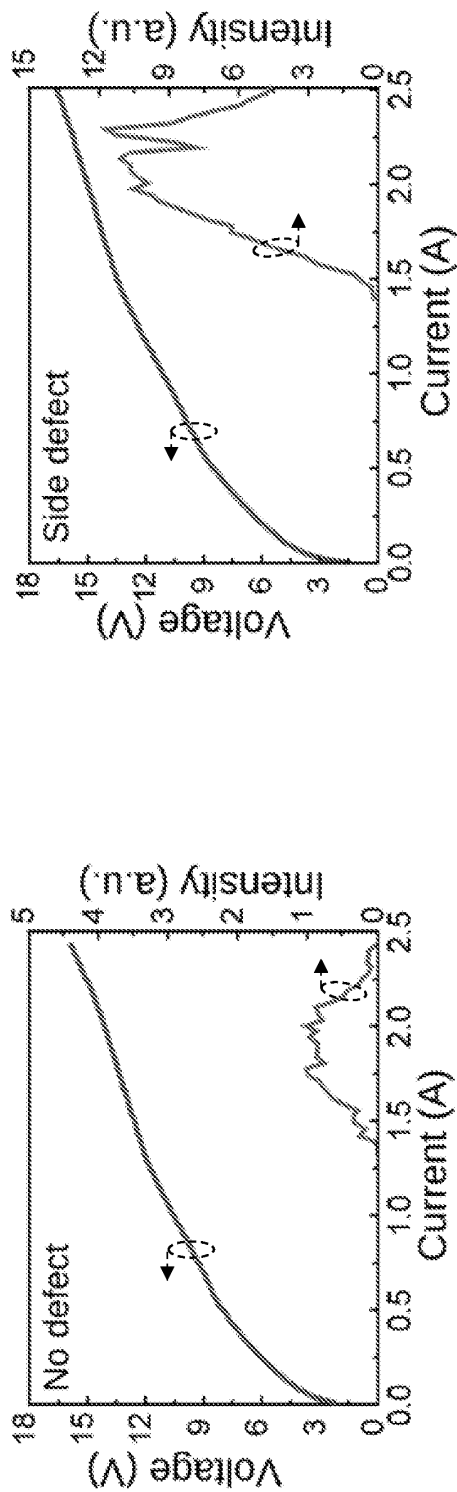


FIG. 8D

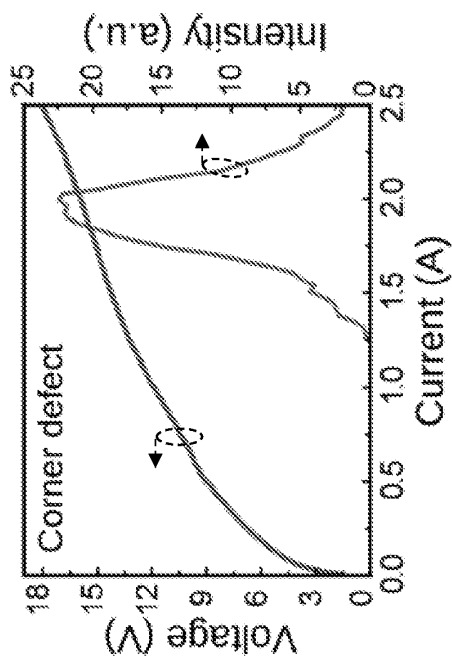


FIG. 8F

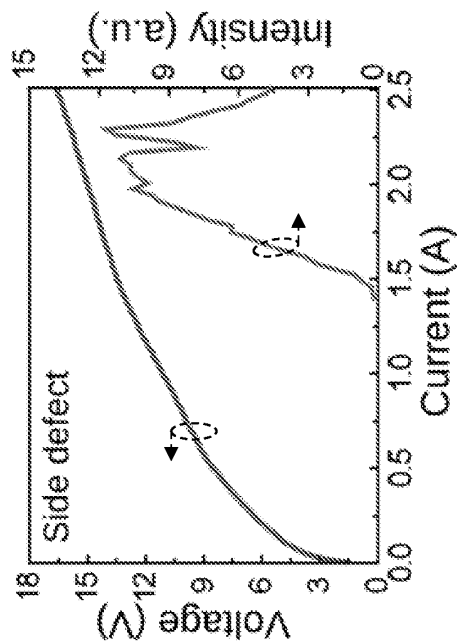


FIG. 8E

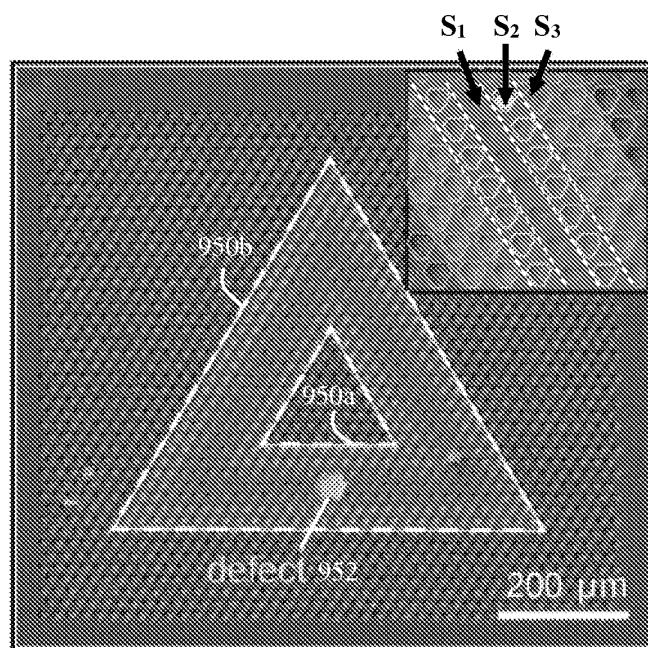


FIG. 9A

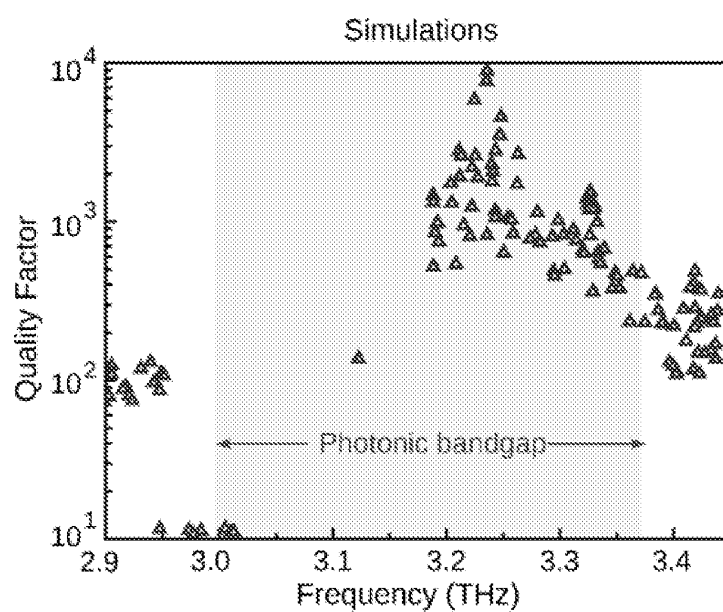


FIG. 9B

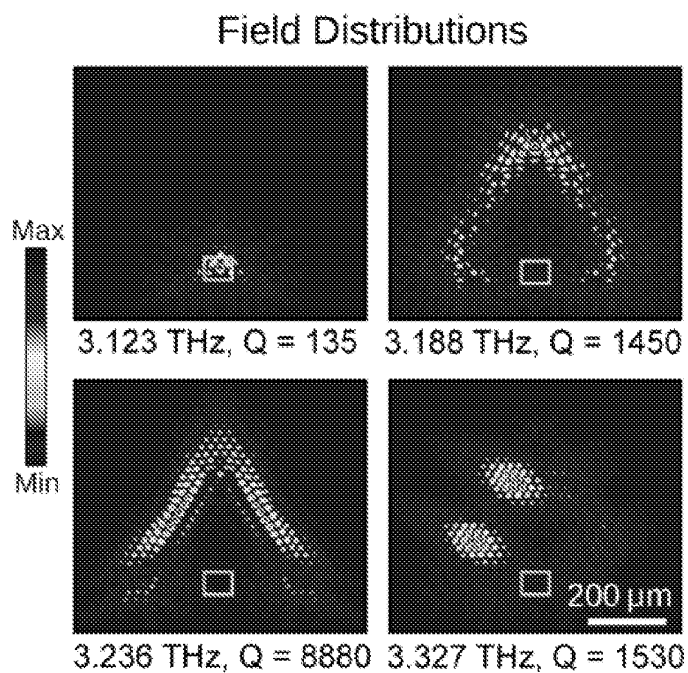


FIG. 9C

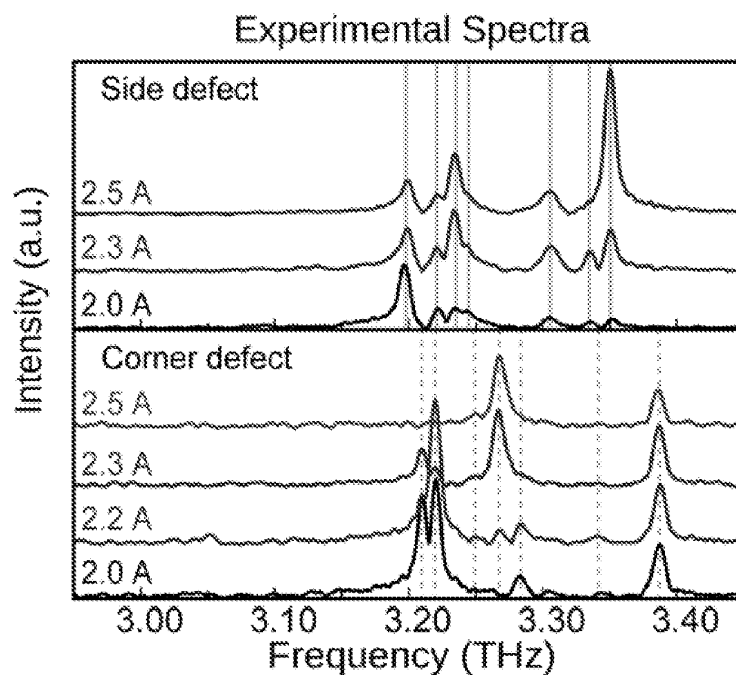


FIG. 9D

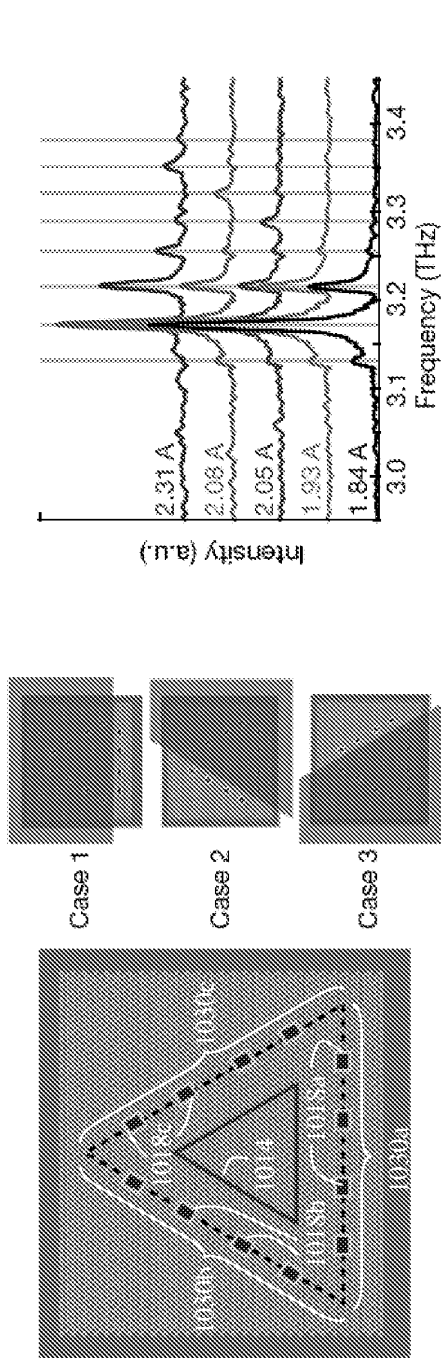


FIG. 10A

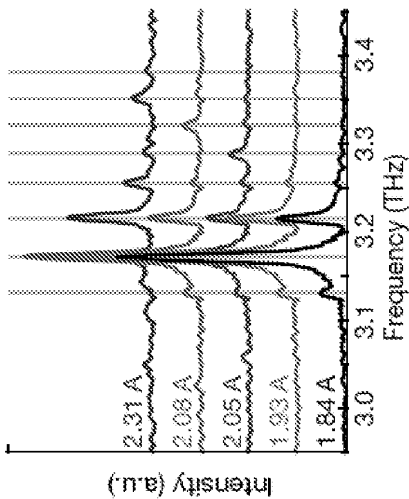


FIG. 10B

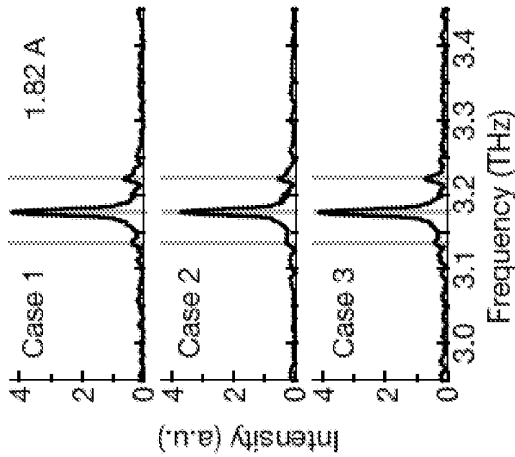


FIG. 10C

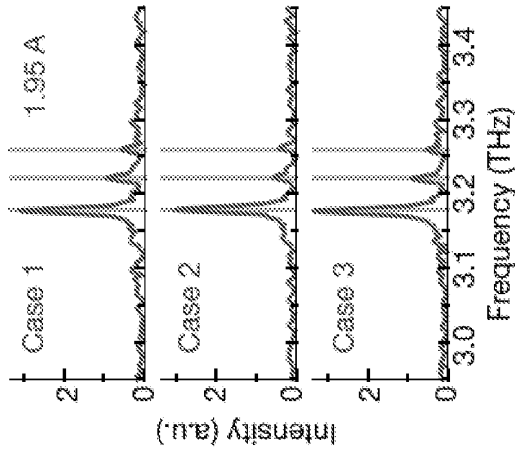


FIG. 10D

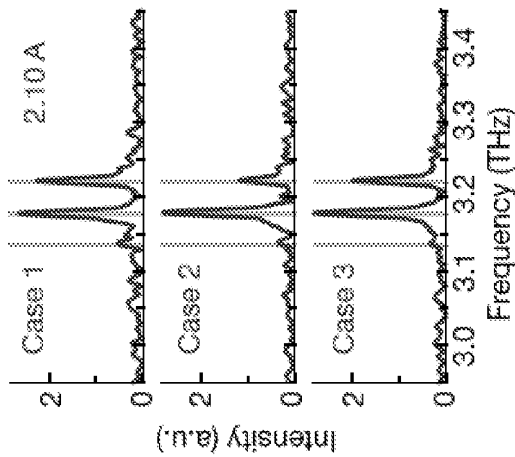


FIG. 10E

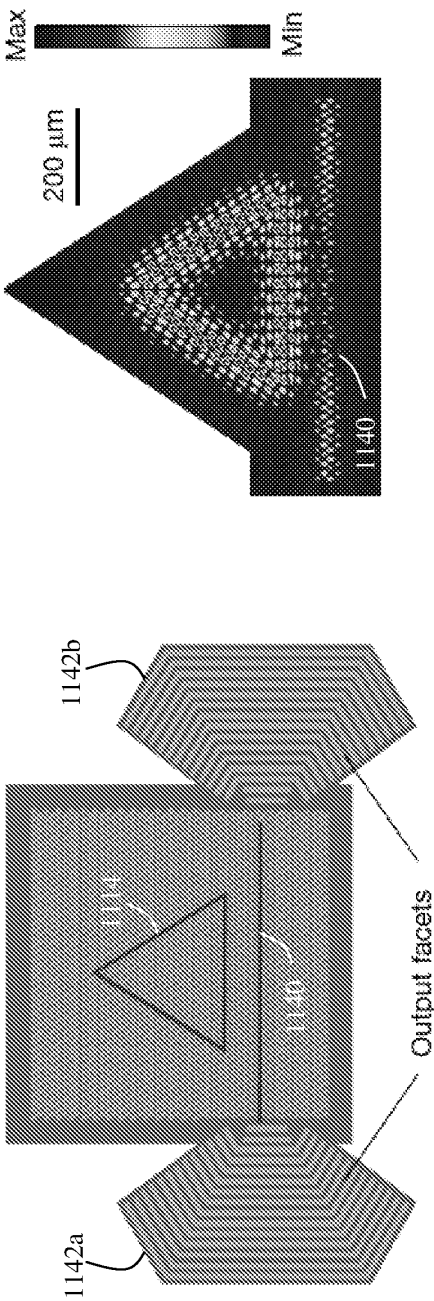


FIG. 11A

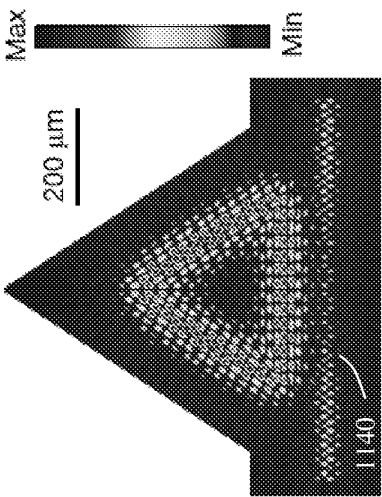


FIG. 11B

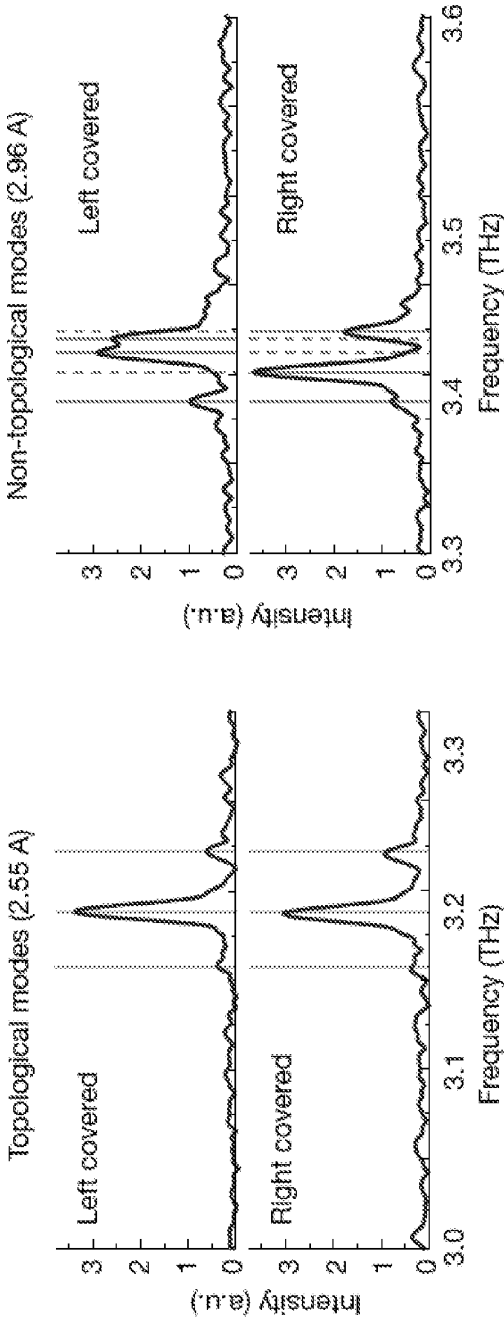


FIG. 11C

FIG. 11D

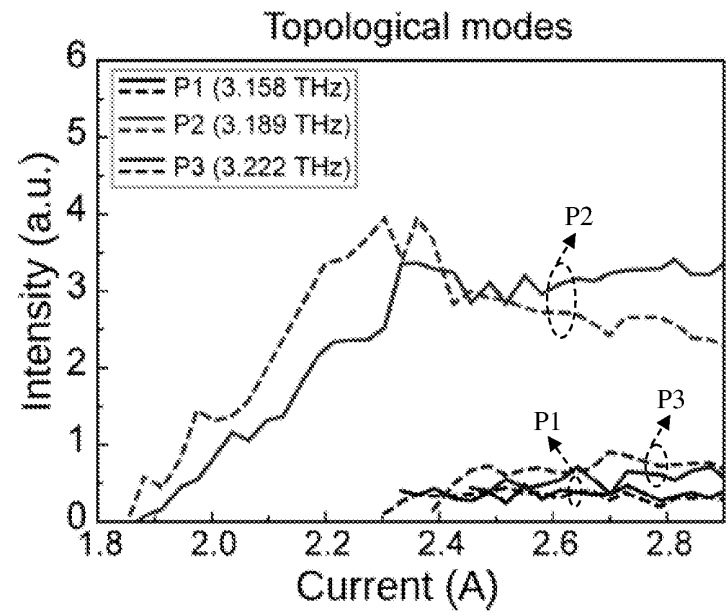


FIG. 11E

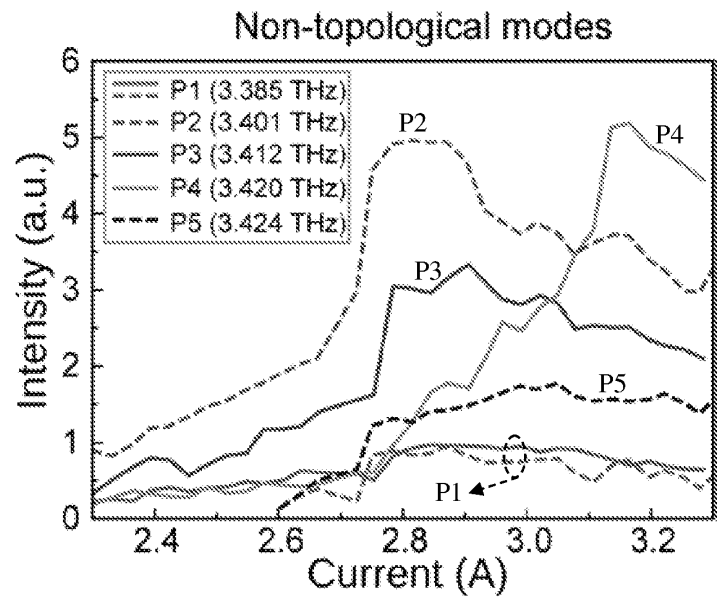


FIG. 11F

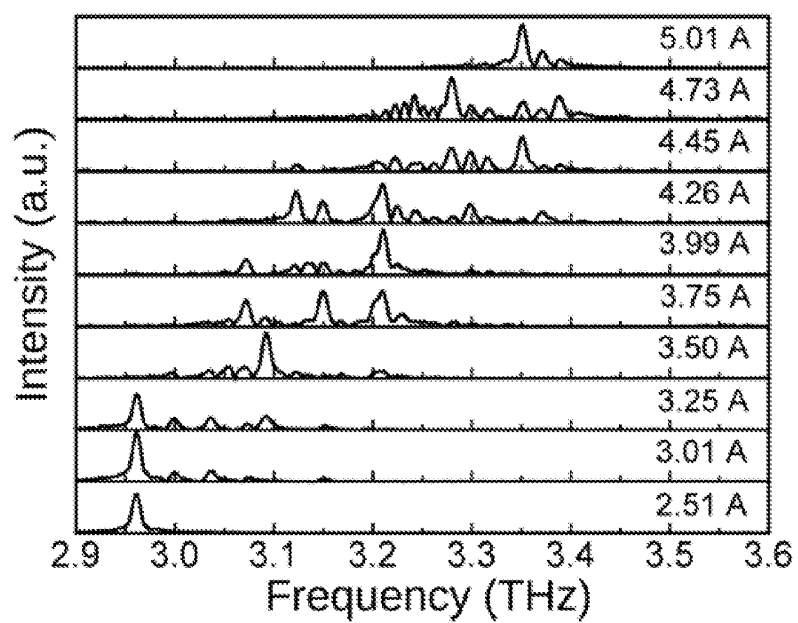


FIG. 12A

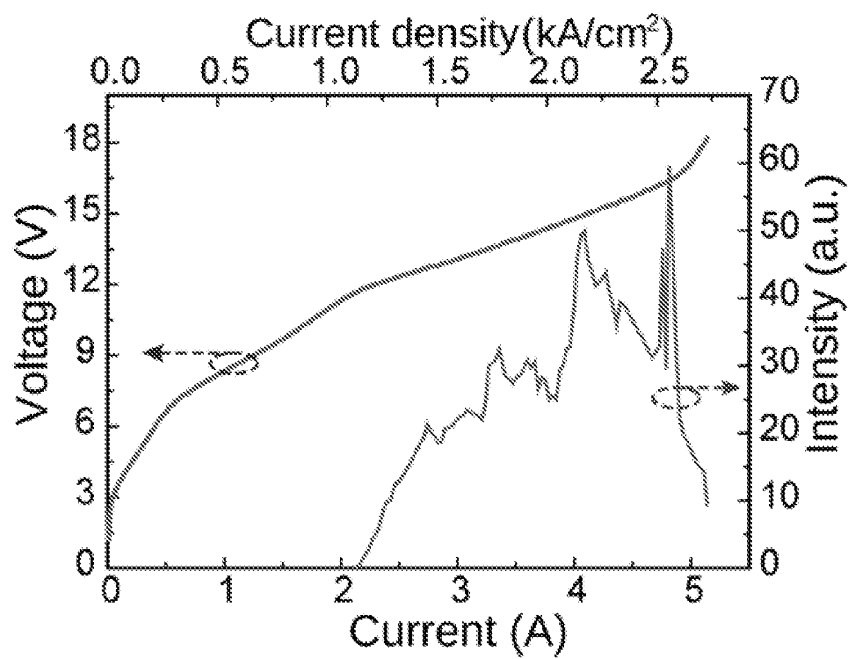


FIG. 12B

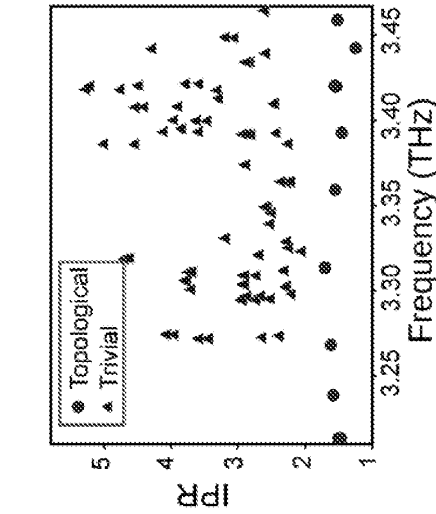


FIG. 13C

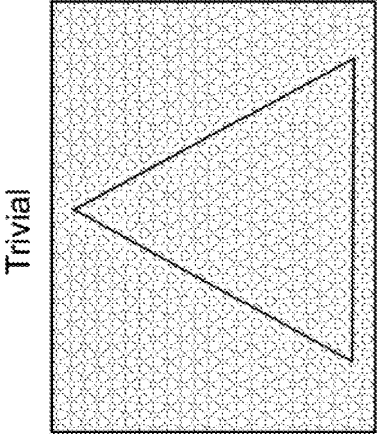


FIG. 13B

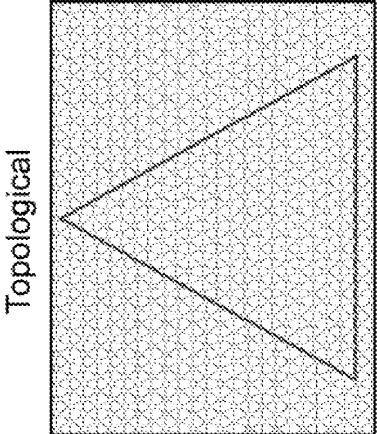


FIG. 13A

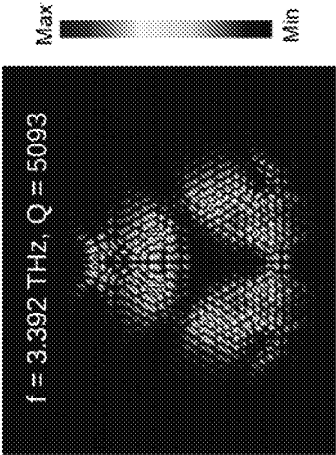


FIG. 13F



FIG. 13E

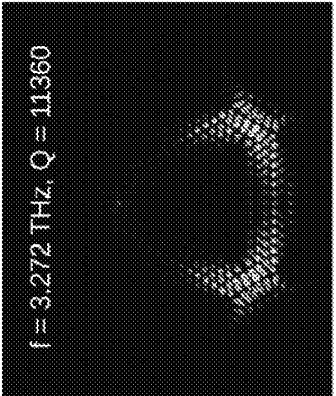


FIG. 13D

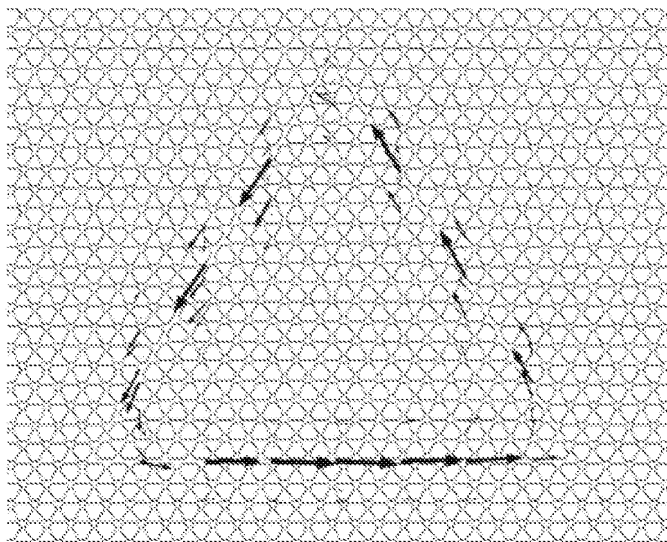


FIG. 14A

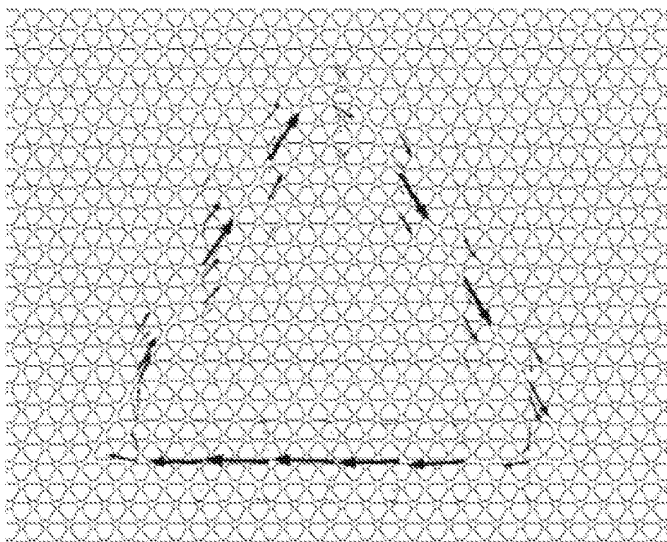


FIG. 14B