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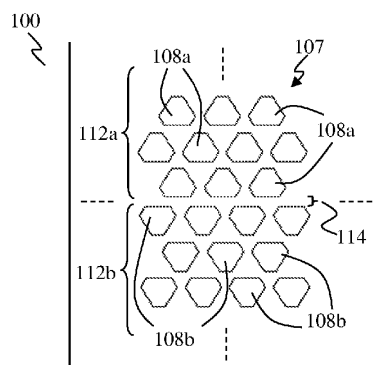


FIG. 1A

(57) Abstract: According to embodiments of the present invention, a laser source is provided. The laser source includes a photonic crystal structure including a first domain having a plurality of first holes defined therein, the first domain being associated with a first set of Chern numbers, and a second domain having 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. According to further embodiments of the present invention, a method for forming a laser source is also provided.

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