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(54) Title: ARRAYS OF INTEGRATED ANALYTICAL DEVICES WITH REDUCED-SCALE UNIT CELL

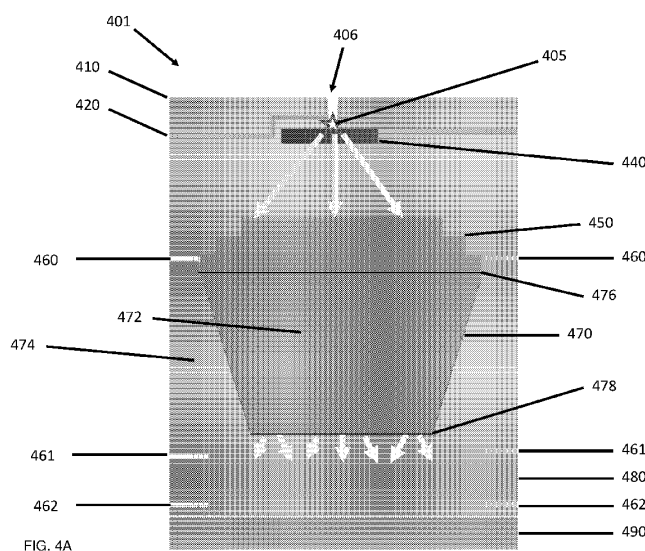


FIG. 4A

(57) Abstract: Arrays of integrated analytical devices are provided. The arrays are useful in the analysis of highly multiplexed optical reactions in large numbers at high densities, including biochemical reactions, such as nucleic acid sequencing reactions. In particular, the arrays provide increased efficiency of optical collection and decreased background signal as the lateral dimensions of the unit cell of devices within the array are decreased, for example as they are decreased to 2 μm , or even less.

[Continued on next page]

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