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(71) Applicant: **CRYSTAL LAGOONS TECHNOLOGIES, INC.** [US/US]; 1395 Brickell Avenue, Suite 800, Miami, Florida 33131 (US).

(72) Inventor: **FISCHMANN, Fernando**; 1395 Brickell Avenue, suite 800, Miami, Florida 33131 (US).

(74) Agent: **EVANS, Daniel R.** et al.; Merchant & Gould P.C., P.O. Box 2903, Minneapolis, Minnesota 55402-0903 (US).

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(54) Title: METHOD FOR CREATING GEOMETRIC FRESHWATER SANITARY AREAS WITHIN LARGE WATER BODIES

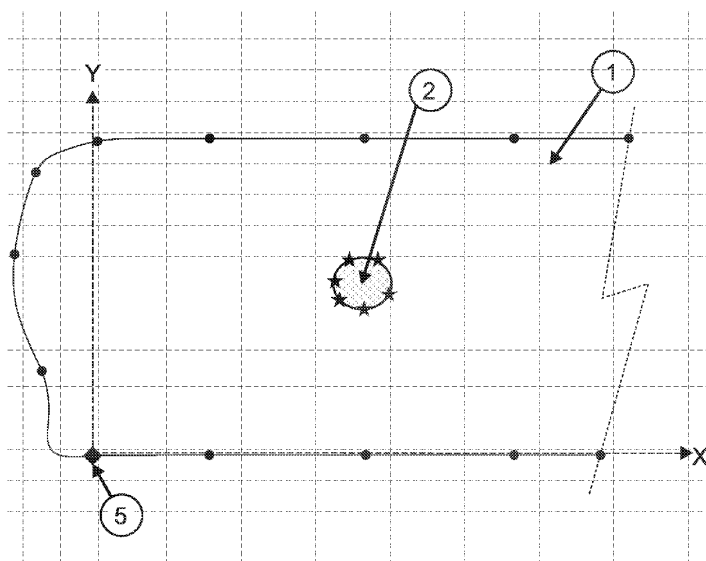


FIGURE 3

(57) Abstract: Geometric freshwater sanitary areas are created within large water bodies without the use of physical barriers to separate the area. A coordinated reference system (CRS) is used for mapping the defined geometric freshwater area in terms of its position; the definition of directional vectors (DVs) for the introduction of freshwater into the geometric freshwater area through inlet elements to achieve a minimum renewal rate of such geometric freshwater area; the application of a Comparative Water Renewal Index (CWRI); and the application of a Homogeneity Index (HI) based on the mixing conditions of the geometric freshwater area and its required homogenous conditions. Utilizing the processes together generate geometric freshwater sanitary areas that are suitable for bathing (direct contact purposes).

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