

ABSTRACT

The present disclosure relates to a fluid path member for generating nano-bubbles, and a fluid path integrator and a nano-bubble generator that use the same. The fluid path member may be configured such that a perimeter length of a cross-section of a fluid path is greater
5 than a cross-sectional area of the fluid path so as to maximize a friction area per volume of fluid. In addition, the fluid path member may be configured such that a single fluid path is continuously formed over several tens of meters or more without a joint. Further, the fluid path member may be configured with a high density. Accordingly, the fluid path member may have improved ability to generate the nano-bubbles. A fluid path member configured
10 to generate nano-bubbles according to some embodiments of the present disclosure includes a body formed as a bendable single tube, wherein the body is configured such that one or more dividing walls dividing a fluid path space inside a fluid path so as to expand a surface area and a friction area of a fluid are continuously integrally formed along a flow direction of the fluid, wherein the body is formed of a soft material of any one of silicone,
15 rubber, and soft resin material so as to be freely bent and wound, and wherein the body is manufactured by extrusion molding such that the one or more dividing walls are continuously formed in a longitudinal direction of the body.