

Liquid Material Vaporizer

ABSTRACT

This invention provides a vaporizer that prevents deterioration of a precursor while reducing a residue, reducing risk of clogging, and easily increasing vaporization flow. The vaporizer comprises an inlet port (P1) for introducing a precursor in a liquid phase or a gas-liquid mixture phase, a vaporizing section (3) for vaporizing the precursor arranged on the downstream side of the inlet port (P1), and an outlet port (P2) for delivering the precursor vaporized at the vaporizing section (3), wherein the vaporizing section (3) is of a flow channel type comprising a nozzle (31) for spraying the precursor and a heating channel (32) arranged on the downstream side of the nozzle (31) continuously thereto. A plurality of vaporizing sections (3) are arranged in parallel between the inlet port (P1) and the outlet port (P2), and arranged such that each vaporizing section (3) can distribute the precursor independently of each other.

FIG 1