ABSTRACT

DISPENSING APPARATUS AND METHOD OF USE THEREOF

This invention relates to a gas phase reagent dispensing apparatus comprising a cylindrically shaped vessel including a floor and an interior volume bounded by interior wall and floor surfaces. The vessel (4) is provided with a liquid reagent level sensor (2) for sensing liquid reagent level in the vessel interior volume, and with a temperature sensor (1 and 11) for sensing temperature of the liquid reagent in the vessel interior volume. The floor of the vessel has a cavity (3) therein extending downwardly from the surface of the floor, and the lower end of the liquid reagent level sensor (2) and temperature sensor (1 and 11) are positioned in the cavity. The dispensing apparatus may be used for dispensing of reagents such as precursors for deposition of materials in the manufacture of semiconductor materials and devices.

FIG 1.