SYSTEM AND METHOD FOR CONTROLLED DELIVERY OF LIQUIFIED GASES

Abstract

Provided is a novel system and method for delivery of a gas from a liquified state. The system includes: (a) a compressed liquified gas cylinder having a gas line connected thereto through which the gas is withdrawn; (b) a gas cylinder cabinet in which the gas cylinder is housed; and (c) means for increasing the heat transfer rate between ambient and the gas cylinder without increasing the temperature of the liquid in the gas cylinder above ambient temperature. The apparatus and method allow for the controlled delivery of liquified gases from gas cabinets at high flowrates. Particular applicability is found in the delivery of gases to semiconductor process tools.

Figure: 11A & 11B