



METHODS AND SYSTEMS FOR DISTRIBUTING LIQUID CHEMICALS

Abstract of the Invention.

Briefly, this invention uses one or more pressure vessels having installed therein on its inside a balloon of flexible and non-expandable wall to smoothly and continuously deliver a chemical to any end user without contamination and gas dissolution. Since the balloon installed inside the pressure vessel isolates a high pressure gas from the chemicals, gas dissolution in the chemical and the resulted gas bubble problems are effectively eliminated. Further, contaminants in the high pressure gas which fills the balloon will not be transferred into the chemical and the extremely toxic chemical will not be transferred into the gas to be exhausted as a serious environmental issue. Unlike the vacuum/pressure system, the contamination by the ambient air leaking into the system is avoided because the disclosed delivery system is always with the pressure higher or equal to the ambient pressure.

Figure 1