

**METHODS AND SYSTEMS FOR DELIVERING AN ULTRA-PURE GAS
TO A POINT OF USE**

Abstract of the Disclosure

Methods and systems of delivering ultra-high purity gas to a point of use are claimed and described. The methods include providing a source of ultra-high purity liquid (the source preferably at a pressure and temperature
5 sufficient to maintain the liquid in substantially the liquid phase); transporting (preferably via pressure in the source alone) the ultra-high purity liquid from the source to one or more means to effect a phase change of the ultra-high purity liquid to an ultra-high purity gas; effecting a phase change (preferably
10 at or near equilibrium vaporization conditions) of the ultra-high purity liquid to form an ultra-high purity gas in the one or more means to effect the phase change; and routing the ultra-high purity gas from the means to effect the phase change to a point of use (preferably with no intermediate, potentially
impurity-generating media between the means to effect the phase change and the point of use other than ultra-clean conduit).

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Figure 1