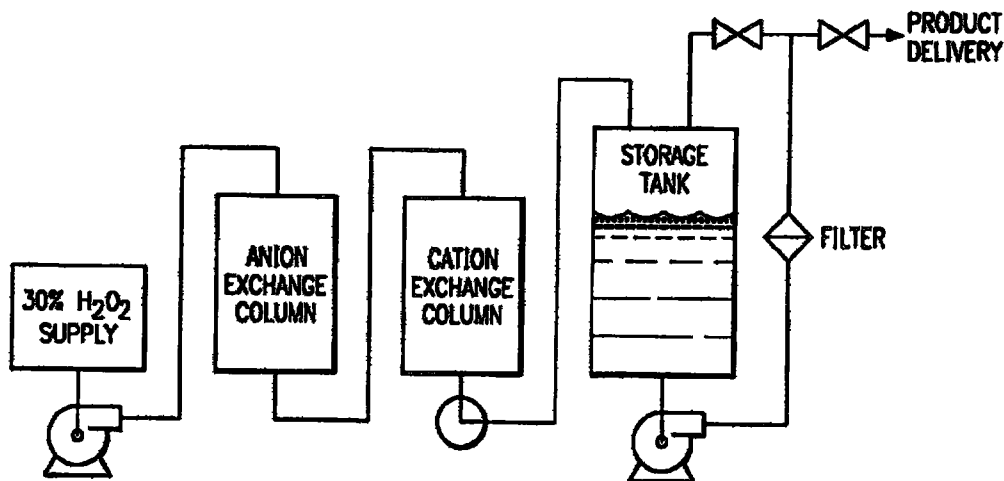


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(54) Title: ON-SITE GENERATION OF ULTRA-HIGH-PURITY BUFFERED HF FOR SEMICONDUCTOR PROCESSING**(57) Abstract**

The present application describes systems and methods for preparing ultra-high-purity hydrogen peroxide on-site at an integrated circuit fabrication front-end facility. The starting point is high-purity aqueous H_2O_2 (e.g. 30 % H_2O_2). The incoming aqueous H_2O_2 is further purified in on-site purification units before it is made available for combination with other reagents.