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(54) Title: GENERATION, DISTRIBUTION, AND USE OF MOLECULAR FLUORINE WITHIN A FABRICATION FACILITY

(57) Abstract: An integrated solution to molecular fluorine generation and use at a fabrication facility is disclosed. The integrated solution and portions of the systems and methods include novel aspects. Some embodiments of the method and system described herein can provide the ability to generate molecular fluorine at or near a process tool. Other embodiments of the system and method described herein can comprise a fluorine generator cabinet having multiple fluorine cells. The methods and systems are particularly useful for the fabrication of devices such as microelectronic devices, integrated microelectronic circuits, ceramic substrate based devices, flat panel displays or other devices. In one specific embodiment, F₂ may be generated on-site at a fabrication facility and used to clean a deposition chamber of a process tool.



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