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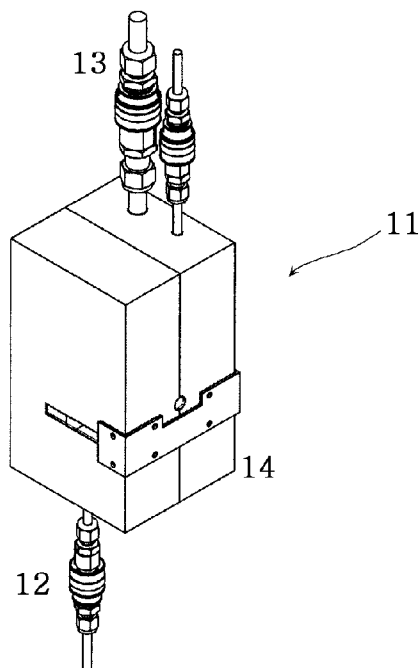
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(54) Title: PURGE BOX FOR FLUORINE SUPPLY

Fig. 1



(57) Abstract: The safety connecting box is an invention including a purge system built with the purge box, pipes, valves and manifold panel. Apart from the ventilation systems in ordinary gas cabinets, it is characterized by minimizing hazards through safe exhaust of toxic and reactive gases and through prevention of a second explosion and fire with complete cutoff of air (oxygen, in particular) in case of contamination and leakage arising in pipes, valves and manifold panel involved in purging inert gases (Ar and N₂) and the preferable purge box blocking external air from the joint area connecting the gas pipes and the gas container which is prone to leakage and contamination due to frequent attachments and detachments. In addition the supply valve of the hazardous chemical is closed, to avoid further releases. With this invention, physical and chemical damages resulting from attaching and detaching the cylinder mounted on the gas supply facility including existing or the separate gas cabinets can be prevented.



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