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6. In an apparatus for the production of fog, means forming a vaporizing chamber, a nozzle providing continuous communication between the interior of said chamber and the atmosphere, a vessel having a vertical extent at least partially coextensive with said chamber, a conduit having a restricted orifice connected between the lower parts of said chamber and vessel, means for supplying liquid to said vessel, a float valve for maintaining the level therein at approximately the maximum level desired in said chamber, means forming an enclosed space of variable volume connected to said chamber for successively decreasing and increasing the volume of liquid in said chamber to alternately suck air in and eject a mixture of air and fog producing vapor through said nozzle, means for heating a portion of the chamber walls which is always contacted by liquid, to thereby produce the fog producing vapor, and means for heating said nozzle to a temperature above the dew point and below the ignition point of said mixture.

7. In an apparatus for the production of fog, means forming a vaporizing chamber, a nozzle providing continuous communication between the interior of said chamber and the atmosphere, a vessel having a vertical extent at least partially coextensive with said chamber, a conduit having a restricted orifice connected between the lower parts of said chamber and vessel, means for supplying liquid to said vessel, a float valve for maintaining the level therein at approximately the

maximum level desired in said chamber, a cylinder connected to said chamber, a piston reciprocable within said cylinder to vary the volume thereof to successively decrease and increase the volume of liquid in said chamber, to thereby suck air in and eject a mixture of air and fog producing vapor through said nozzle, and means for heating said nozzle to a temperature above the dew point and below the ignition point of said mixture.

8. In an apparatus for the production of fog, means forming a vaporizing chamber, a nozzle providing continuous communication between the interior of said chamber and the atmosphere, a vessel having a vertical extent at least partially coextensive with said chamber, a conduit having a restricted orifice connected between the lower parts of said chamber and vessel, means for supplying liquid to said vessel, a float valve for maintaining the level therein at approximately the maximum level desired in said chamber, a cylinder connected to said chamber, a piston reciprocable within said cylinder, electromagnetic means for reciprocating said piston to successively decrease and increase the volume of liquid in said chamber to thereby alternately suck air in and eject a mixture of air and fog producing vapor through said nozzle, and means for heating said nozzle to a temperature above the dew point and below the ignition point of said mixture.

PER ANTON ASTRADSSON.