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⑤④ **Controlled hydrogen gas flame.**

⑤⑦ A sustained controllable gas flame. The hydrogen generator utilized is that for separating gasses from water having impurities and other gasses entrapped therein. The gasses separated from the water comprises hydrogen, oxygen, and the non-combustible gasses, such as nitrogen. The nitrogen, oxygen and hydrogen are mixed as they are released in the process by the generator and collected as the mixture of gasses in the collection chamber of the generator. The method and system comprises a nozzle of a given configuration connected through a line to the uppermost region of the gas collection chamber of the hydrogen generator. The nitrogen reduces the velocity and temperature of the burning flame from that of the hydrogen/oxygen mixture. To further control the temperature and velocity of the burning gas mixture there is added to the collection chamber other non-burnable gasses. The configuration of the nozzle and its port opening is dependant on the mixture of gasses utilized and restricted thereby. An increase in the size of the flame requires additional port openings to prevent blowout.

*Cross reference:*

The hydrogen/oxygen generator utilized in the present invention is that disclosed and claimed in my co-pending U.S. patent application, Serial Number: 302,807, filed: September 16, 1981, for: HYDROGEN GENERATOR SYSTEM.

In that process for separating hydrogen and oxygen atoms from water having impurities, the water is passed between two plates of similar non-oxidizing metal. No electrolyte is added to the water. The one plate has placed thereon a positive potential and the other a negative potential from a very low amperage direct-current power source. The sub-atomic action of the direct current voltage on the non-electrolytic water causes the hydrogen and oxygen atoms to be separated --- and similarly other gasses entrapped in the water such as nitrogen. The contaminants in the water that are not released are forced to disassociate themselves and may be collected or utilized and disposed of in a known manner.

The direct current acts as a static force on the water molecules; whereas the non-regulated rippling direct current acts as a dynamic force. Pulsating the direct current further enhances the release of the hydrogen and oxygen atoms from the water molecules.

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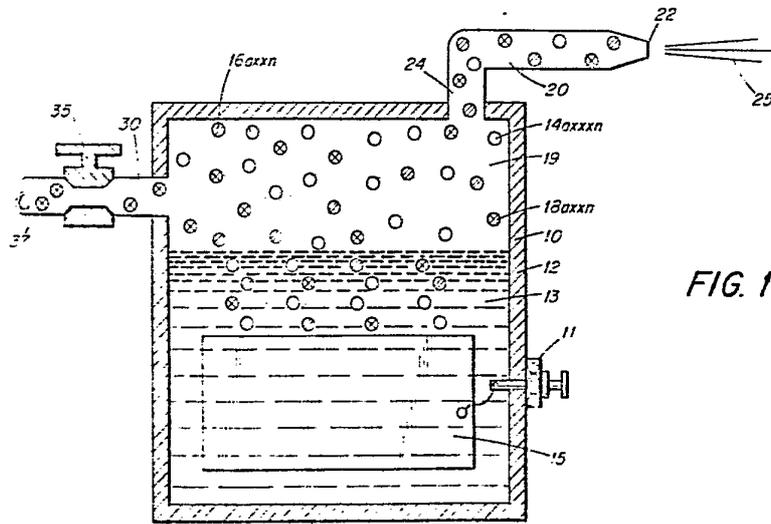


FIG. 1



DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. *)
E	EP-A-0 086 439 (MEYER) * Figures 1,2; claim 1 *	1	F 02 B 43/10 C 12 Q 1/60 F 23 L 7/00
A	--- US-A-3 977 365 (VIERLING) * Abstract; figure 1; column 2, lines 1-65 *	1	
A	--- GB-A-1 549 738 (BELL) * Page 1, lines 1-91 *	1	
A	--- US-A-3 982 878 (NISSAN) * Abstract * -----	1	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int. Cl. *)
			F 02 B F 23 L 7/00
Place of search THE HAGUE	Date of completion of the search 27-04-1984	Examiner WASSENAAR G.	
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document	T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document		