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- 32. The apparatus of claim 28, wherein both of said pair of electrodes form a flat plate.
- 33. The apparatus of claim 32, further comprising at least one additional pair of electrodes coupled to said first power supply, wherein each electrode of said additional pair of electrodes forms a flat plate. 5
- 34. The apparatus of claim 32, wherein both of said pair of electrodes is formed by a same material.
- 35. The apparatus of claim 34, wherein said material forming said electrodes is stainless steel. 10
- 36. The apparatus of claim 19, wherein said apparatus is adapted to produce hydrogen and oxygen from a fluid solution in the absence of a chemical catalyst.
- 37. The apparatus in claim 18, wherein said apparatus is adapted to produce hydrogen and oxygen from a fluid solution in response to said first pulsed signal and said 15

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- container includes an output port for outputting said hydrogen and oxygen, and further comprising:
 - a device including an input port connected to said output port for receiving said hydrogen and oxygen, said device selected from the group consisting of:
 - a. an internal combustion engine;
 - b. a reciprocating piston engine;
 - c. a. gas turbine engine;
 - d. a stove;
 - e. a heater;
 - f. a furnace;
 - g. a distillation unit;
 - h. a water purification unit; and
 - i. a hydrogen/oxygen flame jet.

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