

# Water Fuel Injection System

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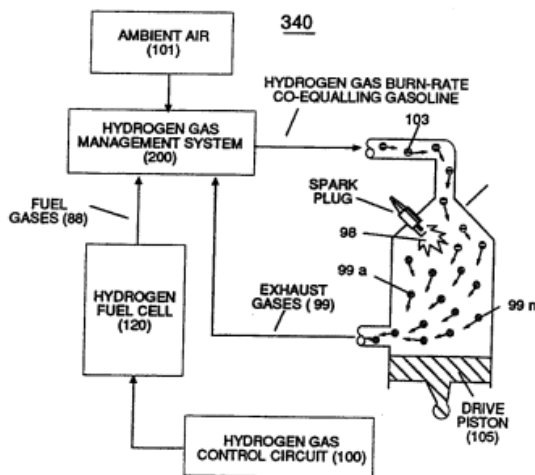


FIGURE 3-38: RETROFIT ENERGY SYSTEM

WFC **Hydrogen Gas Management System** is ideally suited as a retrofit energy system to both reciprocating (rotary piston engine) and turbine jet engines associated with the aviation industry ... but in different ways:

Reciprocating WFC fuel-kits can be similar to **car design** (340) of Figure (3-38) of WFC (422 DA);

Whereas, **Water Fuel Injector Kit** (10) of Figure (4-1) can be alternately be used as a self-contained Fuel-unit having no pressurized vessel which converts water directly into thermal explosive energy (gtnt) on demand, as illustrated (10) of Figure (4-1) as to Figure (40) of Figure (4-2).

Figure (4-1)

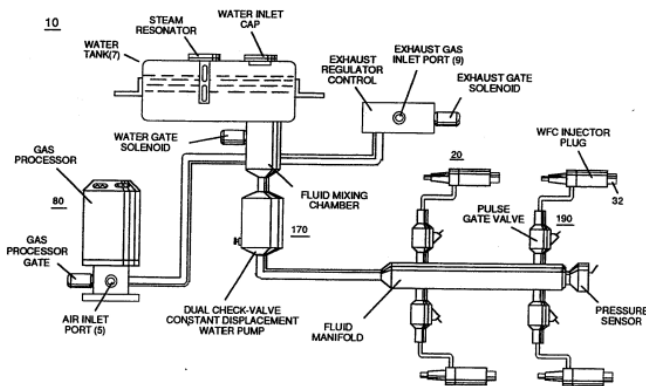


FIGURE 4-1: WATER FUEL INJECTOR SYSTEM

Figure (4-2)

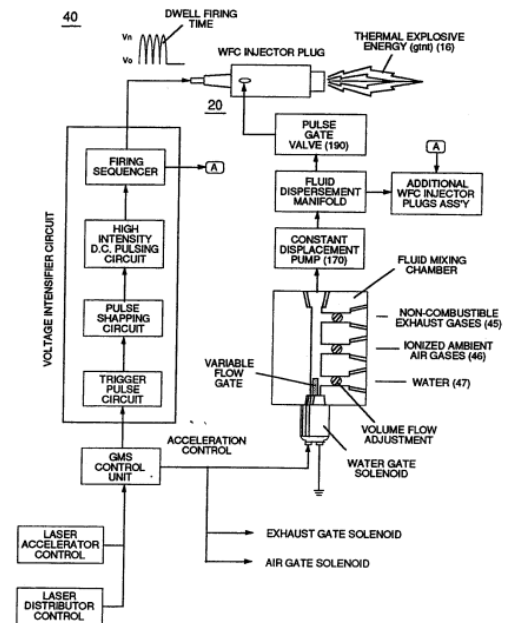


FIGURE 4-2: WATER FUEL MANAGEMENT (WFM) SYSTEM

Operationally, **Water Fuel** injector assembly (10) of Figure (4-1) as to (40) of Figure (4-2) performs several function simultaneously to produce thermal explosive **energy-yield** (gtnt) (16) on demand:

First **water mist** (47) of Figure (4-4) is injected into **fuel-mixing chamber** (35) of Figure (4-5) by way of **water spray ports** (41a xxx 41n) of Figure (4-4);

Figure (4-5)

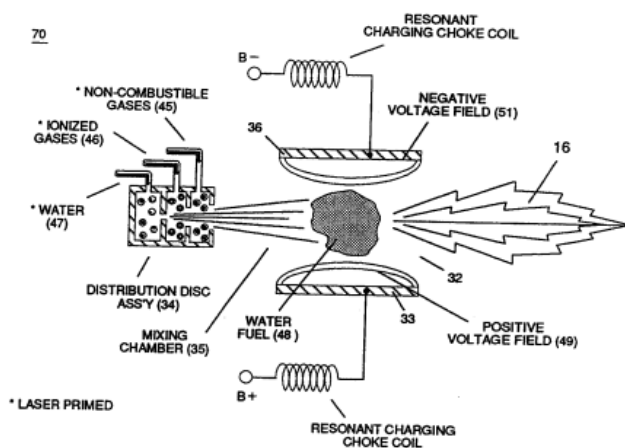


FIGURE 4-5: VOLTAGE TRIGGERING

Figure (4-4)

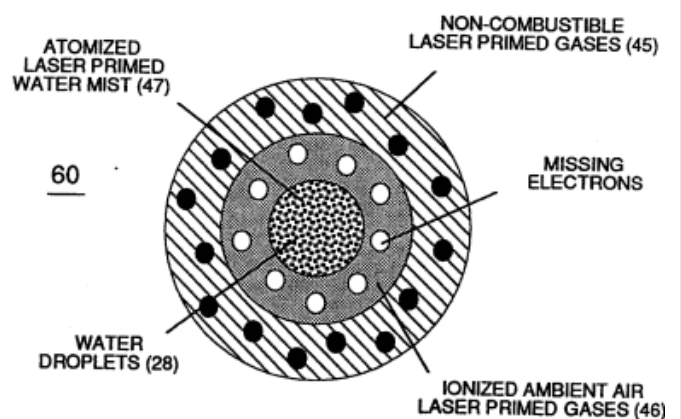
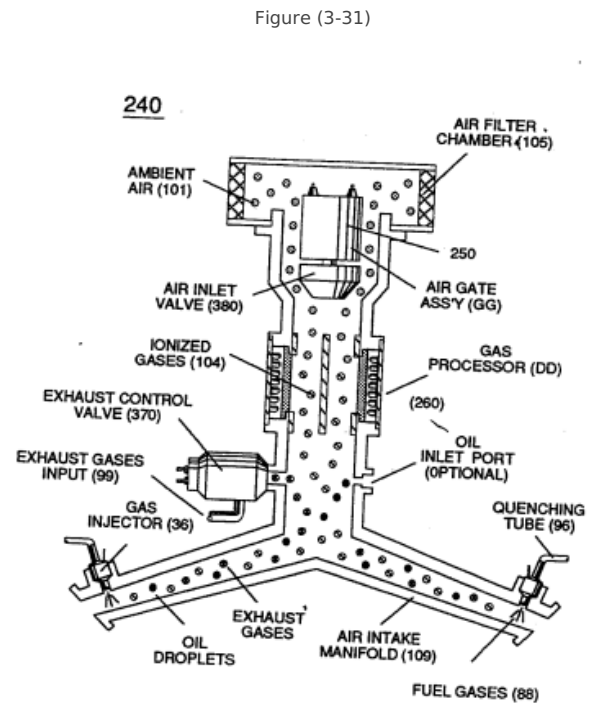
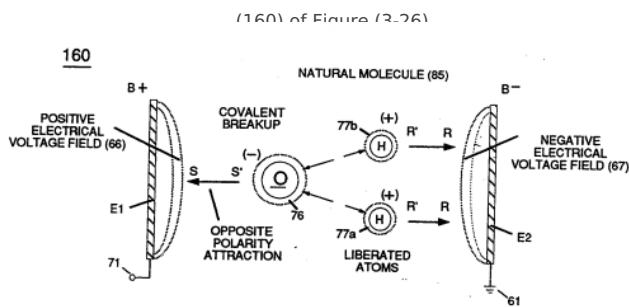


FIGURE 4-4: SPRAY PATTERN

Secondly, **ionized air gases** (46a xxx 46n) of Figure (4-4) (laser primed ambient air gases having missing electrons) produced by **Ambient Air Ionizer** (80) of Figure (4-6) as to Figure (4-1) and **non-combustible gases** (45) of Figure (4-4) are intermixed with **expelling water mist** (47a xxx 47n) to form **Water-fuel** mixture (48) by way of **gas mixing disc** (34) of Figure (4-5) as to (30) of Figure (4-2);

thirdly, the resultant moving **Water-Fuel** mixture (48) of Figure (4-5) enters into **Voltage Igniter Stage** (180) of Figure (4-5) and exposed to high intensity voltage fields (33/36) ( *typically 2,000 volts or above @ 10 Khz or above*) of opposite electrical polarity (E7 / E8)

...which, in turn, not only performs electrical polarization process (160) of Figure (3-26) undergoing **Dielectric Resonant** (240) of Figure (3-31);



but, also, sets up and triggers **Hydrogen Fracturing Process** (390) of Figure (3-42) as to Figure (3-6) under control state (on demand) via **electrical-static spark ignition** (49/51) of Figure (4-5)

## Hydrogen Fracturing Process (390) of Figure (3-42)

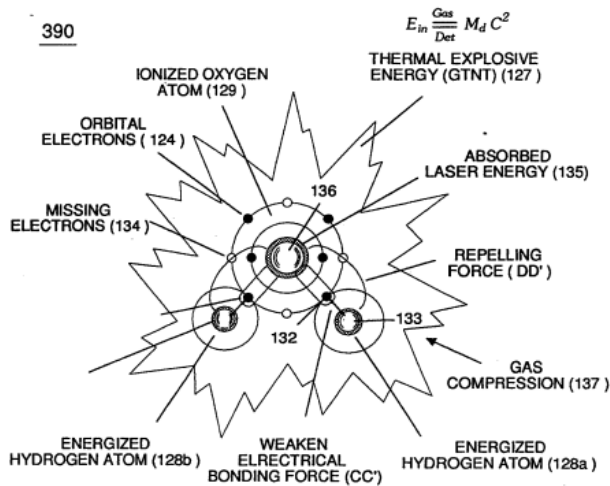


FIGURE 3-42: HYDROGEN FRACTURING PROCESS

Figure (3-6)

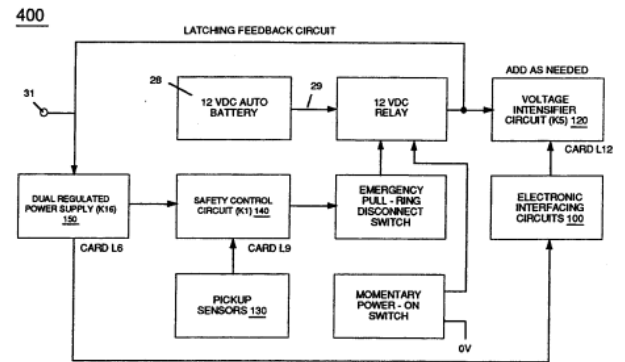


FIGURE 3-6: SAFETY INTERLOCK CIRCUIT

Figure (4-5)

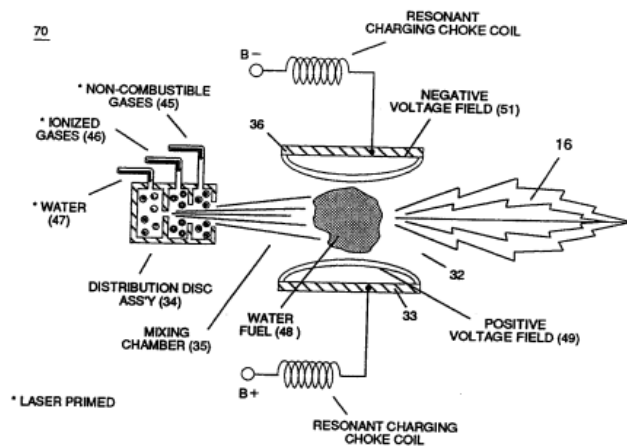


FIGURE 4-5: VOLTAGE TRIGGERING

.... releasing **thermal explosive energy** (gtnt) (16) passing beyond gas exit port (32) of Figure (4-5), as further illustrated in Figure (4-2) as to Figure (4-1).

Figure (4-2)

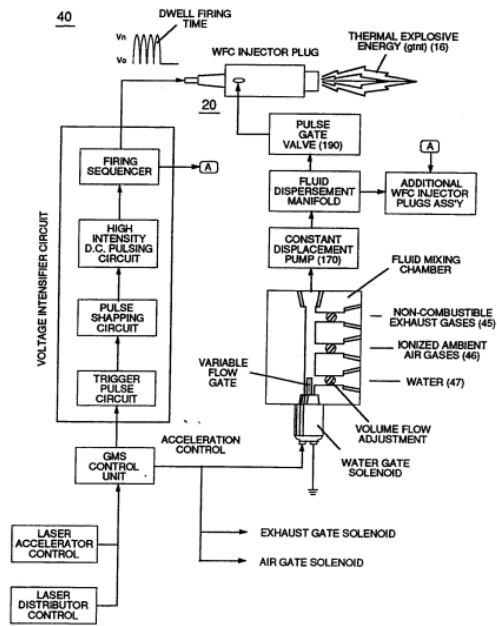


FIGURE 4-2: WATER FUEL MANAGEMENT (WFM) SYSTEM

Figure (4-1)

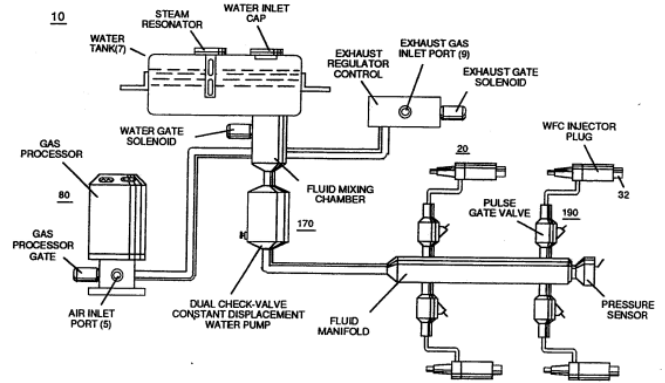


FIGURE 4-1: WATER FUEL INJECTOR SYSTEM

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