

Electron Bounce Phenomenon

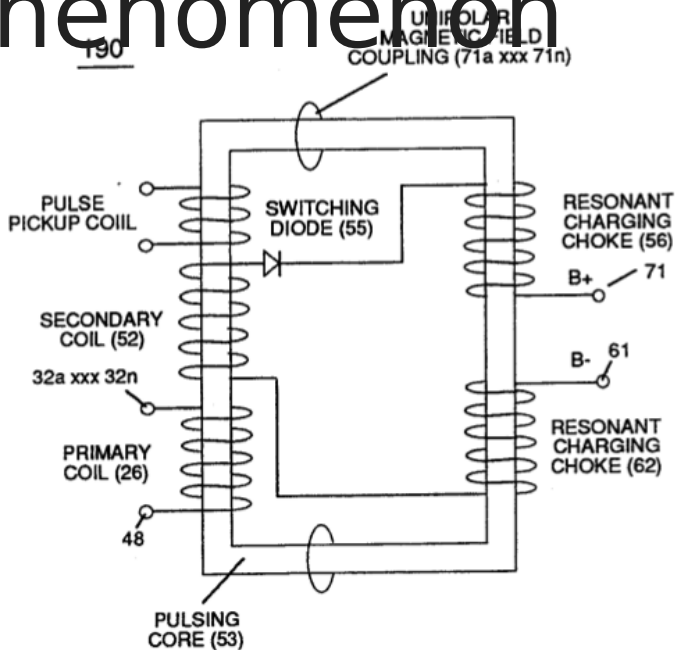


FIGURE 3-23 : PULSING CORE CONFIGURATION

High Voltage Potential of Difference

($V_o - V_n$) ($SS' - 617 - RR'$) is accomplished when magnetic flux **lines of force** (71a xx 71n) (R_p) emanating away from closed-loop **magnetic pulsing core** (53) of Figure (190) penetrates Inductance coil-windings (52 - 56 - 62) simultaneously during each and every pulse on-time ($T1a$ xxx $T1n$) as programmable pulse-train (49a xxx 49n $T3 - 49a$ xxx 49n) is adjusted to "Tune - in" to the dielectric property of **Water** (Re)

.... causing **mutual inductance** (μ_1) (see equations Eq 28 thru Eq 30) to transform **Distributed Capacitance** (C_{da} xxx C_{dn}) of Figure (7-3) of each **inductance coils** (52 - 56 - 62) into a coherent **Voltage Potential** ($V_o \bullet \dots V_n$) equaling the sum of **Voltage Potential** (V_p) developed across each **Pickup Coils** ($V_{pT} + V_{p1} + V_{p2}$)

Distributed Capacitance (Cda xxx Cdn) of Figure (7-3)

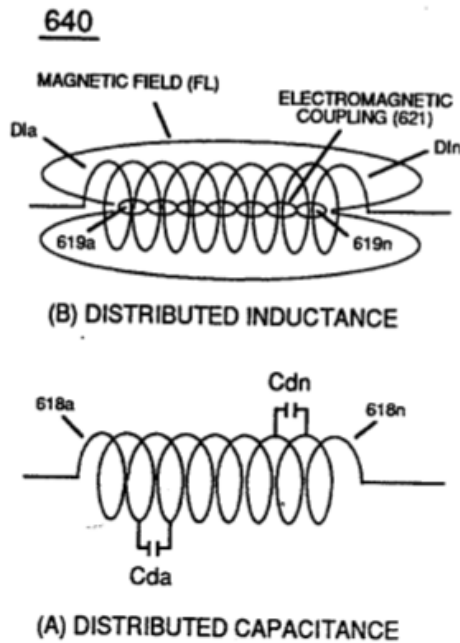


FIGURE 7-3: COIL INTERACTION

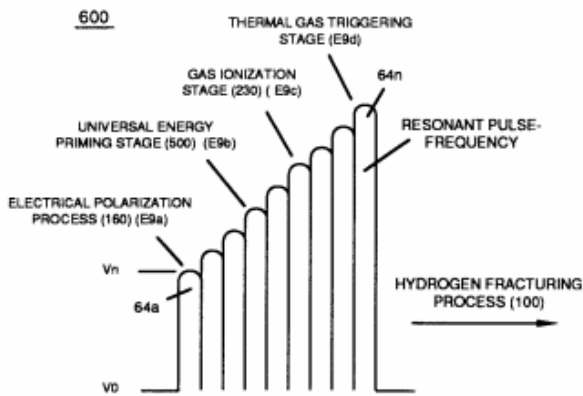


FIGURE 6-3: DYNAMIC VOLTAGE POTENTIAL

equations Eq 28 thru Eq 30

Where, (M) is the **mutual inductance** expressed in the same units as (La), (La) is the total inductance of **Primary coil** (26) and **Secondary coil** (52) with fields aiding.

(Eq 28)

$$M = \frac{La}{4}$$

Coupling Inductance (Rp) between the **Primary coil** (26) and **Secondary Coil** (52) is further extrapolated in the following equation: Where, (Lt) is the **total inductance**, (L1) and (L2) are the **inductance** of each individual transformer coils (26)(52), (M) is the **mutual inductance** of each **transformer coil** (26/52) being in parallel relationship with fields aiding.

(Eq 29)

$$Lt = \frac{1}{\frac{1}{L1 + M} + \frac{1}{L2 + M}} \text{ Transformer}$$

Coupling Inductance (Rp1) and (Rp2) in (690) of Figure (7-8) is further expressed in the following equation: Where, (Lt cc) is the total inductance of **Choke Coils** (FL1 - FL2), (L1) and (L2) are the **inductance** of each individual choke coil (56)(62) in series with **Secondary Coil** (52) **Electrical Voltage Potential** (700) of Figure (7-9) and being exposed to the same **Voltage Transformer** (26 - 53 - 52) **magnetic field** (Rp) with aiding fields, (M) is the **mutual inductance** of **choke coils** (L1/L2) since **Transformer Magnetic Field** (Rp) is the **excitation External Magnetic Field** (Rp1/Rp2) by way of **Unipolar Pulsing Core** (53).

(Eq 30)

$$Lt_{cc} = L1 + L2 + 2M \text{ Choke Coils}$$

... producing **Dynamic Voltage Potential** (600) of Figure (6-3) during repetitive pulsing (49a xxx 49n - T3 - 49a xxx 49n)

... setting up and performing pulsating **Opposite Electrical Attraction Force** (SS' ~ 617 ~ RR' - T3 - SS' ~ 617 - RR') of Figure (7-4) as to **Voltage Dynamics** (220) of Figure (3-29)

Opposite Electrical Attraction Force (SS' ~ 617 ~ RR' - T3 - SS' ~ 617 - RR') of Figure (7-4)

650

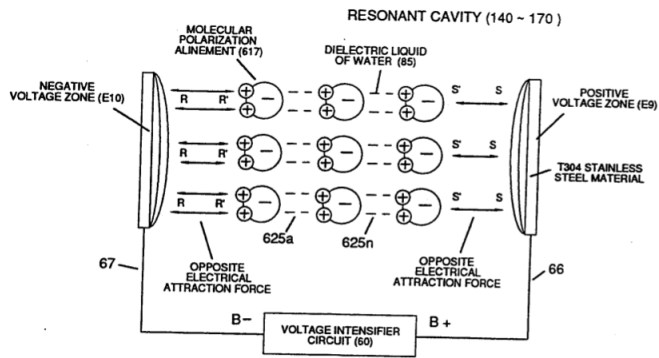


FIGURE 7-4: ELECTRICAL CHARGING EFFECT

Voltage Dynamics (220) of Figure (3-29)

220

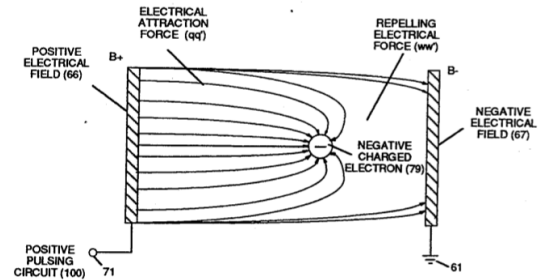


FIGURE 3-29: VOLTAGE DYNAMICS

... triggering **Hydrogen Fracturing Process** (90) of Figure (5-5) as to (100) of Figure (4-8) ... instantly releasing thermal explosive energy (gtnt) (16) from **Water** (85) on demand, as illustrated in **Taper Resonant Cavity** (590) of Figure (6-2) as to (70) of Figure (4-5).

Hydrogen Fracturing Process (90) of Figure (5-5)

90

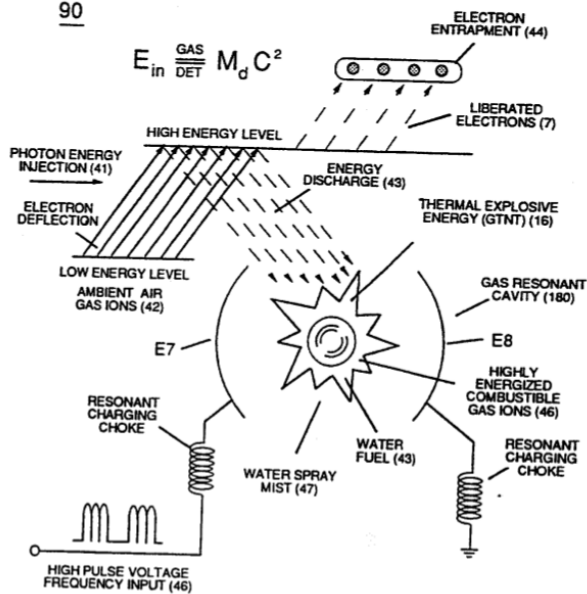


FIGURE 5-5: VOLTAGE IGNITION

(100) of Figure (4-8)

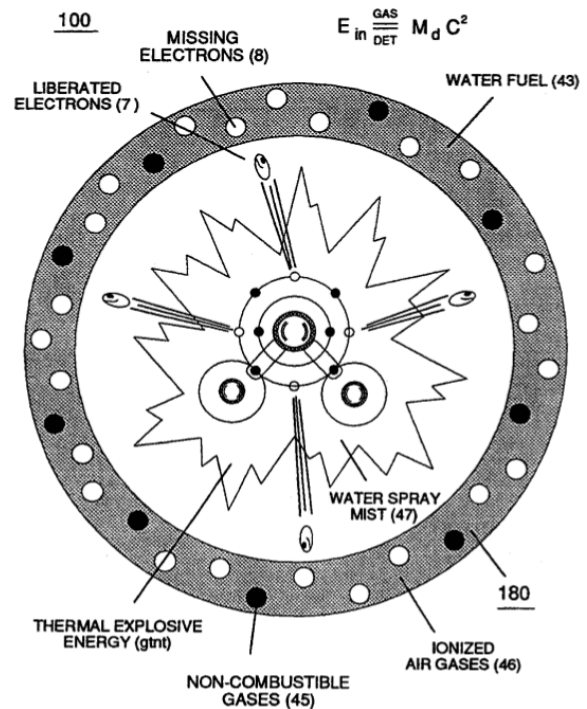
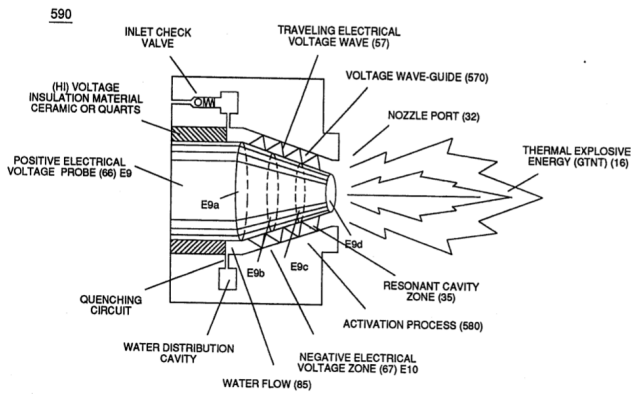


FIGURE 4-8: GAS IGNITION STAGE

Taper Resonant Cavity (590) of Figure (6-2)



(70) of Figure (4-5)

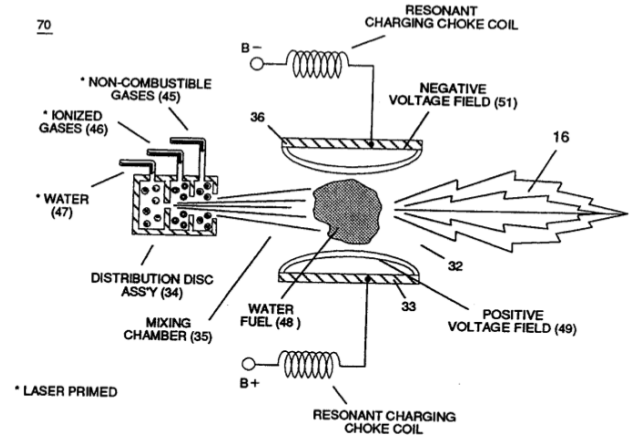
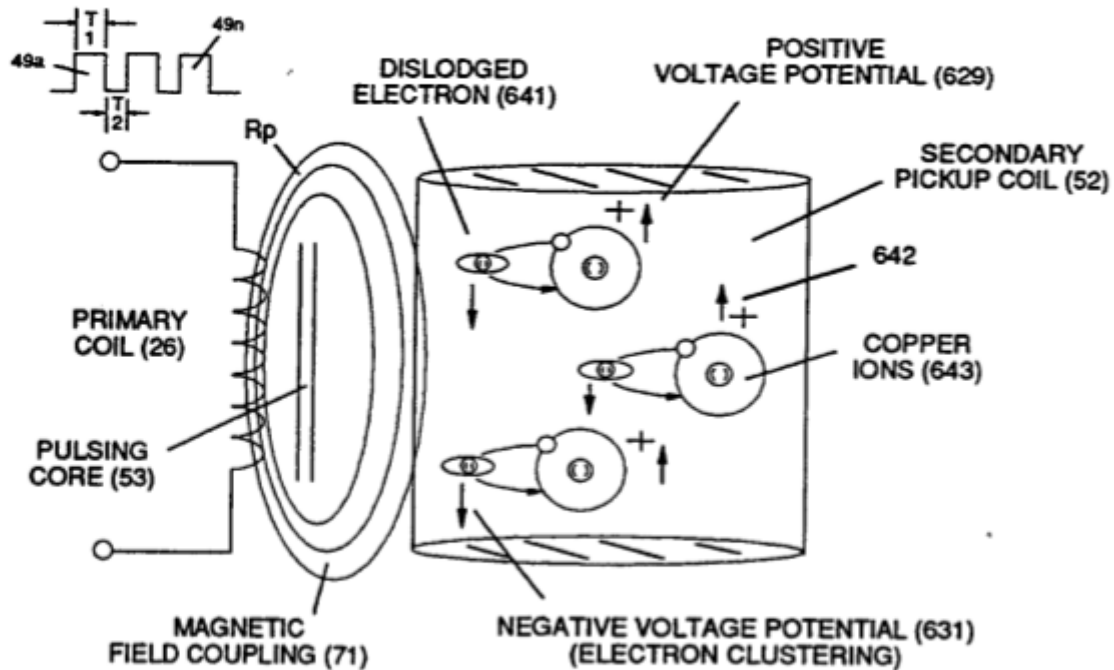


FIGURE 4-5: VOLTAGE TRIGGERING

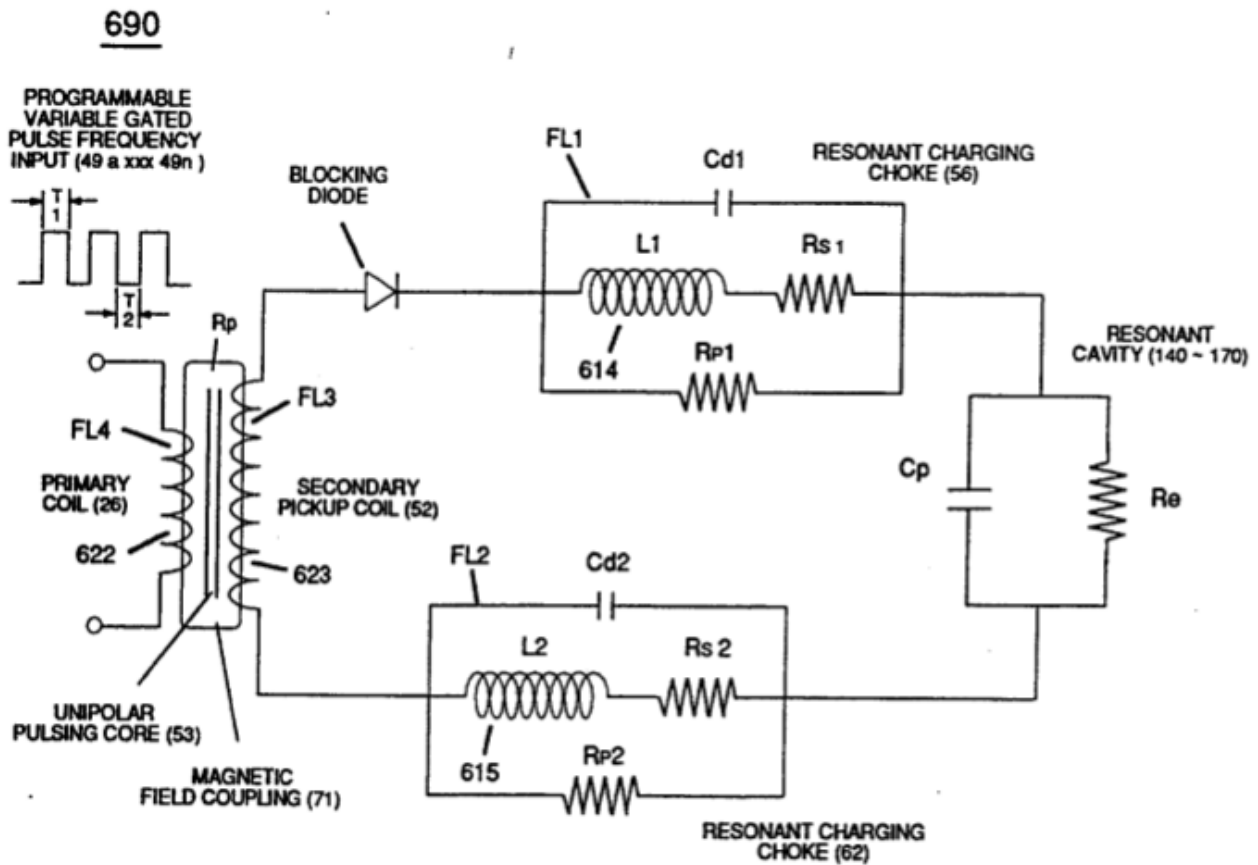
The resultant **Dynamic Voltage Potential of Difference** (opposite electrical attraction force) (SS' - 617 •... RR') is in balance phase of equal electrical intensity (66 = 67) of opposite polarity (positive electrical voltage potential 66 equals negative electrical Voltage potential 66 since the **Voltage Coefficient of Inductance** (FL1/FL2), **Voltage Coefficient of Capacitance** (Cd1/Cd2), and **Voltage Coefficient of Resistance** (Rs1/Rs2) across choke coils (L1/L2) are the same values

... allowing, **Voltage Bounce Phenomenon** (700) of Figure (7-9) to be preformed.

700

FIGUREM 7-9: ELECTRON BOUNCE PHENOMENON (EbP)

Magnetic Field Coupling (71) of Figure (7-9) entering into and passing through **Secondary Coil-winding (52)** of Figure (7-8) causes and produces copper ions (643a xxx 643n) (Positive Charged atoms 542a xxx 542n having missing electrons) when moving external electromagnetic field strength (71a xxx 71n) is sufficient enough to dislodge electromagnetically charged electrons (641a xxx 641n) from copper atoms making up copper wire material (52).



Collectively, the resultant **positive electrical charged copper ions** (642a xxx 642n) added together produces **Positive Voltage Potential** (629) being electrically applied to **choke-coil** (56);

whereas, the "Liberated" **negative electrical charged electrons** (641a xxx 641n) added together provides **Negative Voltage Potential** (631) to the opposite end of **Secondary Wire** (52) being electrically connected to **choke coil** (62).

Once **Secondary Coil**-winding (52) is de-energized by the removal (collapsing magnetic field during pulse off-time T2 of external **Magnetic Field** (71), the **dislodged electrons** (641a xx 641n) return to **positive charged copper ions** (642a xx 642n)

... terminating and switching off opposite voltage potential (629 - 631) when positive electrical state of the **copper atoms** changes back to net electrical charge of zero.

Sustaining and maintaining the resultant induced **Voltage Potential** ($V_o - V_n$) without "**Electron Discharged**" (inhibiting electron flow) through **Choke Coil** (62) while, at the same

time, inhibiting (preventing) any additional or other electrons from entering into **Secondary copper wire-zone** (52) by way of **Choke Coil** (56) is herein called "**Electron Bounce Phenomenon**" (EbP), as illustrated in (700) of Figure (7-9).

(700) of Figure (7-9)

700

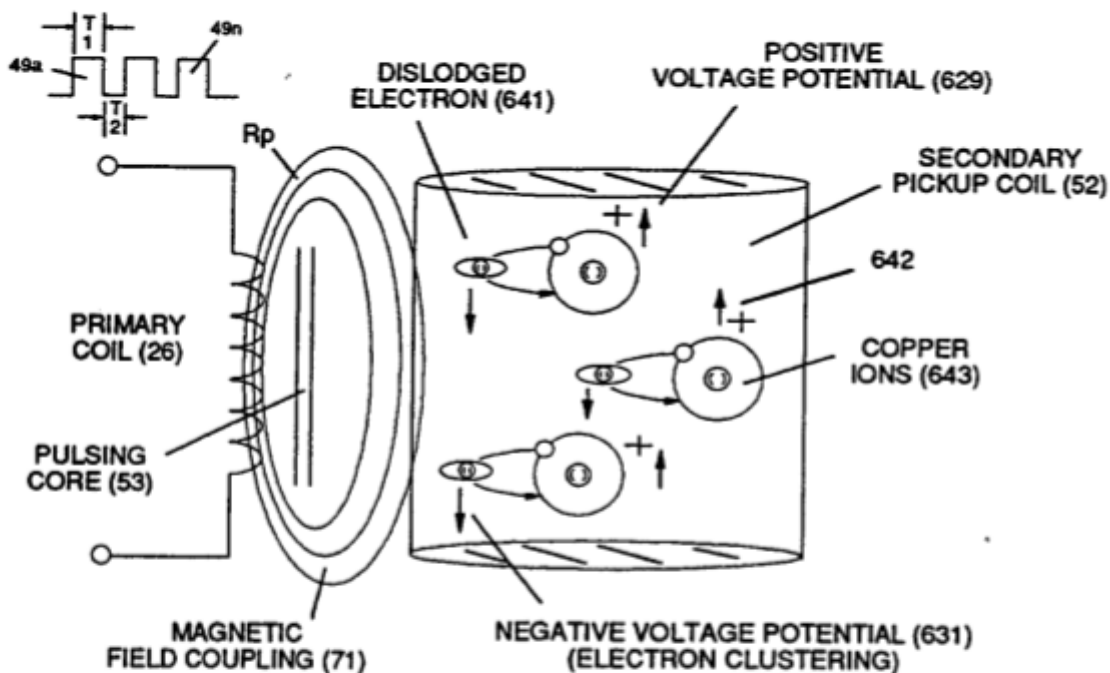


FIGURE 7-9: ELECTRON BOUNCE PHENOMENON (EbP)

90

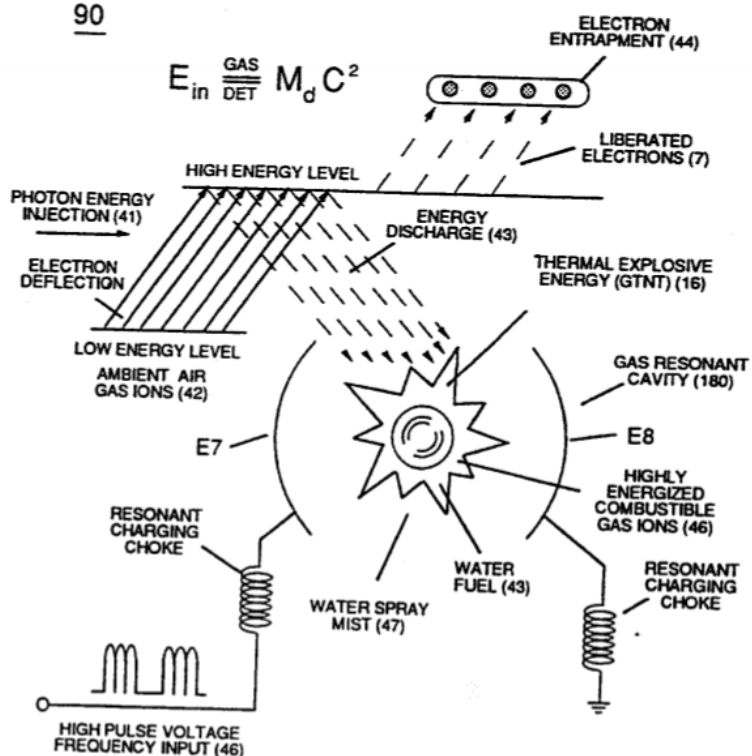


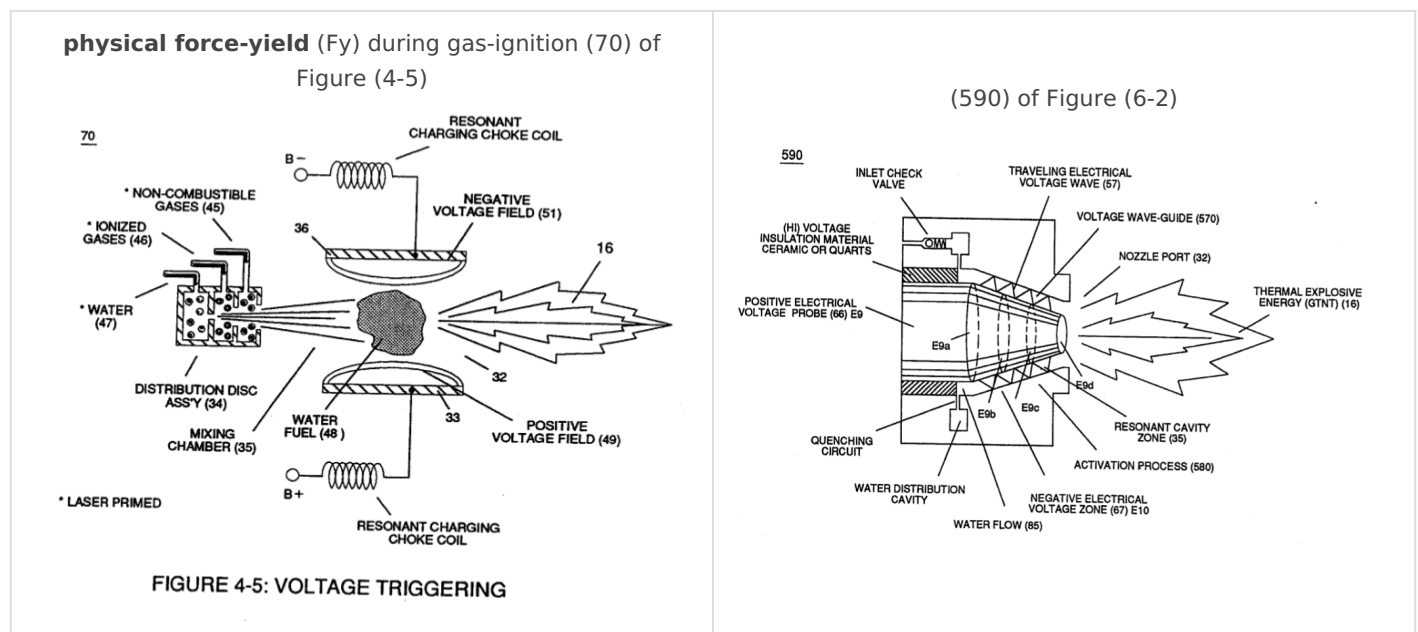
FIGURE 5-5: VOLTAGE IGNITION

together, **Electron Bounce Phenomenon** (EbP), **Voltage Coefficient of Inductance** (F11/F12), **Voltage Coefficient of Capacitance** (Cd1/Cd2), **Voltage Coefficient of Resistance** (Rs1/Rs2), and **Dielectric Coefficient of Water resistance** (Re) allows **Voltage Potential** (Vo - Vn) of opposite electrical polarity to perform work (SS' _ 617 _ RR') without amp influxing, thus, not allowing the introduction of electron flow into **Hydrogen Fracturing Process** (90) of Figure (5-5) during **Voltage Stimulation** (SS' - 617 _ RR')

... causing "**electron clustering**" (641a xxx 641n) to take place within **Copper Wire Zone** (52) during pulse on- time (T1)

... inhibiting "electron flow" to maintain opposite voltage potential (66/E9 _ 67/E10) across **Resonant Water Gap** (616) during the process of converting water-fuel (85) into instant thermal explosive energy (gtnt)

... therefore, producing a **physical force-yield** (Fy) during gas-ignition (70) of Figure (4-5) which is directly related to the liquid volume of water (85) per injection cycle and applied **Resonant Voltage Intensity** (Yo -Vn), as illustrated in (590) of Figure (6-2) as to (90) of Figure (5-5).



Of course, in practical terms of component interaction, a minute amount of amp leakage is present and does occur due to **Electronic Component Limitations** but is negligible as to the overall performance of the **Hydrogen Fracturing Process** (590) of Figure (6-2) when being subjected to either one of **Traveling Electrical Voltage Wave-forms** (730 a-b-c) of Figure (7-12), see **Voltage Graph** (750) of Figure (7-14) once again.

Traveling Electrical Voltage Wave-forms (730a - b - c)
of Figure (7-12)

730

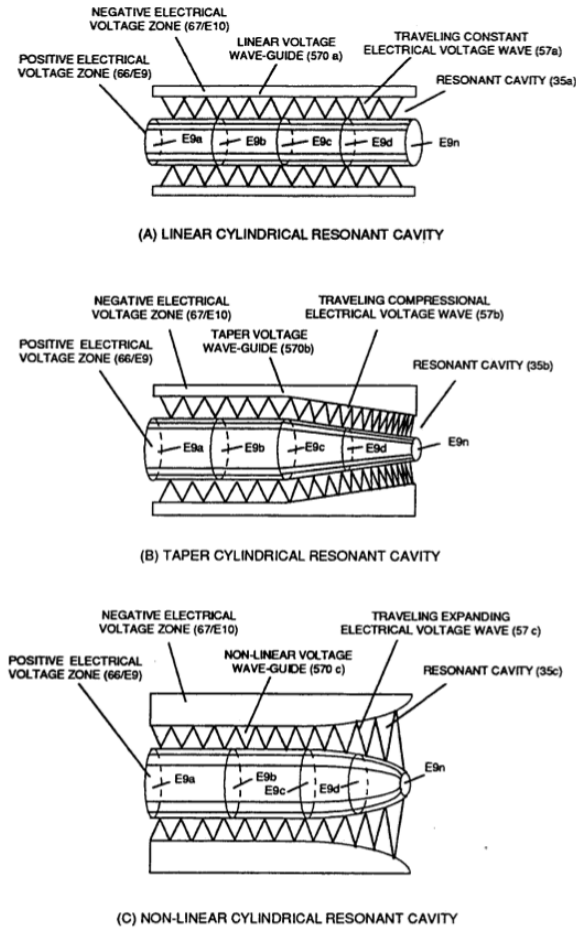


FIGURE 7-12: RESONANT CAVITY ELECTRICAL VOLTAGE WAVE

Voltage Graph (750) of Figure (7-14)

750

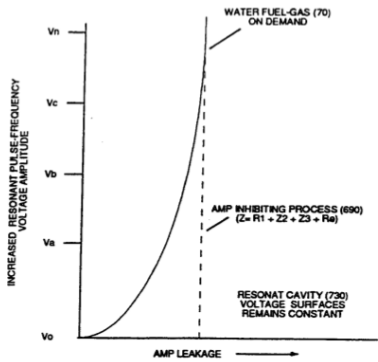


FIGURE 7-14: RESONANT CAVITY WATER-FUEL INJECTION