

# 8-5 - Energy Vectoring (Ev)

The "mode of operability" of determining the "Operational Parameters" of adjusting the thermal explosive energy (gtnt) exiting from nozzle-port (32) of Figure (4-5) as to (40) of Figure (4-2) is directly related to the characteristics of the applied **Voltage Pulse Potential (Vpp) Wave-form (s) (Vpwt)** and the geometrical configuration of **Resonant Cavity (90)** of Figure (4-7) as to (730) of Figure (7-12).

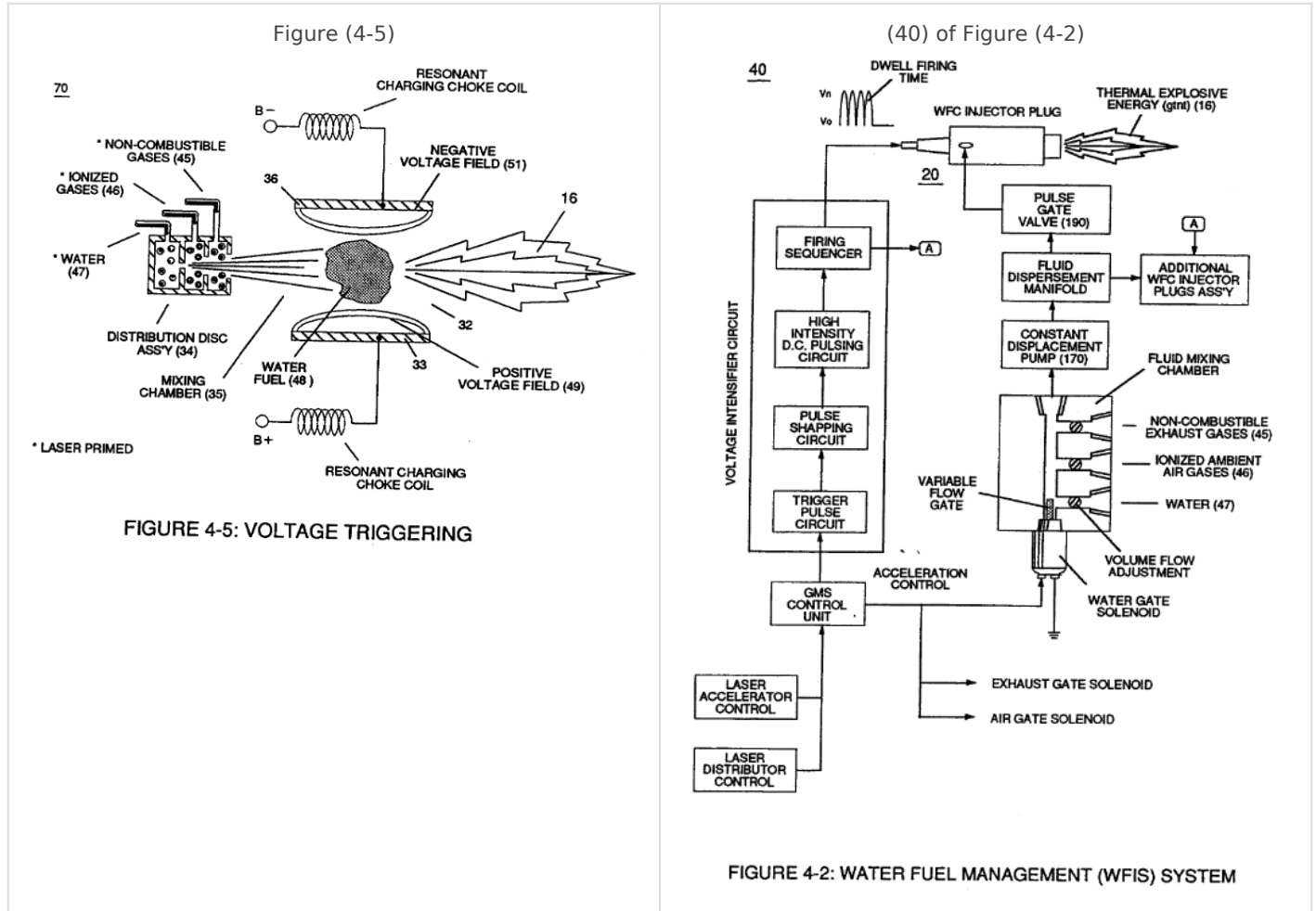
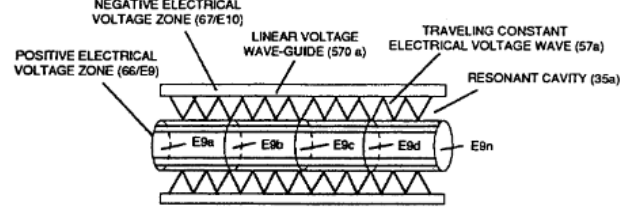
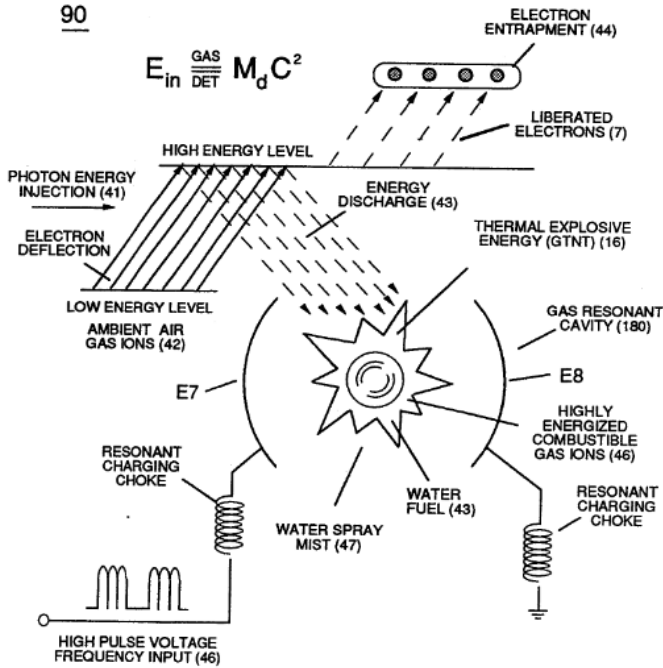


FIGURE 4-5: VOLTAGE TRIGGERING

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

90

730

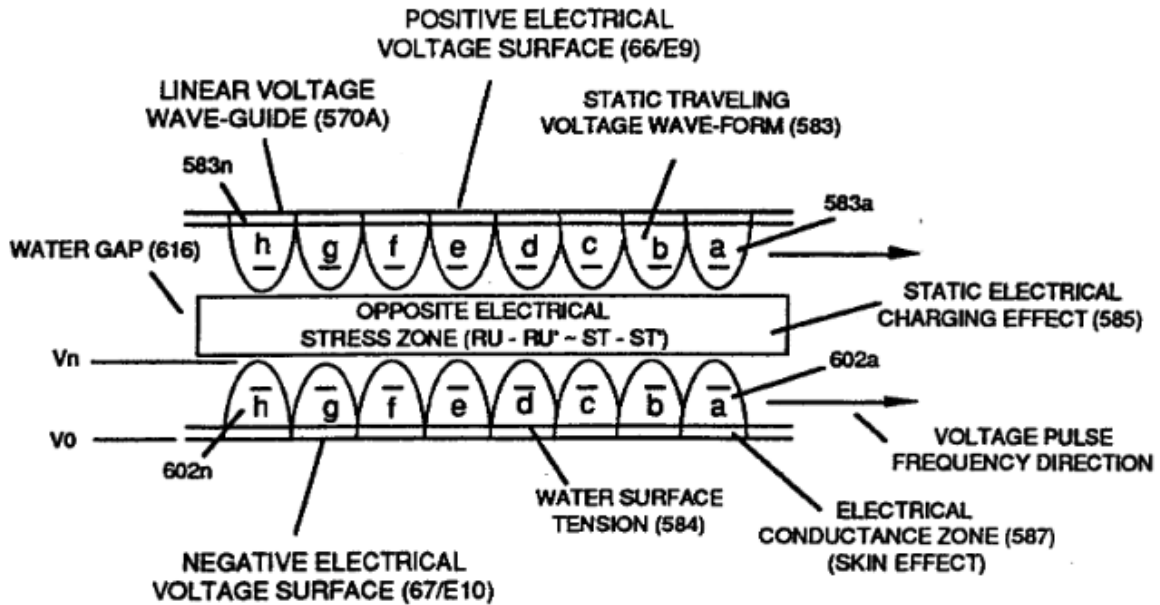


(A) LINEAR CYLINDRICAL RESONANT CAVITY

FIGURE 4-7: VOLTAGE IGNITER STAGE

In terms of Voltage Pulse Wave-form (s) (Vpwt) several "**Electrical Operational Parameters**" exist:

**Dynamic State Space (Dss)** which continually changes/varies Electrical Attraction Force (RR' - SS' as to RU/RU' - ST/ST') from low stress intensity (S-low) to high stress intensity (S-high) and back to low stress point (S-low) as to **Arc Curve (Vac)** forming **Voltage Pulse Field (Vpt)** atop **Voltage Pulse Burst (Vpb)** ... which combined together (Vpf + Vpb) Electrical Stress (Es) variances corresponds to the **Voltage Pulse Shape** of each synchronized **opposite Voltage Pulse Wave (583 - 602)** of (770A) of Figure (8-1) being produced during applied **Voltage Pulse Operation (49a xxx 49n)**;

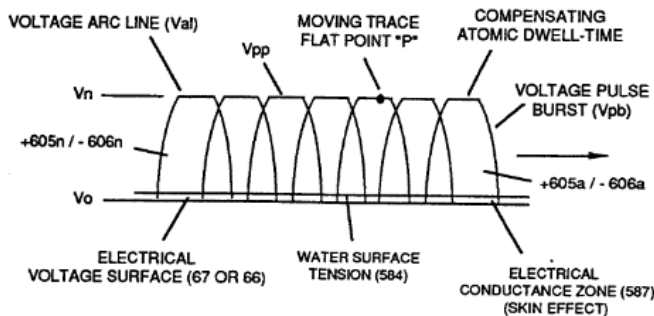


(A) STATIC VOLTAGE STIMULATION

**Static State Space (Sss)** is the electrical condition by which Electrical Attraction Force ( $RR' - SS'$  as to  $RU/RU' - ST/ST'$ ) is being held constant once **Voltage Pulse Burst Vpb)** occurs during **Voltage Pulsing Operation (Vpwf)** ... forming synchronized **Clipped Voltage Wave-form (780C)** of Figure (8-2) in like manner to voltage sync-pulse (583 - 602).

Clipped Voltage Wave-form (780C) of Figure (8-2)

(B) CROSSOVER UNIPOLAR PULSE-TRAIN

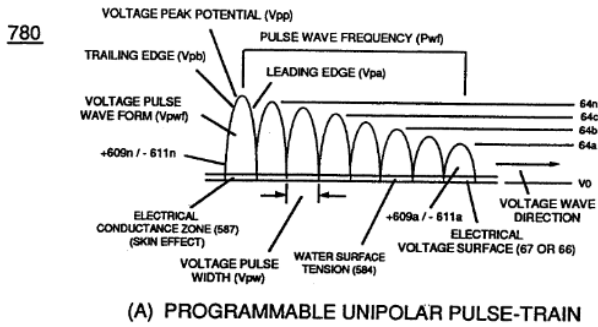


(C) CLIPPED UNIPOLAR PULSE-TRAIN

FIGURE 8-2: PROGRAMMABLE VOLTAGE PULSE-WAVE

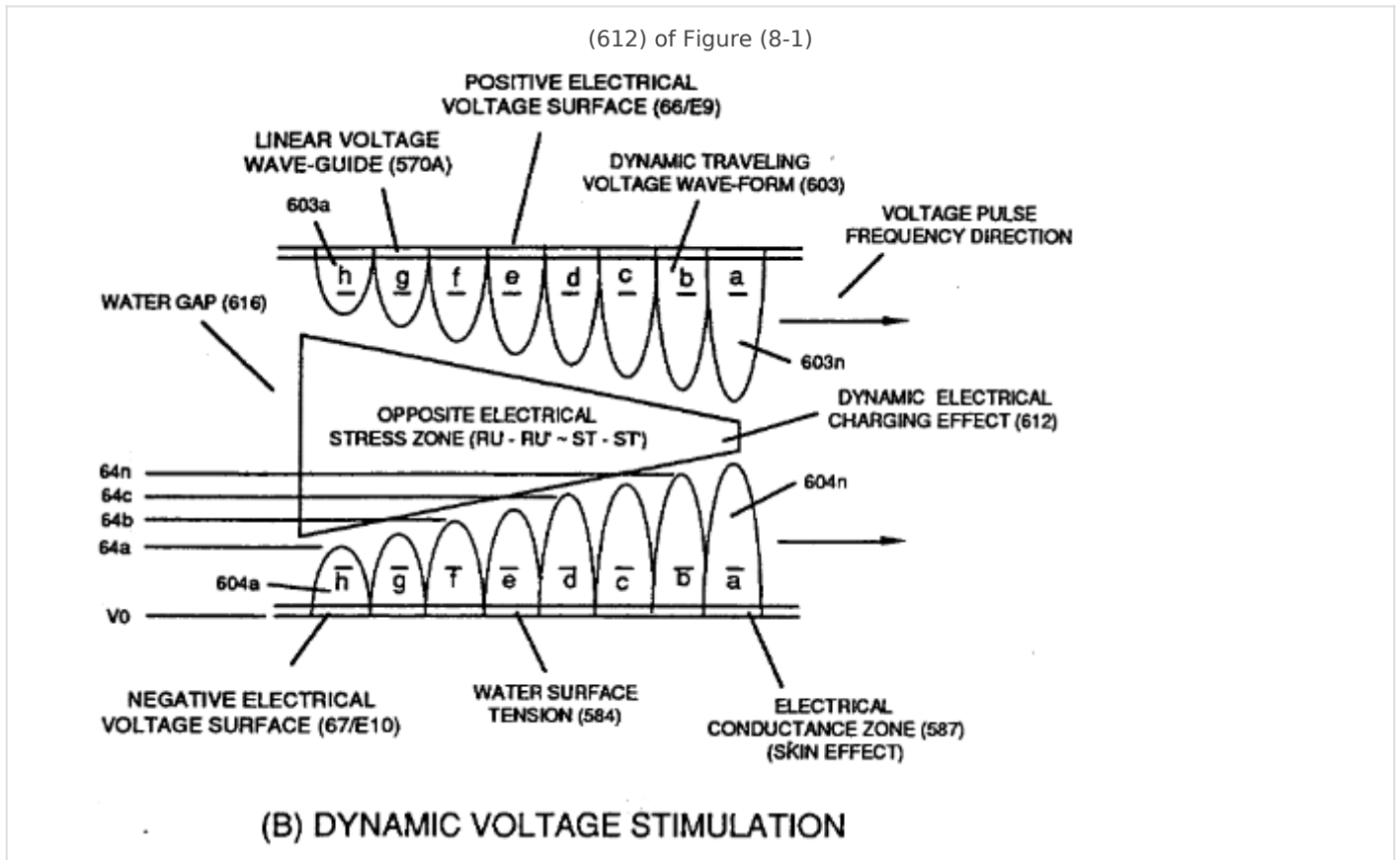
In the area of **Voltage Sync-Wave (+/-)** propagation, **Unipolar Voltage Pulse Train (583/602a xxx 583/602)** of (770A) of Figure (8-1), **clipped Voltage Pulse Train (605/606a xxx 605/606n)** of Figure (780C) of Figure (8-2), and **Crossover Unipolar Pulse Train (607/608a xxx 607/608n)**

brings-on **Static Voltage Stimulation (Vsvs)** by which **Static Electrical Charging Effect (585)** is being held constant since **Electrical Stress Force (Est)** averages out either Dynamic State Space (Dss) or Static State Space (Sss) during repeated pulsing operation (49a xxx 49n).



On the other hand, **Progressive Voltage Sync-Wave (+609 / - 611)** (609/611a xxx 609/611n) of Figure (780A) of Figure (8-2) encourages **Dynamic Voltage Stimulation (Dvs)** since **Voltage Peak Potential (Vpp)** increases as **Voltage Sync-Wave Front** (a to b to c and so on) advances in the number of **Unipolar Voltage Pulse (s) (Vwp)**, as illustrated in Figure (3-21) ... causing Dynamic State Space (Dss) or Static State Space (Sss) to be progressively increased in **Electrical Stress Intensity (Esi)** during a given space-time continuum

... producing **Dynamic Electrical Charging Effect (612)** of Figure (8-1) that increases Electrical Stress Pressure (Espa + Espb + Espc, and so on) continually during each gated voltage pulsing cycle (49a xxx T3 xxx 49n).



To further adjust incoming **Voltage Priming Stage (Vps)**, Unipolar Voltage Pulse Train (Vpt) is either gated full-on to allow space-time continuum or back-off in gated format from 100% to a lower percent (%) of Pulse-Frequency on-time, as illustrated in Figure (3-20).

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