

# Gated Pulse Frequency generator (80)

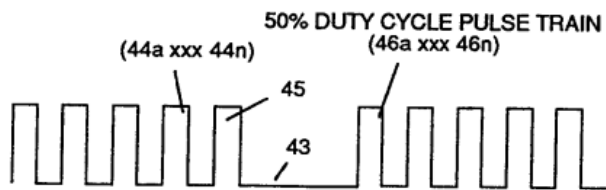


FIGURE 3-17: GATED PULSE TRAIN

## Gated Pulse Circuit (80) of Figure (3-5)

switches "off" and "on" sections of incoming clock signal (42) to form **gated pulse** (45) which is, in turn, duplicated in succession to produce **gated pulse train** (46a xxx 46n) of Figure (3-17).

Together **pulse train** (44a xxx 44n) and **pulse off-time** (43) forms **gated pulse duty cycle** (45).

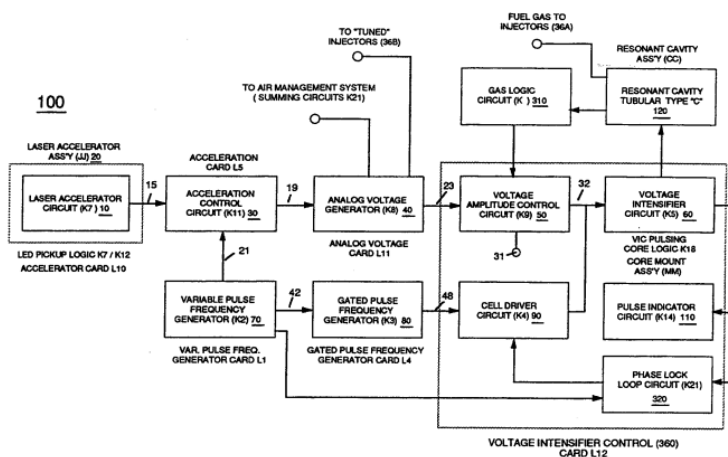


FIGURE 3-5: HYDROGEN GAS CONTROL CIRCUIT

**Pulse train** (44a xxx 44n) is exactly the same as **pulse train** (41a xxx 41n) and its established **pulse frequency** (*number of pulse cycles per unit of time*) changes uniformly when **pulse generator** (70) of Figure (3-5) is calibrated and adjusted for system operations.

Newly formed **gated duty pulse** (45) is proportional to the physical change in **pulse train** (44a xxx 44n) when **circuit** (80) is adjusted for calibration purposes.

**Pulse train** (44a xxx 44n) becomes **widened** while **pulse off-time width** (43) becomes **smaller**, simultaneously.

Conversely, opposite **pulse shaping occurs** when **circuit** (80) of Figure (3-5) is **calibrated in reverse order**.

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