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(54) Title: A SYSTEM AND A METHOD FOR REDUCING PARTICULATE POLLUTANTS IN AIR, USING PULSED ELECTROMAGNETIC WAVES

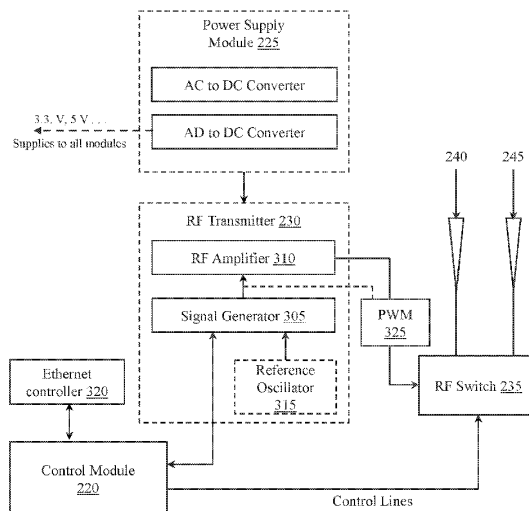


Figure 3

(57) Abstract: Disclosed is a system and method for reducing particulate pollutants in air, using pulsed electromagnetic waves. The disclosed system 200 comprises a device 215 configured for radiating radio waves, preferably in the frequency range of 800 MHz to 5 GHz in a predefined pulsed manner. Essentially, the disclosed device comprises a radiofrequency oscillator 315 configured for oscillating at the predefined frequency. The signal is then suitably power amplified with an RF amplifier 310 and using a suitable switch 235 the amplified output is routed to one of an omnidirectional antenna 240 and directional antenna 245 for radiating the pulsed radio waves to the atmosphere.

[Continued on next page]

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