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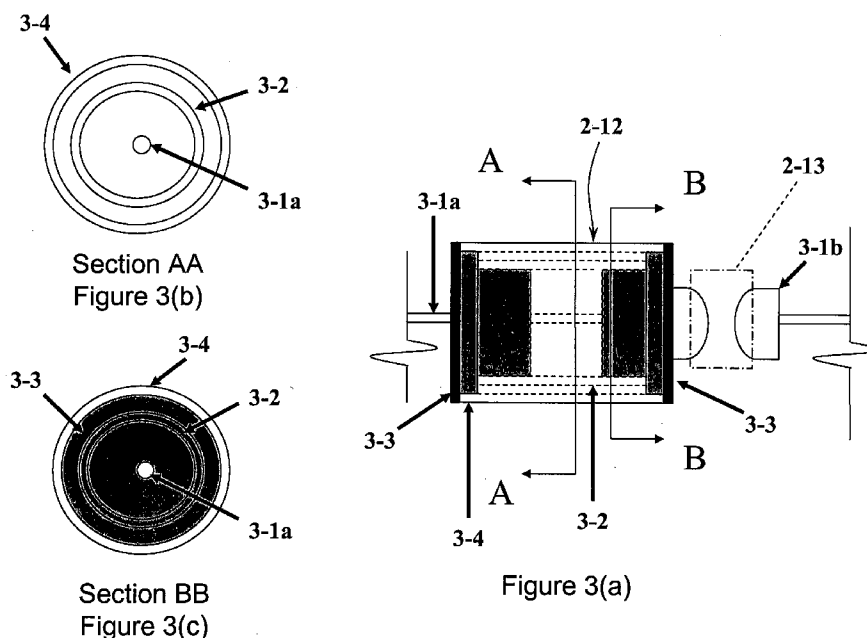


Figure 3

(57) Abstract: A cooling device is based on the cooling effect exhibited by high-voltage, 4 4.5kV, unidirectional pulses discharging across a spark gap (2-13) in less than 100 ns. The cooling effect is extended spatially by an emitter (2-12) comprising two (3-2,3-4) coaxial metallic tubes that are electrically isolated from the spark gap electrodes. Such a device is particularly suitable for air conditioning in both residential and transport applications.

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