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(54) HEAT CONDITIONING THROUGH DEFLECTION/REFLECTION/ABSORPTION OF ELECTROMAGNETIC WAVES

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(57)**ABSTRACT**

A system for heat conditioning an area of Earth includes an Earth-orbiting satellite. The satellite includes a power supply, a precursor gas supply, and one or more double helicon plasma beam generators coupled to the power supply and the gas supply and configured to generate a plasma and further configured with a magnetic nozzle to maintain a shape of the beam; therefore, the top surface area of the beam is maximized. The generated plasma provides enhanced electromagnetic waves absorption, reflection, and deflection of incoming solar light and electromagnetic radiation, thereby reducing the heat striking the area of the Earth.

