

# *Executive Summary*

## EARTH COOLER™

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The Earth Cooler™ is a practical device that offsets the phenomenon of global warming caused by modern man. This unique device utilizes the abundant cooling available in deep space at a temperature of 4K to remove parasitic heat from the surface of the earth nominally at 290K. A blackbody at 290K will radiate 450 W/m<sup>2</sup>, and the earth's atmosphere is transparent to IR energy in the 8µm to 13µm band. Therefore approximately 40% of the IR energy transmitted away from the earth's surface will travel through the atmosphere unattenuated into deep space.

United States daily oil consumption produces approximately 3064 watts of thermal waste per person which can be completely eliminated by 65 square meters of Earth Cooler™ arrays per person radiating nightly for nine hours to deep space. A designated land area of 2603 square miles with Earth Cooler™ arrays will transmit to deep space the total thermal waste from crude oil used in the U.S. daily. Several prototypes have been built and tested for three years.

This is the only device in existence developed exclusively to reduce global warming.

Millions of units can be marketed annually to the general public to preserve the environment while providing an opportunity to make a critical investment in reducing global warming. The simplest design of the device can be set out at night to aid in cooling the surface of the earth. A more sophisticated design can be used to transmit waste heat produced by thermal polluters away from the atmosphere and into deep space. Any industry (power utility, steel mill, restaurant, automotive, foundry, etc.) can utilize the device to offset its thermal pollution.

The estimated cost to make a standard 10" x 10" Earth Cooler™ panel would be \$6, and it would be sold as a consumer item for \$24.95. This device could be used interactively by anyone seven years and older. Interactive use would entail showing the daily amount of thermal cooling that was produced by the device, whether displayed in watt-hours, barrels of oil, gallons of gasoline, etc. That would be the amount of waste energy offset by using the Earth Cooler™.

The desire by consumers to own such a novel device would have the same appeal as owning a pet rock, the same fun as owning a Hoola-Hoop®, yet with the added benefit and practical solution of helping to combat the scourge of global warming created by modern man, making the marketing strategy for the Earth Cooler™ very simple.

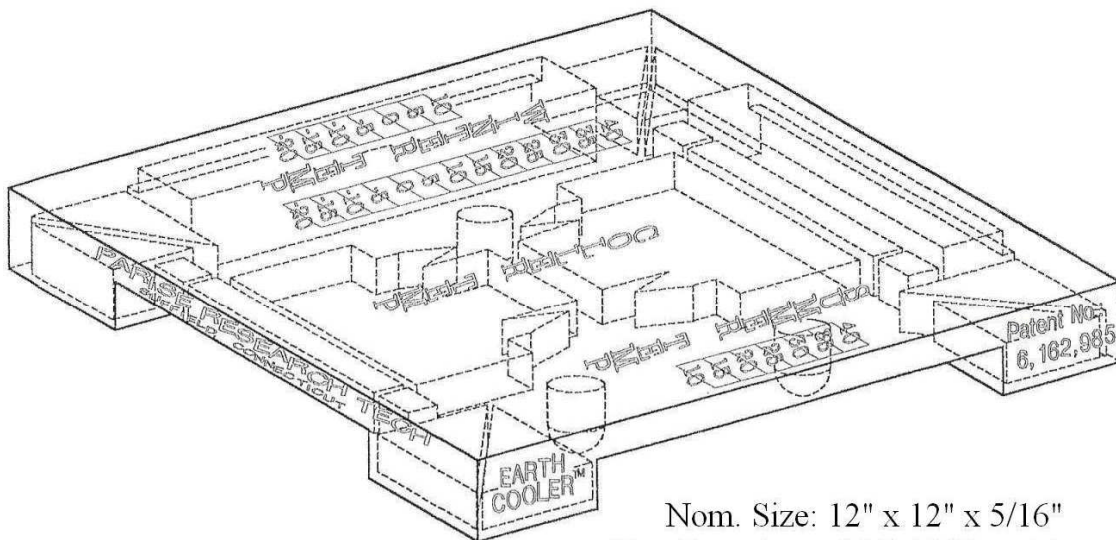
Patent Pending and partially covered under U.S. Patent Nos. 5,936,193 and 6,162,985.

The Earth Cooler™ name has been trademarked through the USPTO with no opposition, attaining the trademark status "with intent to use". The first unit marketed will then identify the product as an official registered trademark in the United States with the well known ® moniker.

Will license/sell technology for the development of Earth Cooler™ products and devices.

[3 References]

## ANTI-GLOBAL WARMING DEVICE



Nom. Size: 12" x 12" x 5/16"  
Est. Capacity at 25C (77F) ambient:  
10 Watts of Earth Cooling