

TECHNOLOGY READINESS LEVEL: 5

US PATENT # 7,077,532

KEY ELEMENTS OF THIS TECHNOLOGY HAVE BEEN DEMONSTRATED IN RELEVANT ENVIRONMENTS.

TECHNOLOGY SUMMARY

There has long been a need for a low cost, high-performing solar collector that will allow solar thermal power to compete with other power sources. While advancements have been made, a need for a cost effective and durable solar collector still exists. Sandia National Laboratories has developed a solar collector that is more efficient, utilizes advanced and low cost manufacturing processes, and has good optical properties.

Unlike other solar collectors that are known to lose solar reflectivity due to issues with their design, the solar collector developed by Sandia is designed to maintain performance and efficiency for many years. It is designed to be durable to environmental stresses allowing optical properties to be maintained.



POTENTIAL APPLICATIONS

- Solar Energy
- Renewable Energy
- Solar Thermal Power

TECHNOLOGICAL BENEFITS

- Low cost materials used to construct the solar collector
- Advanced, low cost manufacturing processes
- Durable to environmental stresses
- Optical properties are maintained over many years due to durability
- Greater Power
- Greater Efficiency

TECHNOLOGY INQUIRY?

For more information or licensing opportunities contact us at

ip@sandia.gov

Refer to SD # 6358

or visit

<https://ip.sandia.gov>