

Modular Off-Axis Fiber Optic Solar Concentrator

Disclosure Number

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Technology Summary

At least three companies have commercialized systems that collect and distribute sunlight via optical fibers for interior lighting: Sunlight Direct, Himawari, and Parans. The invention proposed herewith, a Modular Off-Axis Fiber Optic Solar Concentrator, uses novel embodiments of an off-axis aspheric focusing system to achieve significant advantages over existing methods for collecting, concentrating, and distributing solar energy via optical fibers. These advantages include improved fill factor and scalability, lower physical profile and wind loading, improved optical efficiency, and lower manufacturing costs when compared to other fiber coupled solar distribution systems.

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