



## FUSION-DRIVEN SUBCRITICAL MINOR ACTINIDE TRANSMUTER

**WARF: P220315US02**

Inventors: Ben Lindley, Cary Forest, Matthew Nyberg, Tim Bohm, Joshua Ruegsegger, Connor Moreno, Paul Wilson

### The Invention

UW-Madison researchers have developed an apparatus for transmutation of minor actinides using neutrons from an axisymmetric mirror fusion system. The separate neutron source allows simplified subcritical operation and the axisymmetric mirror fusion system is amenable to a simple outer geometry simplifying integration with a surrounding blanket. Magnetohydrodynamic interaction may be minimized to the use of a molten salt blanket material which can be readily pumped to allow simplified fuel replenishment, tritium extraction, and the like during operation.

### Additional Information

#### For More Information About the Inventors

- [Cary Forest](#)

#### Tech Fields

- [Clean Technology : Energy storage, delivery & resource efficiencies](#)

For current licensing status, please contact Jeanine Burmania at [jeanine@warf.org](mailto:jeanine@warf.org) or 608-960-9846