

THE HAARP PATENTS

The HAARP Patents of Bernard Eastlund, PhD

Assigned to Advanced Power Technologies Inc., Los Angeles, California, and Washington, DC:

- **US Patent 4686605: *Method and apparatus for altering a region in the Earth's atmosphere, ionosphere, and/or magnetosphere.*** Issued Aug. 11, 1987, filed Jan. 10, 1985
- **US Patent 5038664: *Method for producing a shell of relativistic particles at an altitude above the Earth's surface.*** Issued Aug. 13, 1991, filed Jan. 10, 1985
- **US Patent 4712155: *Method and apparatus for creating an artificial electron cyclotron heating region of plasma.*** Issued Dec. 8, 1987, filed Jan. 28, 1985
- **US Patent 5068669: *Power beaming system.*** Issued Nov. 26, 1991, filed Sept. 1, 1988
- **US Patent 5218374: *Power beaming system with printer circuit radiating elements having resonating cavities.*** Issued June 8, 1993, filed Oct. 10, 1989
- **US Patent 5293176: *Folded cross grid dipole antenna element.*** Issued March 8, 1994, filed Nov. 18, 1991
- **US Patent 5202689: *Lightweight focusing reflector for space.*** Issued April 13, 1993, filed Aug 23, 1991
- **US Patent 5041834: *Artificial ionospheric mirror composed of a plasma layer which can be tilted.*** Issued Aug. 20, 1991, filed May 17, 1990
- **US Patent 4999637: *Creation of artificial ionization clouds above the Earth.*** Issued March 12, 1991, filed May 14, 1987
- **US Patent 4954709: *High resolution directional gamma ray detector.*** Issued Sept. 4, 1990, filed Aug. 16, 1989
- **US Patent 4817495: *Defense system for discriminating between objects in space.*** Issued April 4, 1989, filed July 7, 1986
- **US Patent 4873928: *Nuclear-sized explosions without radiation.*** Issued Act. 17, 1989, filed June 15, 1987