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to one each of said second means, said third means being disposed within a thermal barrier said thermal barrier separating said first and second means.

- b. a second stage for directly converting electrical energy to pump thermal energy comprising:
  - 1. at least one first means for directly converting D.C. current into A.C. voltage fluctuations wherein said first means of said second stage is exposed to input thermal energy from said second means of said first stage and wherein said first means of said second stage is supplied with input D.C. power from power source external to said second stage and wherein said input D.C. power to said second stage is larger than said output D.C. power from said first stage,

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- 2. at least one equal number of second means as said first means of second stage for converting said electrical voltage fluctuations to thermal energy at a higher temperature than said input thermal energy from said external source to said first means of said first stage,
- 3. at least an equal number of third means as each of said first or second means, said third means electrically coupling one each of said first means to one each of said second means, said third means being disposed within a thermal barrier said thermal barrier separating said first and second means, whereby input heat is pumped to higher temperature by the device.

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