



MECHANICAL DEPARTMENT

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Internal Guide:- Biren desai

,External Guide :-

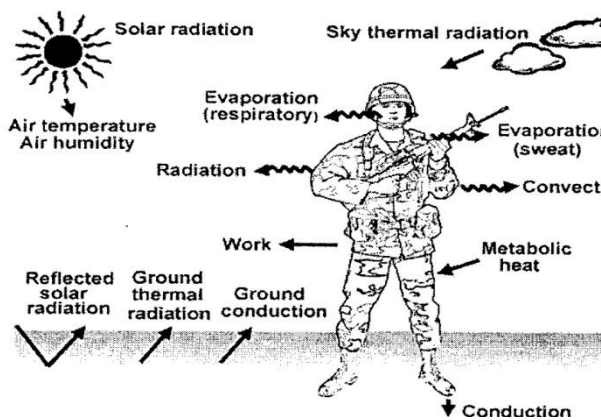
Project Title:- A Heat-Exchanger Apparatus for Reducing the Effect of Sun Stroke

ABSTRACT :-

Due to the effects of greenhouse gases, the annual range of temperature is rising day by day all over the world, and in summer season or hot climate conditions, and in conditions of expose to direct sunlight, same thing happens. Due to which, all the field work personnel, especially soldiers, face problems of sun stroke, and other severe problems. The main idea of project is to create a device with use of Heat-Exchanger, which uses wearable cloth to maintain the body temperature that can be used portably. This device will help working of soldiers and other on field workers to work hassle free. This device makes use of water circulated jacket to keep the body temperature constant.

Application

- 1. Athletes use the body cooling jacket to pre-cool before events.
2. Used by people with Multiple Sclerosis or Hypohidrotic ectodermal dysplasia.
3. Used for working animals, especially horses and dogs.
4. Keeps workers cool when wearing Hazardous Materials suits and other protective clothing, as well as for workers in high temperature environments (i.e. steel mills, welding).
5. Used for fitness and weight loss (by activating BAT tissues that burn calories).
6. In Medical and Therapeutic field to soothe and comfort the patient.
7. For military when getting ready for patrol, convoy duty, bridge build, or other military operation in the desert to stay focused on the task, and avoid the dangers of heat stress.



Approximation of cost = 1000 to 1500

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