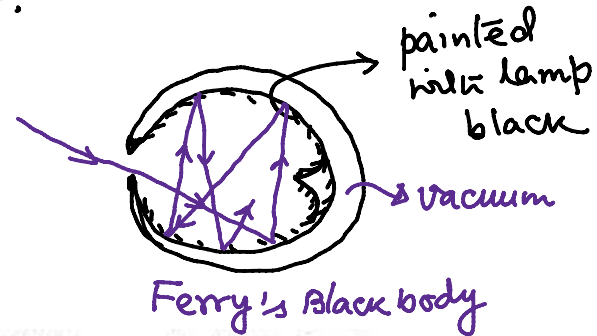


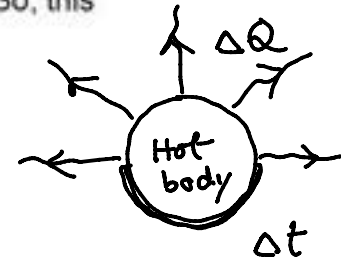
radiation that is incident on it, is called a perfect black body".



**FERRY's Black Body:** It is a double-walled evacuated spherical cavity whose inner wall is painted with lamp black. The space between the walls is evacuated to prevent loss of heat as conduction or convection. There is a fine hole in it. The entire radiations incident on this hole are absorbed by the body. So, this hole acts as the black body.

Total Emissive Power (Radiant Power)

$$E = \frac{\Delta Q}{A \cdot \Delta t} \quad \text{--- (4)}$$



Total heat radiated by a body per unit