



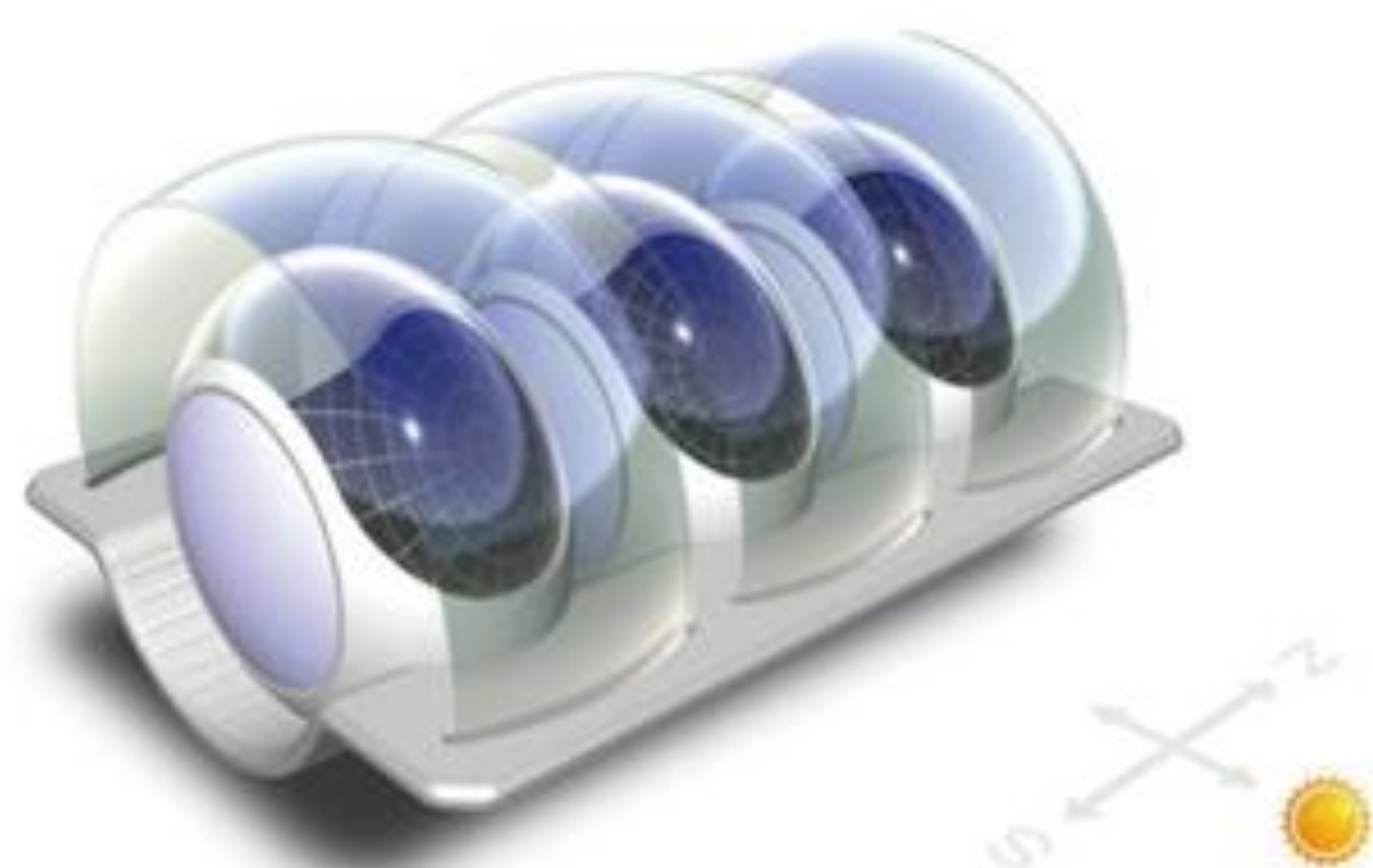
太陽能收集器_繭

發明人:廖重賓

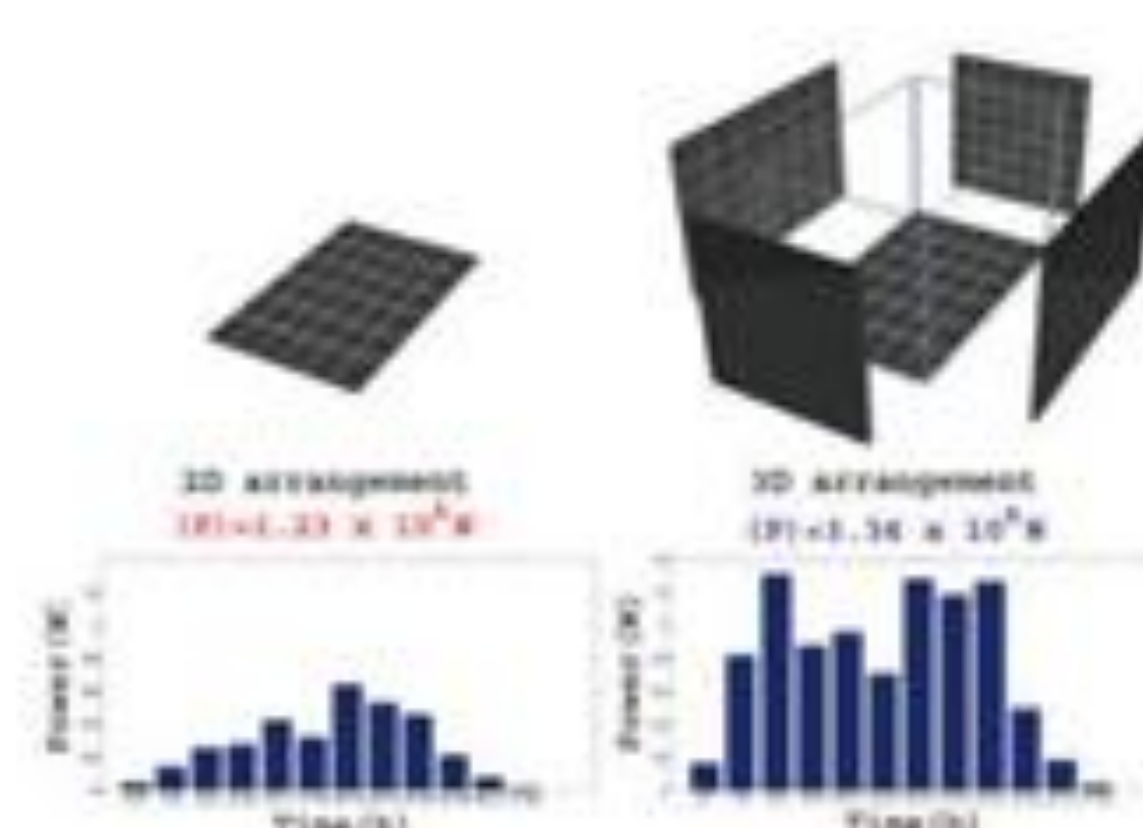
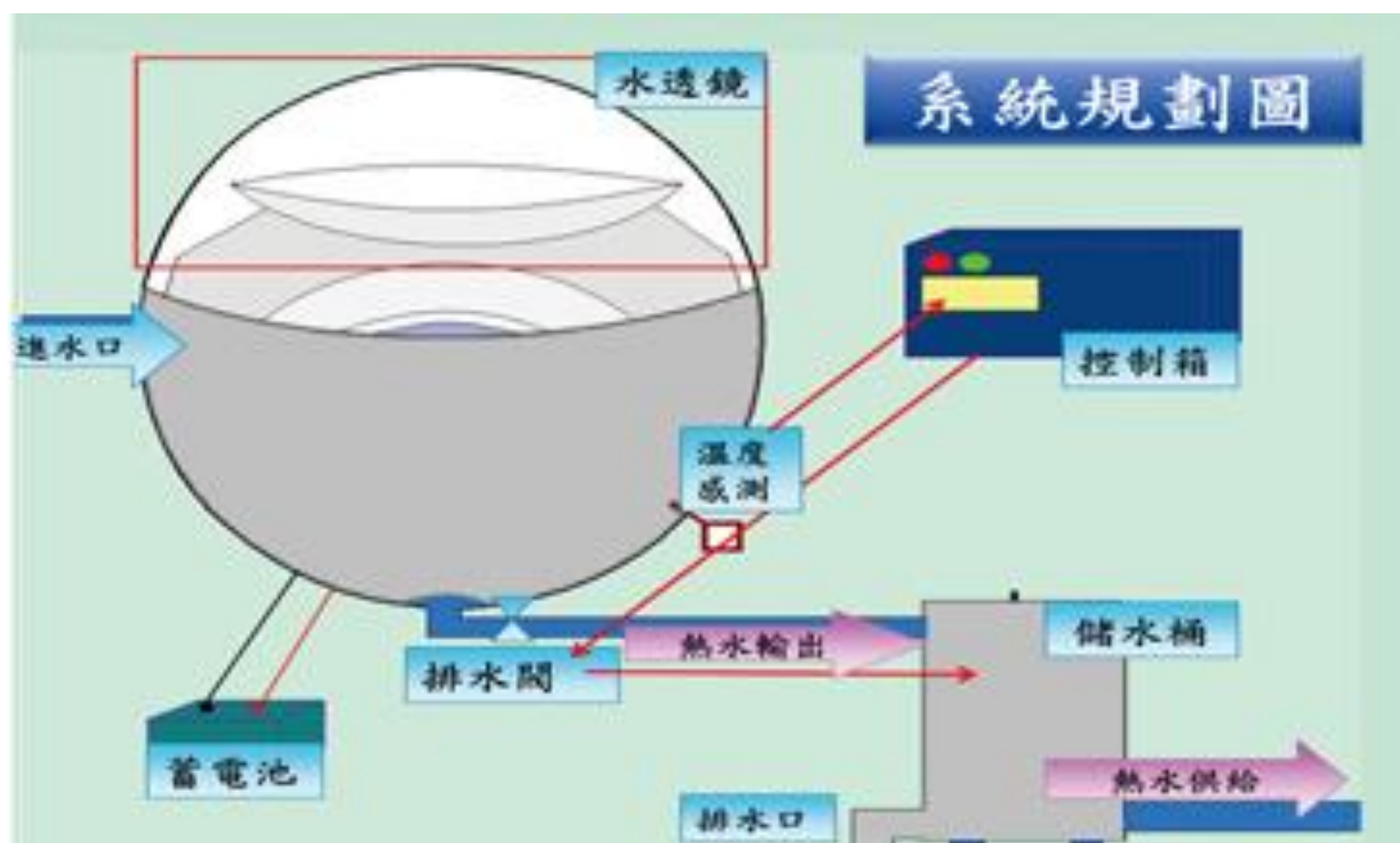
技術內容

本項產品為奧博先進科技整合有限公司 (ARBL) 在國立虎尾科技大學育成中心經由廖重賓教授輔導下開發成功。本創作係為一種使用時可接收光能，並將光能轉換成電能之太陽能充電器。其充分利用相連之數個立體橢圓球之反射恆通過兩焦點之一的特性，有效的將進入腔體的陽光完全轉換為熱與電。預計其將成為小而美、輕盈之重要民生能源設備。

技術圖片



The concept of this design is to save space and partition from traditional 2-D solar panel, which can elevate 73% efficiency of power generation in the same square.



According to the principle of light reflection, we can find out below conclusion through simple experiment. If we align solar panel in 3-D arrangement at the same projection area, we would get higher efficiency of power generation than 2-D.



If we put solar panel align in 3-D into the sphere, and guide the light into the sphere through convex, the light will repeatedly reflect till all the energy absorbed by solar panel.

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