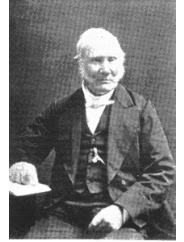
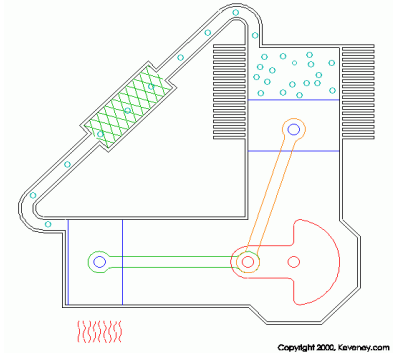
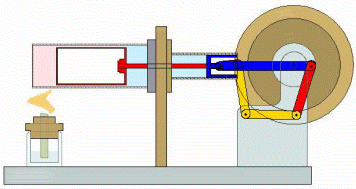
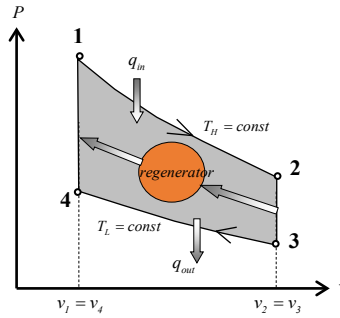
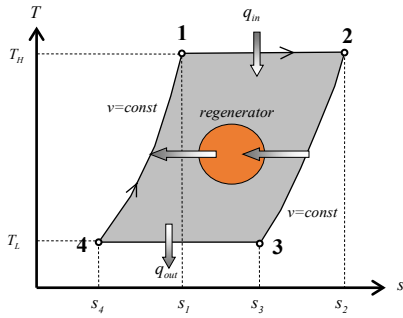


**STIRLING CYCLE** External combustion engine

<https://www.stirlingengine.com/>



Reverend Robert Stirling (1790-1878)



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Thermal efficiency of Carnot Stirling Ericsson cycles

$$\eta_{th} = 1 - \frac{T_L}{T_H}$$

**ERICSSON CYCLE** External combustion engine

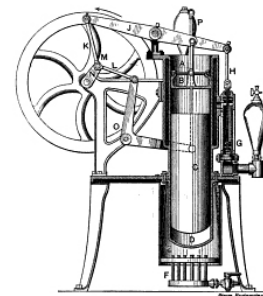
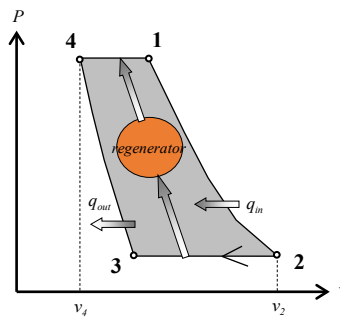
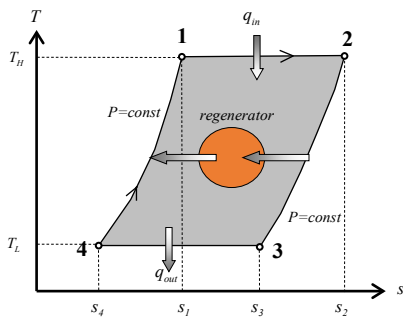
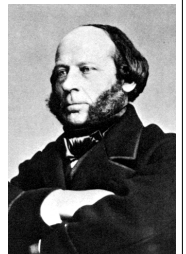


FIG. 1. THE ERICSSON HOT-AIR PUMPING ENGINE.



John Ericsson (1803-1889)

**Watering the Herds**

WITH the fencing of the ranges has come the need for an artificial water supply upon the great stock farms of the West. That cattle may thrive and fatten for the market, it is absolutely essential that this supply be both constant and abundant. The picture shows a typical scene upon many of the largest ranches, where the HOT AIR PUMP is delivering its supply into the storage tank, whence it is drawn off daily as required, in any volume up to 100,000 gallons. No driving of the herds to some distant river is required, thus much expense is saved and the cattle drink quickly, as nature dictates, at an ever ready and abundant supply. Descriptive Catalogue C1 sent free on application.

**Rider-Ericsson Engine Co.**

Remember the Hot Air Pump in your next purchase. It is the most reliable and efficient of all artificial water supply systems.

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