

## Agricultural Tools: Household Sun-heated Cooker

第 2

### 家庭太陽能灶

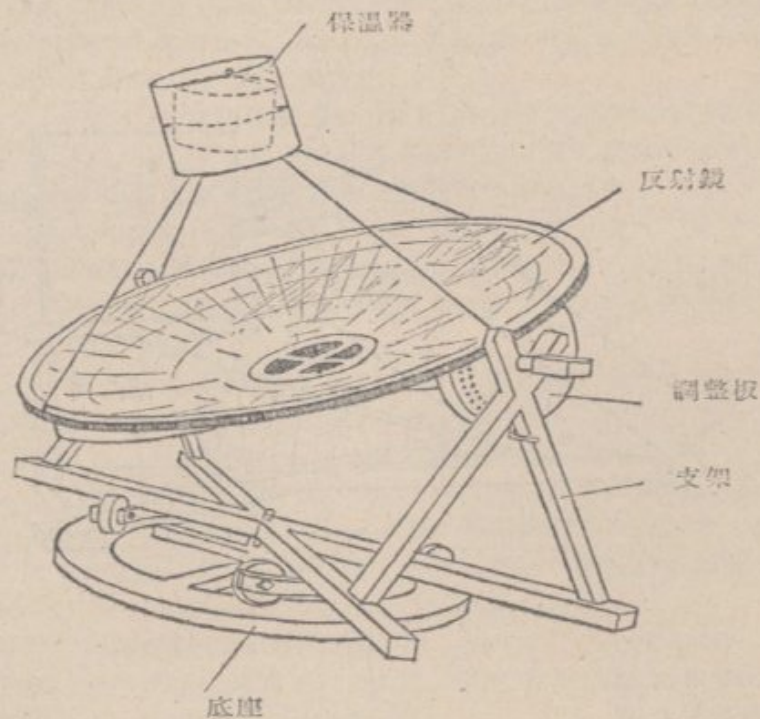
制 造 者：甘肅省平涼太陽能器械廠。

用途和特点：可供4—5人的家庭燒水煮飯用。它既能節省燃料，清潔、方便，而且價格低廉（每部102元）。

性 能：有太陽時，煮沸3.5公斤冷水，只需25—30分鐘

構造和規格：太陽灶由凹面反射鏡、保溫器及支架三部分組成。凹面反射鏡直徑1.5公尺，反射鏡的骨架由木料制成，在骨架上面嵌裝若干小塊玻璃平面鏡，構成凹面反射鏡。在反射鏡背面，橫貫中央有一轉動軸，軸的兩端置于支架上。在轉動軸的一側裝設一調整板，板上有小孔，用以調整反射鏡與地面的角度。支架下部有四個滾輪，可繞底座的中心軸（與地面垂直）旋轉。借助調整板與滾輪的作用，可以調整反射鏡角度，使反射鏡正對太陽。支架與底座都是木製。保溫器由四根6公厘粗的元鐵所支撐，保溫器的四周為鐵皮制成，在兩層鐵皮中間填入石棉以保持熱量，煮飯沸水時，即將鍋具置于保溫器內。保溫器處的聚光溫度為攝氏75—90度，聚光處陽光光綫直徑為15公分。

使用 方法：將凹面反射鏡放置於有陽光處，並調整其角度，使經常與太陽光成垂直，以盡量接收陽光。然後將鍋具，放入保溫器。



TITLE

Household sun-heated cooker (jiating taiyangnengzao 家庭太阳能灶)

DATE

1958

CREATOR

Unknown

PUBLISHER

Kexue puji chubanshe

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DESCRIPTION

This cooker—originating from Gansu Province—is heated by sun-light, making use of a concave glass mirror of a diameter of 1.5 meters that reflects the sun-light. The cooking pot is made from iron, while the wooden construction can be adjusted to the angle of the sun rays. It is described as a clean and economic way for cooking water and rice without requiring fire wood. Construction costs are 120 Yuan RMB. Suitable for a family of 4 to 5 persons it is said to boil three litres of cold water within 25-30 minutes.

Source: 'No. 2' in Quanguo nongju zhanlanhui (ed.), *Recommended exhibits of the National Exhibition of Agricultural Tools—Fixed Propulsion Machinery on the Countryside* (Quanguo nongju zhanlanhui – tujian zhanpin – nongcun guding dongli jixie 全国农具展览会 - 推荐展品 - 农村固定动力机械) (Beijing: Kexue puji chubanshe, 1958).