Solar refrigerator for the production of ice

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Energias renovables Renewable energies

Description

This is a system of intermittent cooling that produces ice using solar energy as the only source of power supply and operates with a mixture of lithium nitrate-ammonia (NH₃-LiNO₃). Due to their physicochemical characteristics, the system does not need a rectification process as required by an ammonia-water mixture. It requires fewer components and uses more efficiently the heat supplied.

Application

This device works like a conventional refrigerator, cooling and producing ice. However it does not pollute and saves energy.

Stage of development

Conceptual model

IP status

Patent in Mexico No. 314,565

Market potential

In 2013, the Mexican production value of commercial and industrial refrigerators was approximately \$ 7,000 million with over 500,000 units sold.

Transferring conditions

- ✓ Technological development agreement (optional).
- Licensing (may include front payment and royalties)



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