

Title (en)

THERMAL ENERGY STORAGE SYSTEM USING COMPRESSED AIR ENERGY AND/OR CHILLED WATER FROM DESALINATION PROCESSES

Title (de)

WÄRMEENERGIESPEICHERSYSTEM MIT DRUCKLUFTENERGIE UND/ODER GEKÜHLTEM WASSER AUS EINEM ENTSALZUNGSVERFAHREN

Title (fr)

SYSTÈME DE STOCKAGE D'ÉNERGIE THERMIQUE UTILISANT L'ÉNERGIE DE L'AIR COMPRIMÉ ET/OU DE L'EAU REFROIDI PROVENANT DE PROCESSUS DE DÉSALINISATION

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Application

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Abstract (en)

[origin: WO2008051427A2] The invention relates to a universal system for producing cost effective energy particularly for cooling purposes. In one embodiment, wind turbines are used to generate electricity and compressed air energy, wherein the compressed air energy is used to co-generate electricity and chilled air. The chilled air is then used to chill water in either a mixing chamber, or a desalination system, wherein the chilled water is stored in a separation tank, wherein it can later be used to provide cooling for an air conditioning system for a facility. When desalination is used, the system produces chilled fresh drinking water which can be used for air conditioning, and then used as fresh drinking water. Any exhaust chilled air can be used directly for air conditioning.

IPC 8 full level

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