

Title (en)

AN IMPROVED METHOD OF TRANSPORTING AND STORING WIND GENERATED ENERGY USING A PIPELINE

Title (de)

VERBESSERTES VERFAHREN ZUR ÜBERTRAGUNG UND SPEICHERUNG VON DURCH WIND ERZEUGTER ENERGIE ÜBER EINE ROHRLEITUNG

Title (fr)

PROCÉDÉ AMÉLIORÉ POUR TRANSPORTER ET STOCKER L'ÉNERGIE ÉOLIENNE AU MOYEN D'UN PIPELINE

Publication

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Application

EP 07762970 A 20070131

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- US 40773306 A 20060420
- US 83423206 P 20060728

Abstract (en)

[origin: WO2007089872A2] The invention relates to a method of storing and transporting wind generated power in the form of compressed air energy, via a pipeline, from a location where wind conditions are ideal, to a facility or community where energy is needed. The method preferably comprises using at least one wind turbine to drive a compressor to compress air into storage, wherein the size and length of the pipeline can be adapted to reduce the pressure losses that are experienced along the length of the pipeline. The pipeline can be located on railroad ties, or on the desert floor, or can be extended along paths where existing right of ways are provided. The facility or community using the energy can use energy in the form of electricity, or to drive pneumatic tools or equipment, or to generate chilled air as a by-product, which can be used for refrigeration, air conditioning or desalination. A utility or grid can be provided to generate compressed air energy when the wind is not blowing, wherein compressed air energy can be produced and stored during low demand periods, and used during high demand periods.

IPC 8 full level

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Citation (search report)

- [XII] US 4829196 A 19890509 - BRONICKI LUCIEN Y [IL], et al
- See references of WO 2007089872A2

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