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MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ,  
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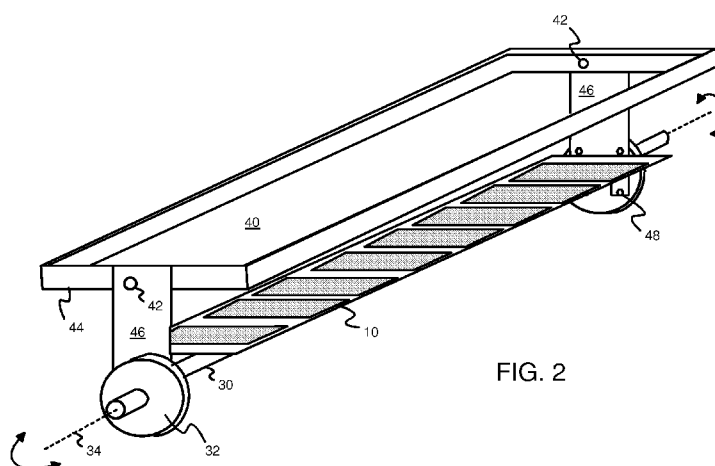
(54) Title: INTEGRATED ELECTRICAL/THERMAL SOLAR SYSTEM WITH TRACKING AXIS ALONG THERMAL PIPE  
CENTER -LINE

FIG. 2

(57) Abstract: An integrated thermal/electric solar system has a water pipe that fits into a heat - transfer plate that supports the photovoltaic (PV) panel. A lens frame supports a lens (in particular a fresnel lens) above the PV panel to concentrate sunlight. The lens frame is connected to a lens riser frame that allow rotation in the wind, allowing the lens frame to act as a weather vane and point downwind to reduce wind pressure and damage to the lens frame. Wheels around the water pipe roll in a track during tracking to follow sun movements. The lens riser frame is attached to the wheels. The PV panel, lens, lens frame, and lens riser frame all rotate as a unit around the centerline of the water pipe. Both electric and thermal energy from the sun are captured as the water from the water pipe can pre-heat a domestic hot-water supply.

# INTERNATIONAL SEARCH REPORT

International application No  
PCT/IB2010/051166

## A. CLASSIFICATION OF SUBJECT MATTER

INV. F24J2/08 F24J2/24 H01L31/058 F24J2/54  
ADD.

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
F24J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EP0-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

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Further documents are listed in the continuation of Box C.



See patent family annex.

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

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Information on patent family members

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