

Title (en)
SOLAR POWERED ELECTRICAL GENERATING SYSTEM

Title (de)
SOLARBETRIEBENES ELEKTRIZITÄTSERZEUGUNGSSYSTEM

Title (fr)
SYSTEME DE GENERATION ELECTRIQUE A ENERGIE SOLAIRE

Publication
EP 1091862 A1 20010418 (EN)

Application
EP 98933031 A 19980702

Priority
US 9813651 W 19980702

Abstract (en)
[origin: CA2335491A1] A solar powered electrical generating system (10) includes a continuous hydraulic circuit (12) carrying a liquid (14) therethrough. A boiler (16) is fluidly connected to a first side of the continuous hydraulic circuit (12). A facility (18) is for heating the liquid (14) within the boiler (16). A condenser (20) is fluidly connected to a second side of the continuous hydraulic circuit (12). A facility (22) is for cooling the liquid (14) within the condenser (20). A hydraulic motor (24) is fluidly connected into a flow line of the continuous hydraulic circuit (12) between a lower exit port of the boiler (16) and an upper entrance port of the condenser (20). The liquid (14) when heated in the boiler (16) will flow from the boiler (16) to the condenser (20) to operate the hydraulic motor (24). A recirculation pump (26) is fluidly connected into a recirculation line of the continuous hydraulic circuit (12) between a lower exit port of the condenser (20) and an entrance port of the boiler (16). The liquid (16) when cooled in the condenser (20) will flow back to the boiler (16). A check valve (28) is in the recirculation line of the continuous hydraulic circuit (12). An electric generator (30) is provided. A structure (32) is for coupling the electric generator (30) to the hydraulic motor (24), so that the hydraulic motor (24) will drive the electric generator (30) to produce electricity.

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