

Technology Offer

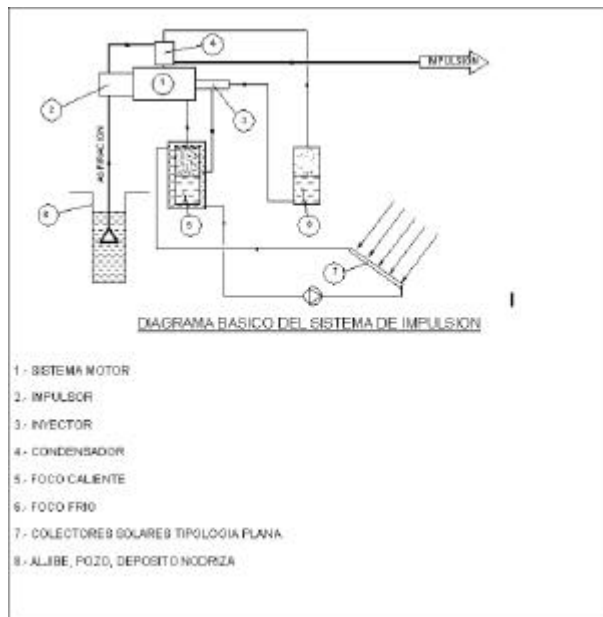
Title: DRIVE GIVES FLOWS BY MEANS OF SOLAR POWER THERMAL (Low temp.) (Ref: 08 ES 28G1 01DZ)

Abstract:

An individual inventor specialist in Thermal Solar power located in Madrid (Spain), has developed a novel alternative of drive. The system assures an energetic independence (fossil, electricity) in sunny zones like the south half of Spain and similar areas of the planet. Actually, the system is in a pre-industrial phase of development and is looking for a SME for further development, manufacture and marketing.

Description:

The system is based on a thermodynamic process that allows the drive of fluids across the thermal energy of the Sun to (60/70°C), caught by solar collectors of flat typology, who has been conceived in order to obtain notable advantages with regard to other systems of drive, which use the energy of the Sun, the principle is based on a motive fluid on steam condition, with low boiling-point submitted to the temperature generated by the Sun, on the warm area and the temperature of the environment on the cold area, the typology of the mechanical system of drive is of positive displacement.



Innovations and advantages of the offer

Actually, solar thermal collectors exclusively use for obtaining warm water, in this case the energy produced by the collectors, is directly transformed in work in order to drive the compressor of the heat bomb or to stimulate waters to high pressure. Obtaining cold means a great step, since it displaces substantially to the solar systems that use absorption processes, by duplicating the performance. The desalt sea waters process means a process of osmosis, on arranging the high pressure system to drive membranes.

For example, to stimulate 3.500 litros/hour of water to 5 bar of pressure.

The consumption of conventional energy (fossil / electricity) used, she would be equivalent to (0,25 liters of gasoil/hour).

With solar power the unit of captation would be constituted by (5 m² of thermal collectors).

Current and Potential Domain of Application

intensive Agriculturalist, Ranching, Poultry, Hotels and Home, water transportation, irrigations, desalt of waters, enclosures food refrigeration.

Contact Details

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