

Title (en)

Cavitation thermogenerator and method for heat generation by the caviation thermogenerator

Title (de)

Kavitationswärmeerzeuger und Verfahren zur Wärmeerzeugung anhand des Kavitationswärmerzeugers

Title (fr)

Générateur thermique à cavitation et procédé de génération de chaleur par le générateur thermique à cavitation

Publication

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Application

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Abstract (en)

A cavitation thermogenerator is proposed providing heat generation by creation in a flow of liquid of zones of lowered and raised pressure and moving of a mixture of liquid with the cavitation bubbles formed in the zone of lowered pressure, from the zone of lowered pressure into the zone of raised pressure. The cavitation thermogenerator comprises a coaxially located hollow housing (1) having a bottom (2), a flow twisting means (3) with a cylindrical internal surface, a nozzle (4) and a braking element. The flow twisting (3) means is located between the nozzle (4) and the housing (1), and internal surface of the flow twisting means (3) forms a uniform cavity with the internal surface of a housing (1). A through aperture (5) is formed in the housing bottom (2) at the axis thereof, and the braking element it is formed by a face part of the nozzle (4) adjoining to the flow twisting means (3) which input aperture (5) has a smaller diameter than internal diameter of said cavity. The thermogenerator is placed in a tank (11) with a liquid medium (water) which has a function of a heat-carrier. By means of the pump (6) the liquid moves from the tank (11) into the thermogenerator flow twisting means (3) providing functioning thereof.

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