

Title (en)

METHOD FOR OPERATING AN INFRARED RADIATOR ELEMENT AND USE THEREOF

Title (de)

VERFAHREN ZUM BETREIBEN EINES INFRAROTSTRAHLERELEMENTS SOWIE VERWENDUNG

Title (fr)

PROCEDE D'EXPLOITATION D'UN ELEMENT A RAYONS INFRAROUGES ET UTILISATION CORRESPONDANTE

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Application

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Abstract (en)

[origin: WO2005069687A1] The invention concerns a method for operating an infrared radiator element comprising: at least one heating tube made of quartz glass; an electric heat conductor, which serves as a radiation source and which is placed inside the at least one heating tube, the at least one heating tube having, at both ends thereof, a gas-tight current feed-through for electrically connecting the heat conductor, and; a cooling tube, which is made of quartz glass and which surrounds the at least one heating tube. A cooling channel for a liquid coolant is formed between the at least one heating tube and the cooling tube. A liquid fluorocarbon, which serves as the coolant for the infrared radiator element, is guided through the cooling channel. This fluorocarbon is solely synthesized from the following chemical elements: fluorine, carbon and oxygen. The invention also concerns the use of a liquid fluorocarbon as a coolant for an infrared radiator element.

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