

Title (en)

CRYOGENIC COOLER FOR A RADIATION DETECTOR, PARTICULARLY IN A SPACECRAFT

Title (de)

KRYOKÜHLER FÜR EINEN STRAHLUNGSDETEKTOR, INSBESONDERE IN EINEM RAUMFAHRZEUG

Title (fr)

REFROIDISSEUR CRYOGÉNIQUE POUR DÉTECTEUR DE RAYONNEMENT NOTAMMENT DANS UN ENGIN SPATIAL

Publication

EP 3990839 A1 20220504 (FR)

Application

EP 20747050 A 20200626

Priority

- FR 1906948 A 20190626
- FR 2020051123 W 20200626

Abstract (en)

[origin: WO2020260842A1] The invention mainly relates to a cryogenic cooler comprising a cold region, a heat-transfer fluid circuit, the cold region being positioned in the circuit, an application heat exchanger configured to exchange calories with a device to be cooled, characterised in that the cooler comprises at least one passive non-return valve fluidly connected to the cold region, the heat exchanger comprising at least one first fluid inlet positioned downstream of the non-return valve in the flow direction of the heat-transfer fluid, the heat-transfer fluid circulating from the end of the cold region.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2020260842A1

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