

Title (en)
Conditioning system of components operating at cryogenic temperature

Title (de)
Konditionierungsanordnung von bei Tiefsttemperatur arbeitenden Bauteilen

Title (fr)
Système de conditionnement de composants fonctionnant à température cryogénique

Publication
EP 0860667 B1 20021023 (FR)

Application
EP 98400374 A 19980217

Priority
FR 9702083 A 19970221

Abstract (en)
[origin: EP0860667A1] The system includes providing a periodically repetitive cycle involving alternate phases of compression and reduction in pressure in a cooler of the pulsated type, of which the work gas circuit incorporates a pulsation tube extending between a cold exchanger (16) in thermal contact with the component to be cooled and a heat exchanger (14) for heat rejection to the exterior. The cooler (30) incorporates two work gas circuits which are similar, operating with opposing phases, of which the pulsation tubes are fitted within the same block of thermally insulating material supporting the two exchangers. A recovery device (13) is provided for thermal transfer in counterflow between the two flows of gas feeding the pulsation tubes belonging respectively to the two work gas circuit.

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IPC 8 full level
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CPC (source: EP US)
F04B 35/045 (2013.01 - EP); **F04B 45/047** (2013.01 - EP US); **F25B 9/145** (2013.01 - EP); **F25B 2309/1422** (2013.01 - EP)

Cited by
WO2016044322A1; US9559517B2; US10041747B2; US10332697B2; US10429139B2

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