

Title (en)
CRYOGENIC DEVICE WITH COMPACT EXCHANGER

Title (de)
KRYOGENE VORRICHTUNG MIT KOMPAKTEM WÄRMETAUSCHER

Title (fr)
DISPOSITIF CRYOGENIQUE A ECHANGEUR COMPACT

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Application
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Abstract (en)
[origin: WO2017212148A1] The invention relates to a cold-generating device that uses the "Joule-Thomson" expansion principle. It comprises a heat exchanger inside which a high-pressure and a low-pressure fluid circulate in countercurrent. The heat exchanger consists of a stack of pellets (5) made of a porous material, particularly sintered material, forming a cylindrical mandrel at the periphery of which, and in contact with which, a capillary (10) is wound inside which the high-pressure fluid circulates, wherein the low-pressure fluid circulates in countercurrent inside the porous mandrel formed in this way.

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