

Title (en)

MINIATURE JOULE-THOMSON EXPANSION REFRIGERATOR, AND METHOD OF MANUFACTURING IT

Publication

EP 0286462 B1 19910918 (FR)

Application

EP 88400485 A 19880302

Priority

FR 8703027 A 19870306

Abstract (en)

[origin: EP0286462A1] This refrigerator (2) comprises an internal helical tube (11) soldered to a mandrel (8) and an external helical tube (12) soldered in a cylindrical envelope (9) which surrounds the mandrel, the turns of the two tubes penetrating each other. Application in cooling of infrared detectors. <IMAGE>

IPC 1-7

B21D 53/06; F25B 9/02; F28D 7/02; F28D 7/04

IPC 8 full level

B21D 53/06 (2006.01); **F25B 9/02** (2006.01); **F28D 7/02** (2006.01); **F28D 7/04** (2006.01)

CPC (source: EP)

B21D 53/06 (2013.01); **F25B 9/02** (2013.01); **F28D 7/024** (2013.01); **F28D 7/04** (2013.01)

Cited by

FR2749651A1; EP0494299B1

Designated contracting state (EPC)

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FR 2611870 A1 19880909; FR 2611870 B1 19890609; DE 3864878 D1 19911024; EP 0286462 A1 19881012; EP 0286462 B1 19910918

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