

Title (en)  
PHASE SEPARATOR FOR HELIUM II

Publication  
**EP 0160840 A3 19861015 (DE)**

Application  
**EP 85104020 A 19850403**

Priority  
DE 3417055 A 19840509

Abstract (en)  
[origin: US4607490A] A helium II phase separator reproducible in manufacture utilizes a thermo-mechanical effect and comprises a plurality of adjacent passage gaps of identical width which are provided in the walls of a cavity dipped into a bath of liquid helium, so that the gaseous helium can be taken off.

IPC 1-7  
**F17C 13/00**

IPC 8 full level  
**B01D 19/00** (2006.01); **F17C 13/00** (2006.01); **F25J 3/00** (2006.01)

CPC (source: EP US)  
**F17C 13/00** (2013.01 - EP US); **F17C 2203/0629** (2013.01 - EP US); **F17C 2221/017** (2013.01 - EP US); **F17C 2223/0161** (2013.01 - EP US); **F17C 2265/015** (2013.01 - EP US)

Citation (search report)

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- [Y] DE 3148426 A1 19830623 - MESSERSCHMITT BOELKOW BLOHM [DE]
- [A] FR 2500908 A1 19820903 - EUROP AGENCE SPATIALE [FR]
- [X] K.D. TIMMERHAUS: "Advances in Cryogenic Engineering", Band 16, Proceedings of the 1970 Cryogenic Engineering Conference, The University of Colorado, Boulder, Colorado, 17. - 19. Juni 1970, Seiten 277-281, Plenum Press, New York-London 1971; P.M. SELZER et al.: "A superfluid plug for space"
- [A] K.D. TIMMERHAUS et al.: "Advances in Cryogenic Engineering", Band 25, Proceedings of the 1979 Cryogenic Engineering Conference, 21. - 24. August 1979, Madison, Wisconsin, US, Seiten 783-790, Plenum Press, New York-London 1980; H.D. DENNER et al.: "Mechanism of an active phase separator for space applications"
- [A] CRYOGENICS, Band 18, Nr. 3, März 1978, Seiten 166-170, Guildford, Surrey, GB; H.D. DENNER et al.: "Flow of helium II through porous plugs"

Designated contracting state (EPC)  
DE FR GB NL

DOCDB simple family (publication)  
**EP 0160840 A2 19851113; EP 0160840 A3 19861015; EP 0160840 B1 19900905**; DE 3417055 A1 19851114; DE 3417055 C2 19860507; DE 3579492 D1 19901011; JP S60244308 A 19851204; US 4607490 A 19860826

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**EP 85104020 A 19850403**; DE 3417055 A 19840509; DE 3579492 T 19850403; JP 9682185 A 19850509; US 73110885 A 19850506