

Title (en)

Method for production of liquid carbon dioxide, and application for the production of supercritical carbon dioxide

Title (de)

Verfahren zur Herstellung von flüssigem Carbondioxyde, und Benutzung zur Herstellung von superkritischem Carbondioxyde

Title (fr)

Procédé de production de dioxyde de carbone liquide et application à la production de dioxyde de carbone supercritique

Publication

EP 1605198 A3 20080123 (FR)

Application

EP 05300449 A 20050603

Priority

FR 0406335 A 20040611

Abstract (en)

[origin: EP1605198A2] Production of pure liquid carbon dioxide (CO₂) at a stable pressure, at a point of use (21) at the end of a feed line (20) involves controlling and stabilizing the pressure of CO₂ in a container (10) by controlling the temperature; extracting CO₂ from the liquid phase in the container into the feed line; and cooling the feed line under a stabilized pressure to a temperature such that the CO₂ temperature at the application point is less than the b.pt. of the CO₂ at the stabilized pressure.

IPC 8 full level

F17C 7/02 (2006.01); **C01B 32/50** (2017.01); **F17C 9/00** (2006.01); **F17C 13/02** (2006.01)

CPC (source: EP)

F17C 7/02 (2013.01); **F17C 9/00** (2013.01); **F17C 13/025** (2013.01); **F17C 2221/013** (2013.01); **F17C 2223/0153** (2013.01); **F17C 2223/036** (2013.01); **F17C 2225/0115** (2013.01); **F17C 2225/047** (2013.01); **F17C 2227/0337** (2013.01); **F17C 2250/0626** (2013.01); **F17C 2250/0631** (2013.01)

Citation (search report)

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- [X] FR 2781037 A1 20000114 - MESSER FRANCE [FR]
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- [A] WO 03067144 A2 20030814 - AIR LIQUIDE [FR], et al
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- [A] EP 0501806 A1 19920902 - SUPREX CORP [US]

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR LV MK YU

DOCDB simple family (publication)

EP 1605198 A2 20051214; **EP 1605198 A3 20080123**; FR 2871549 A1 20051216; FR 2871549 B1 20060804

DOCDB simple family (application)

EP 05300449 A 20050603; FR 0406335 A 20040611