

Title (en)

Device and method for supercooling carbon dioxide

Title (de)

Vorrichtung und Verfahren zum Unterkühlen von Kohlendioxid

Title (fr)

Dispositif et procédé de surfusion de dioxyde de carbone

Publication

EP 2863103 A3 20150506 (DE)

Application

EP 14003030 A 20140903

Priority

DE 102013014912 A 20130903

IPC 8 full level

F17C 7/02 (2006.01); **F17C 9/00** (2006.01)

CPC (source: EP)

F25D 3/12 (2013.01); **F17C 2221/013** (2013.01); **F17C 2223/0153** (2013.01); **F17C 2223/035** (2013.01); **F17C 2225/0169** (2013.01); **F17C 2225/035** (2013.01); **F17C 2227/0339** (2013.01); **F17C 2227/0358** (2013.01); **F17C 2227/0374** (2013.01); **F17C 2250/032** (2013.01); **F17C 2250/0439** (2013.01); **F17C 2250/0636** (2013.01); **F25D 3/10** (2013.01)

Citation (search report)

- [IA] EP 1818633 A2 20070815 - MESSER GROUP GMBH [DE]
- [IDA] DE 2929709 A1 19810212 - MESSER GRIESHEIM GMBH
- [XA] FR 2599119 A1 19871127 - AIR LIQUIDE [FR]
- [XA] DE 102011014943 A1 20120927 - AIRBUS OPERATIONS GMBH [DE]
- [A] CA 2128187 A1 19960116 - GROHMANN PAUL [AT]

Cited by

WO2022268244A1; US2016053943A1; EP3928926A1; CN108758333A; DE102021005135A1; DE102021005135B4

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

DE 102013014912 A1 20150305; EP 2863103 A2 20150422; EP 2863103 A3 20150506; EP 2863103 B1 20180801; ES 2690138 T3 20181119; HU E040079 T2 20190228; PL 2863103 T3 20190131

DOCDB simple family (application)

DE 102013014912 A 20130903; EP 14003030 A 20140903; ES 14003030 T 20140903; HU E14003030 A 20140903; PL 14003030 T 20140903