

Title (en)

A method for temperature control of CO<sub>2</sub> as well as metering and filling of CO<sub>2</sub> systems

Title (de)

Verfahren zur Temperaturkontrolle von CO<sub>2</sub> und zur Messung und Füllung von CO<sub>2</sub>-Systemen

Title (fr)

Procédé pour le contrôle de la température du CO<sub>2</sub> ainsi que pour la mesure et le remplissage de systèmes de CO<sub>2</sub>

Publication

**EP 2051030 A3 20100224 (EN)**

Application

**EP 08388037 A 20081014**

Priority

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Abstract (en)

[origin: EP2051030A2] The invention relates to a method for temperature control of CO<sub>2</sub> as well as metering and filling of CO<sub>2</sub> systems by means of a system having a process unit and a filling unit, wherein CO<sub>2</sub> is continuously pumped through a hose (8) from the process unit (1) at a temperature below 31.1 °C and comprising a container (2), a pump (3) and a meter (4), through a circulation valve (6) in the filling unit (5), which comprises a circulation valve (6) and a filling valve (7), and back to the process unit again for cooling, following which the circulation valve (6) is closed and the filling valve (7) is opened, whereby CO<sub>2</sub> is metered by the passage through the meter (4) and is filled into the CO<sub>2</sub> system through the filling valve (7). An alternative method, wherein the process unit (1) additionally comprises a circulation valve (6) and a parallel valve (9), wherein the circulation valve (6) is closed, the parallel valve (9) and the filling valve (7) are opened, and CO<sub>2</sub> is metered and filled into the CO<sub>2</sub> system. Formation of gas is avoided hereby, so that the amount of CO<sub>2</sub> may be metered correctly.

IPC 8 full level

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**F25B 45/00** (2013.01); **F25B 9/008** (2013.01); **F25B 2309/06** (2013.01); **F25B 2345/001** (2013.01)

Citation (search report)

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- [A] "FILLING IN WORKSHOP AND PRODUCTION AGRAMKOW - THE SAFE CHOICE", VDA ALTERNATE REFRIGERANT WINTER MEETING, XX, XX, 13 February 2003 (2003-02-13), pages 1 - 34, XP001172663

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DOCDB simple family (publication)

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