

Title (en)

Dynamic conditioning of gaseous mixtures at high pressures, preferably of mixtures N₂O/O₂

Title (de)

Dynamische Behandlung von Gasgemischungen mit hohen Drücken, insbesondere N₂O/O₂ Mischungen

Title (fr)

Conditionnement en dynamique de mélanges gazeux à pression élevée, en particulier de mélange N₂O/O₂

Publication

EP 1547637 A3 20050713 (FR)

Application

EP 04300773 A 20041109

Priority

FR 0351093 A 20031217

Abstract (en)

[origin: EP1547637A2] Method for preparing gas mixtures (A) of at least two components, i.e. oxygen, nitrogen, helium, carbon dioxide, nitrous oxide and carbon monoxide, in desired proportions. Method for preparing gas mixtures (A) of at least two components, i.e. oxygen, nitrogen, helium, carbon dioxide, nitrous oxide and carbon monoxide, in desired proportions comprises: (a) dynamic premixing, in predetermined proportions, of the components to form a premix at pressure, P₁, not over 200 bar, containing an intermediate content (T_i) of second component that is greater than its final content (T_f); (b) increasing the pressure of the premix by adding more first component; and (c) stopping the addition when the mixture reaches a second pressure P₂ that is above P₁ and greater than 170 bar, and has content of second component T_f. An independent claim is also included for a process for filling gas containers with (A) produced by the new method.

IPC 1-7

A61M 16/12

IPC 8 full level

A61M 16/12 (2006.01); **B01F 23/10** (2022.01); **F17C 5/06** (2006.01)

CPC (source: EP US)

B01F 23/19 (2022.01 - EP US); **B01F 35/88** (2022.01 - EP US); **F17C 2221/03** (2013.01 - EP US); **F17C 2223/0123** (2013.01 - EP US); **F17C 2223/033** (2013.01 - EP US); **F17C 2223/035** (2013.01 - EP US); **F17C 2225/0123** (2013.01 - EP US); **F17C 2225/036** (2013.01 - EP US); **F17C 2265/025** (2013.01 - EP US); **Y10T 137/0318** (2015.04 - EP US)

Citation (search report)

- [A] US 4718462 A 19880112 - FIX ROGER [FR]
- [AD] EP 1174178 A1 20020123 - AIR LIQUIDE SANTE INT [FR], et al

Designated contracting state (EPC)

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

DOCDB simple family (publication)

EP 1547637 A2 20050629; **EP 1547637 A3 20050713**; **EP 1547637 B1 20061227**; AT E349270 T1 20070115; DE 602004003890 D1 20070208; DE 602004003890 T2 20071031; ES 2279318 T3 20070816; FR 2863912 A1 20050624; FR 2863912 B1 20060203; US 2005155643 A1 20050721; US 7267143 B2 20070911

DOCDB simple family (application)

EP 04300773 A 20041109; AT 04300773 T 20041109; DE 602004003890 T 20041109; ES 04300773 T 20041109; FR 0351093 A 20031217; US 1434904 A 20041216