

## Title (en)

METHOD FOR SEPARATING A MIXTURE OF CARBON MONOXIDE, METHANE, HYDROGEN AND NITROGEN BY CRYOGENIC DISTILLATION

## Title (de)

VERFAHREN UND VORRICHTUNG ZUR TRENNUNG EINER MISCHUNG AUS KOHLENMONOXID, METHAN, WASSERSTOFF UND STICKSTOFF DURCH KRYOGENE DESTILLATION

## Title (fr)

PROCÉDÉ DE SÉPARATION D'UN MÉLANGE DE MONOXYDE DE CARBONE, DE MÉTHANE, D'HYDROGÈNE ET D'AZOTE PAR DISTILLATION CRYOGÉNIQUE

## Publication

**EP 2122282 A2 20091125 (FR)**

## Application

**EP 07871946 A 20071214**

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- FR 2007052530 W 20071214
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## Abstract (en)

[origin: WO2008087318A2] The invention relates to a method for separating a mixture comprising at least carbon monoxide, hydrogen, and methane. According to said method, the mixture is separated by a first separating means (C1), at least one liquid fraction of the chamber of the separating means is sent to a product stripper (C2), and at least part of the liquid fraction is sent from the product stripper to a CO/CH<SUB>4</SUB> separating column (C3) in order to produce a methane-enriched liquid flow and a gaseous flow enriched with carbon monoxide. The process is carried out under cold conditions at least partially as a result of a carbon monoxide cycle, said cycle at least partially ensuring the condensation at the top of the CO/CH<SUB>4</SUB> separating column and/or the reboiling in the chamber of the product stripper and/or the reboiling in the chamber of the CO/CH<SUB>4</SUB> separating column and/or the cooling of the mixture for the first separating means.

## IPC 8 full level

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## Citation (search report)

See references of WO 2008087318A2

## Cited by

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## DOCDB simple family (application)

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