

Title (en)
METHOD AND DEVICE FOR SEPARATING A MIXTURE CONTAINING AT LEAST HYDROGEN, NITROGEN AND CARBON MONOXIDE BY CRYOGENIC DISTILLATION

Title (de)
VERFAHREN UND VORRICHTUNG ZUR TRENNUNG EINER MISCHUNG MIT MINDESTENS EINEM WASSERSTOFF, STICKSTOFF UND KOHLENMONOXID DURCH KRYOGENE DESTILLATION

Title (fr)
PROCÉDÉ ET APPAREIL DE SÉPARATION D'UN MÉLANGE COMPRENANT AU MOINS DE L'HYDROGÈNE, DE L'AZOTE ET DU MONOXYDE DE CARBONE PAR DISTILLATION CRYOGÉNIQUE

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Application
EP 07871916 A 20071212

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Abstract (en)
[origin: WO2008078040A2] The invention relates to a method for separating a mixture containing carbon monoxide, nitrogen and hydrogen by cryogenic distillation in a separation means system including a denitrification column (C4) and at least another column, that comprises separating the mixture in order to obtain a fluid enriched with carbon monoxide and containing nitrogen, separating the fluid in the denitrification column, pressurising the carbon monoxide flow from the column system in a compressor (V1, V2) up to a high pressure, a fraction (7) of the carbon monoxide flow being used as a product, expanding a variable amount (57) of the high-pressure carbon monoxide flow cooled in a valve (59) before supplying it to the vat of the denitrification column, and varying the flow expanded in the valve according to the re-boiling needs of the denitrification column

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Citation (examination)
BERNINGER R: "Progress in H₂/CO Low-Temperature Separation", REPORTS ON SCIENCE AND TECHNOLOGY, LINDE AG, vol. 44, 1 January 1988 (1988-01-01), pages 18 - 23, XP009195158, ISSN: 0024-3736

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