

Title (en)

METHOD AND APPARATUS FOR CRYOGENIC SEPARATION OF A MIXTURE CONTAINING AT LEAST CARBON MONOXIDE, HYDROGEN AND NITROGEN

Title (de)

VERFAHREN UND VORRICHTUNG ZUR KRYOGENEN TRENNUNG EINER MISCHUNG MIT MINDESTENS KOHLENSTOFFMONOXID, WASSERSTOFF UND STICKSTOFF

Title (fr)

PROCÉDÉ ET APPAREIL DE SÉPARATION CRYOGENIQUE D'UN MÉLANGE CONTENANT AU MOINS DU MONOXYDE DE CARBONE, DE L'HYDROGÈNE ET DE L'AZOTE

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Application

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Abstract (en)

[origin: WO2015044575A2] The invention relates to an apparatus for cryogenic separation of a mixture of carbon monoxide, hydrogen and nitrogen, including a stripping column (2) and a denitrogenation column (4), a pipe for sending the mixture (13) in liquid form to the head of the stripping column, a pipe for removing a liquid depleted of hydrogen (15, 16) connected to the stripping column, a pipe for removing a gas enriched with hydrogen (14) from the stripping column, means for sending the liquid depleted of hydrogen (16) or a fluid derived from said liquid to the denitrogenation column, a pipe for drawing a liquid (22) enriched with carbon monoxide from the denitrogenation column, a pipe for drawing a gas (21) enriched with nitrogen from the head of the denitrogenation column and means for sending at least one portion of the gas enriched with hydrogen to the denitrogenation column.

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