

Title (en)

METHOD AND DEVICE FOR OBTAINING PRODUCTS FROM SYNTHESIS GAS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR GEWINNUNG VON PRODUKTEN AUS SYNTHESSEGAS

Title (fr)

PROCÉDÉ ET DISPOSITIF D'OBTENTION DE PRODUITS PROVENANT D'UN GAZ DE SYNTHÈSE

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Application

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Abstract (en)

[origin: WO2008064762A2] The invention relates to a method for obtaining a carbon monoxide (37) and a hydrogen product (16) by cryogenically decomposing a feed gas (1) predominantly composed of hydrogen (H₂) and carbon monoxide (CO) in a two-stage condensation process, maximum coldness for the second condensation stage being generated by mixing an H₂-rich fraction (43) with liquid nitrogen (M-N₂) (38, 42). The invention also relates to a device for carrying out said method. At least some (G-N₂) (42) of the M-N₂ is produced from nitrogen (39) that is externally fed to the two-stage condensation process as a gas, by cooling, condensing, and, preferably, supercooling the same within the two-stage condensation process against process flows that are to be heated.

IPC 8 full level

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