

Title (en)
A PROCESS FOR MAKING HIGH CALORIE CITY GAS

Publication
EP 0518269 A3 19930512 (EN)

Application
EP 92109709 A 19920610

Priority
JP 14290391 A 19910614

Abstract (en)
[origin: EP0518269A2] In the process of producing high calorie SNG type city gas from hydrocarbonic crude gas, e.g., butane, propane, naphtha etc., an elementary feed gas is produced by using hydrodesulfurization as a first step, and then secondly further methanizing the product in a column. The hydrodesulfurization uses a nimox catalyst and a zinc oxide adsorbent. The desulfurized feed gas is further methanized on an alumina group carrier supported by nickel to obtain methane-rich gas, i.e. the elementary feed gas in a combined use type column. The necessary hydrogen to be fed into the hydrodesulfurization is obtained from a methanol/water mixture. This hydrogenizing reaction tube is combined within the same column above. Inorganic salt is used as a heat transfer medium heat-sourced in an external furnace and the heat transfer medium temperature branched into two system-flows are controlled by a three-way flow rate control valve simultaneously. The above reaction temperature is about 320$^{\circ}$C.

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C10K 3/00

IPC 8 full level
C10L 3/10 (2006.01); **B01J 23/755** (2006.01); **C10K 3/00** (2006.01)

CPC (source: EP KR)
C10K 3/00 (2013.01 - EP); **C10L 3/00** (2013.01 - KR)

Citation (search report)

- [A] EP 0028835 A1 19810520 - VEG GASINSTITUUT NV [NL]
- [A] DE 2722502 A1 19771208 - BRITISH GAS CORP
- [A] GB 2154600 A 19850911 - BRITISH GAS CORP

Cited by
US6495731B1

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