

Title (en)
METHOD OF DENITROGENATING A CHARGE OF A HYDROCARBON MIXTURE CONSISTING MAINLY OF METHANE AND CONTAINING AT LEAST 2 % MOL NITROGEN

Title (de)
STICKSTOFFENTFERNUNGSVERFAHREN AUS EINEM HAUPTSÄCHLICH METHAN ENTHALTENDEN KOHLENWASSERSTOFFEINSATZGEMISCH MIT MINDESTENS 2 MOL % STICKSTOFF

Title (fr)
PROCEDE DE DEAZOTATION D'UNE CHARGE D'UN MELANGE D'HYDROCARBURES CONSISTANT PRINCIPALEMENT EN METHANE ET RENFERMANT AU MOINS 2 % MOLAIRES D'AZOTE

Publication
EP 0572590 B1 19960904 (FR)

Application
EP 92923851 A 19921022

Priority
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Abstract (en)
[origin: FR2682964A1] The charge of LNG (1) is refrigerated by primary expansion in a turbine (21), direct heat exchange (2) and secondary static expansion (3). The refrigerated charge (4) is fractionated in a denitrogenation column (5) in a gas phase (10) consisting of nitrogen and methane, discharged at the head of the column (5), and into a denitrogenated LNG flow (11) drawn off from the bottom of said column. A first fraction (6) and a second fraction (8) of LNG are taken from the column (5), pass through the heat exchanger (2) to refrigerate the charge (1), and are then reinjected into the column as first (7) and second (9) reboiling fractions. After recovery of its negative calories (13), the gas fraction (10) is compressed (15) to form a flow (20) of combustible gas.

IPC 1-7
F25J 3/02; **F25J 3/08**; **C10L 3/10**

IPC 8 full level
F25J 3/08 (2006.01); **C10L 3/10** (2006.01); **F25J 3/02** (2006.01)

CPC (source: EP US)
C10L 3/10 (2013.01 - EP US); **F25J 3/0209** (2013.01 - EP US); **F25J 3/0233** (2013.01 - EP US); **F25J 3/0257** (2013.01 - EP US); **F25J 2200/02** (2013.01 - EP US); **F25J 2200/04** (2013.01 - EP US); **F25J 2200/70** (2013.01 - EP US); **F25J 2200/74** (2013.01 - EP US); **F25J 2200/76** (2013.01 - EP US); **F25J 2200/78** (2013.01 - EP US); **F25J 2205/04** (2013.01 - EP US); **F25J 2210/06** (2013.01 - EP US); **F25J 2215/04** (2013.01 - EP US); **F25J 2230/60** (2013.01 - EP US); **F25J 2235/60** (2013.01 - EP US); **F25J 2240/30** (2013.01 - EP US); **F25J 2270/42** (2013.01 - EP US)

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