

Title (en)
METHOD FOR INCREASING SELECTIVITY OF PHYSICALLY ACTIVE SOLVENTS DURING ABSORPTION OF GAS COMPONENTS FROM TECHNICAL GASES

Title (de)
VERFAHREN ZUR ERHÖHUNG DER SELEKTIVITÄT VON PHYSIKALISCH WIRKENDEN LÖSUNGS MITTELN BEI EINER ABSORPTION VON GASKOMPONENTEN AUS TECHNISCHEN GASEN

Title (fr)
PROCEDE D'AUGMENTATION DE LA SELECTIVITE DE SOLVANTS A ACTION PHYSIQUE LORS DE L'ABSORPTION DE CONSTITUANTS GAZEUX A PARTIR DE GAZ TECHNIQUES

Publication
EP 1844126 B1 20180321 (DE)

Application
EP 06700913 A 20060112

Priority
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• DE 102005004948 A 20050202

Abstract (en)
[origin: DE102005004948B3] Recovery of hydrocarbon compounds (I), using physically working absorbents, comprises increasing the first pressure of the absorbents; loading the absorbents on the head of a drift column; adjusting an equilibrium in the drift column; heating the hydrocarbon poor and acid gas rich component; drawing-off the hydrocarbon rich and acid gas poor component from recycle gas; and cooling the recycle gas to the temperature of the fed gas. Recovery of hydrocarbon compounds (I), which is absorbed along with the absorption of acid gases from technical gases (e.g. natural gas) by means of physically working absorbents, comprises increasing the first pressure of the absorbents that is drawn-off the absorption arrangement; loading the absorbents on the head of a drift column, which exhibits a sump on digester and one or more side digesters and can be operated under a negligibly higher pressure than the absorption column; adjusting an equilibrium in this drift column in such a manner the acid gas concentration in the absorbent increases and the concentration of (I) decreases in the sump; heating the hydrocarbon poor and acid gas rich component in the sump and the acid gas is supplied to a desorption mechanism; drawing-off the hydrocarbon rich and acid gas poor component from recycle gas at the head of the drift column; and cooling the recycle gas in a recycle gas cooler to the temperature of the fed gas, which is led into the absorption arrangement, and providing either directly in the absorption device or added to the fed gas.

IPC 8 full level
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