

Title (en)
HYDROGENATING A TEMPERATURE SENSITIVE HYDROCARBONACEOUS WASTE STREAM

Publication
EP 0306164 B1 19921014 (EN)

Application
EP 88307448 A 19880811

Priority
US 8495487 A 19870813

Abstract (en)
[origin: EP0306164A1] A temperature-sensitive hydrocarbonaceous waste stream (1) containing a non-distillable component is converted into a hydrogenated distillable hydrocarbonaceous product (16) and a heavy non-distillable product (4) while minimizing thermal degradation of the hydrocarbonaceous stream by (a) contacting the hydrocarbonaceous waste stream (1) with a hot first hydrogen-rich gaseous stream (10) in a flash zone (2) at flash conditions thereby increasing the temperature of the waste stream and vaporizing at least a portion thereof to provide a vapour stream (3) and a heavy product (4) comprising the non-distillable component; (b) catalytically hydrogenating the vapour stream in a hydrogenation reaction zone (5); and (c) condensing (8) at least a portion of the effluent (6) from the hydrogenation reaction zone (5) to provide a second hydrogen-rich gaseous stream (10) and a liquid stream comprising hydrogenated distillable hydrocarbonaceous products (16).

IPC 1-7
C10G 45/02; **C10M 175/00**

IPC 8 full level
C10G 45/02 (2006.01); **C10G 65/04** (2006.01); **C10M 175/00** (2006.01)

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Citation (examination)
EP 0301758 A1 19890201 - UOP INC [US]

Cited by
US5490919A; CN112940832A; CN107574012A; EP0469701A3; US5141629A; EP0682100A1; EP0717765A4; US9352292B2; WO2012098293A1

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