Title (en)
METHOD OF SUPPLYING HEAT TO HIGH TEMPERATURE PROCESS STREAMS

Publication
EP 0204410 A3 19880720 (EN)

Application
EP 86302917 A 19860418

Priority
US 73832485 A 19850528

Abstract (en)
[origin: EP0204410A2] A petroleum process stream is heated by injecting an oxygen-containing gas into the stream to cause partial combustion and a rise in temperature. The process is particularly useful in delayed coking and visbreaking although it may also be used for other processes operating at elevated temperatures such as fluid catalytic cracking. It is of particular utility with processes such as delayed coking where fouling of the preheater tubes has been a problem, since the furnace may be operated at a lower temperature with the feed being brought to the final reaction temperature by combustion. Thermal efficiency is increased since heat transfer occurs directly and the injected oxidant and the combustion products help to strip volatile cracked products from the coking drum. Decreased fouling enables higher coker temperatures to be used, with consequent improvements in the yield of cracked products and a decrease in the yield of coke.

IPC 1-7
C10B 55/00; C10G 9/38; C10G 9/00; C10G 11/22; C10G 11/18

IPC 8 full level
C10B 55/00 (2006.01); **C10G 9/00** (2006.01); **C10G 9/38** (2006.01); **C10G 11/22** (2006.01)

CPC (source: EP)
C10B 55/00 (2013.01); **C10G 9/007** (2013.01); **C10G 9/38** (2013.01); **C10G 11/22** (2013.01)

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