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(54) Title: HYDROPROCESSING METHODS UTILIZING CARBON OXIDE-TOLERANT CATALYSTS

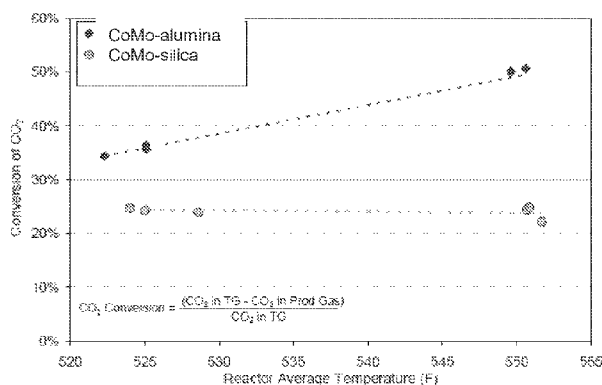


FIG. 2

(57) Abstract: The invention includes a hydro treating method for increased CO content comprising: contacting an olefinic naphtha feedstream with a hydrogen-containing treat gas stream and a hydrotreating catalyst in a reactor under hydrotreating conditions sufficient to at least partially hydrodesulfurize and/or hydrodenitrogenate the feedstream, wherein the feedstream and the hydrogen-containing treat gas stream collectively have greater than 10 vppm CO content and/or wherein the reactor inlet sees an average CO concentration of greater than 10 vppm, wherein the hydrotreating catalyst comprises a catalyst having cobalt and molybdenum disposed on a silica-based support, and wherein the hydrotreating conditions are selected such that the catalyst has a relative HDS activity at least 10% greater than an identical catalyst under identical conditions except for a collective CO content of the feedstream and/or hydrogen-containing treat gas being <10 vppm and/or a reactor inlet CO content <10 vppm.



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