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(54) Title: NAPHTHA DESULFURIZATION WITH REDUCED MERCAPTAN FORMATION

(57) Abstract: Naphtha desulfurization with reduced product mercaptans is achieved by reacting a naphtha feed containing sulfur compounds and olefins with hydrogen in the presence of a hydrodesulfurization catalyst at reaction conditions including a temperature of from 290-425 °C, a pressure of from 60-150 psig, and a hydrogen gas ratio of from 2000-4000 scf/b. It has been found that desulfurizing within these narrow conditions permits deep desulfurization with reduced mercaptan reversion, to produce a naphtha product with low total sulfur and low mercaptan sulfur levels.



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