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(54) Title: FCC PRODUCT VAPOUR SEPARATION METHOD FOR IMPROVED PRODUCT RECOVERY

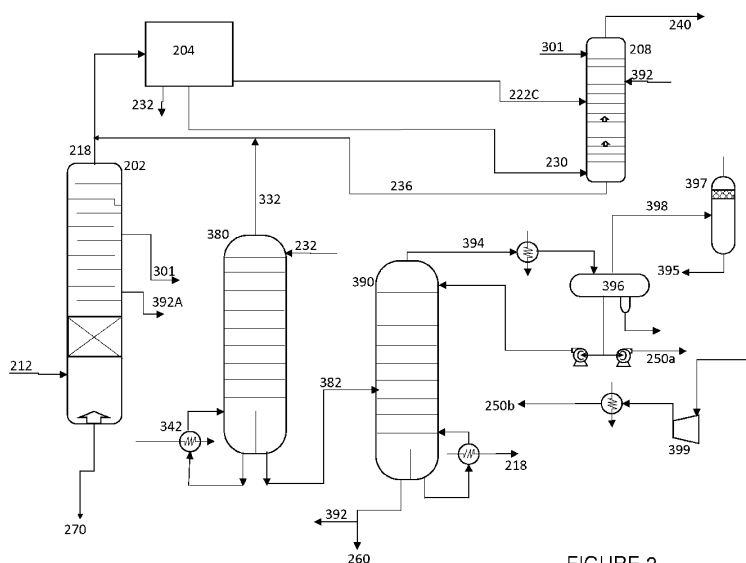


FIGURE 2

(57) Abstract: Systems and processes for separating a mixture of cracked hydrocarbons. A main fractionator separates the mixture of cracked hydrocarbons into an overheads comprising C1 to C6+ hydrocarbons, a side draw, and a bottoms. An overheads condensation and high-pressure separation system partially condenses the overheads and compresses the uncondensed vapor to produce a compressed gas fraction and a compressed liquids fraction. A first distillation column receives the compressed liquids fraction and separates the compressed liquids fraction into a first overheads vapor and a first bottoms. A second distillation column separates the first bottoms into a second overheads and a second bottoms. An absorber receives and contacts in countercurrent flow a portion of the second bottoms fraction and the side draw liquid fraction with the compressed gas fraction, producing an absorber overheads fraction comprising offgas and an absorber bottoms fraction. Such systems are useful in integrating existing FCC/RFCC units with petrochemical complexes.

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