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(54) Title: PROCESS FOR STABILIZATION OF REACTIVE LIQUID FEEDSTOCK

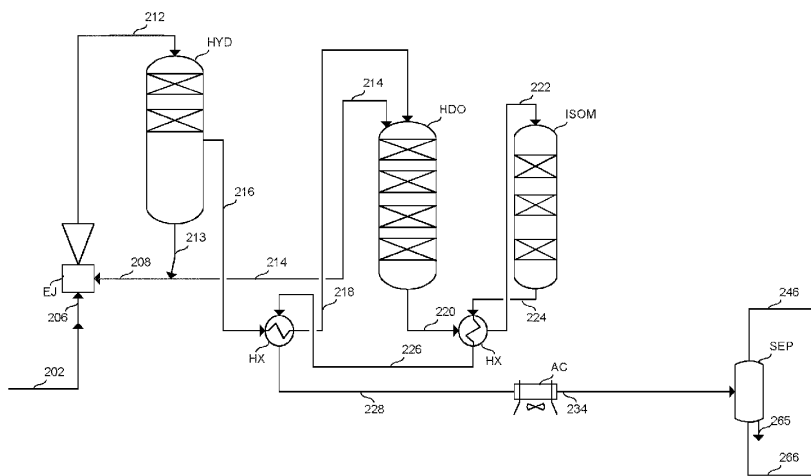


Fig. 2

(57) Abstract: The present disclosure relates to a process and a process plant for conversion of a reactive liquid feedstock stream containing at least 40 wt% carbon, comprising the steps of a. directing a diluent stream, having a first combined hydrogen consumption potential and the reactive liquid feedstock stream as a combined stream having a first hydrogen consumption potential, to contact a material catalytically active in hydrotreatment which during operation has a lowest temperature of at least 80°C and a highest temperature of less than 250°C in the presence of dihydrogen, b. withdrawing a stabilized composition stream having a second combined hydrogen consumption potential which is less than 80% and more than 10% of the first hydrogen consumption potential, c. providing an amount of the liquid phase of said stabilized composition stream as said diluent stream wherein the hydrogen consumption potential for a composition shall be understood as the amount of hydrogen required for conversion of the composition into a saturated hydrocarbon.

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This has the associated benefit of the diluent being only partly converted and thus having a chemical nature favoring miscibility with the reactive feedstock, such that material catalytically active in hydrotreatment is contacted with a mixed liquid which is uniform, and which due to the dilution is less prone to polymerization and has a higher heat capacity, relative to the reactivity.