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(54) Title: OLIGOMERIZATION OF ETHYLENE TO LIQUID TRANSPORTATION FUELS WITH POST SYNTHESIS TREATED ZSM-5 CATALYST

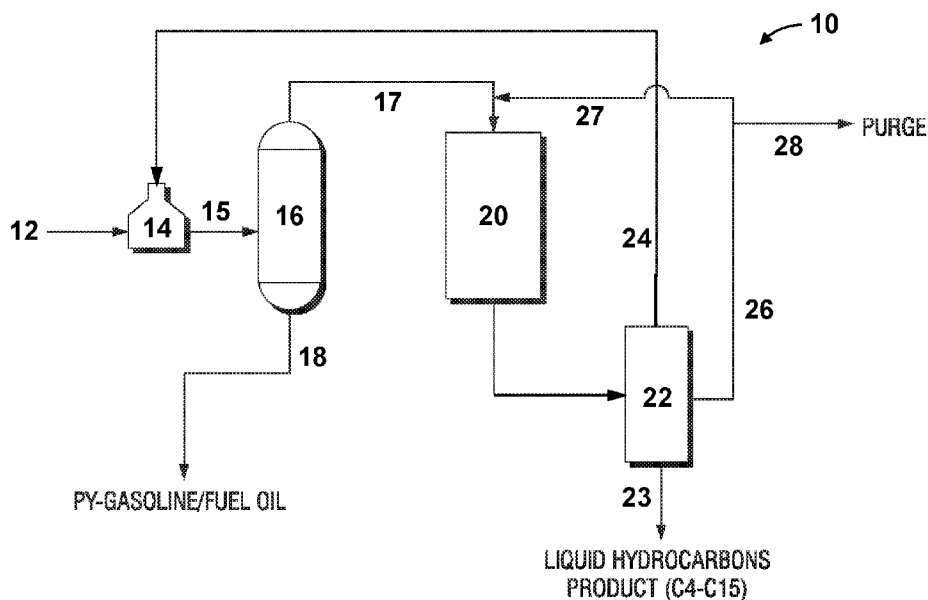


FIG. 1

(57) **Abstract:** A process for converting ethylene to liquid fuel products utilizing a ZSM-5 catalyst that is essentially free of catalyst metals other than silica and alumina, where the catalyst has been subjected to a post-synthesis treatment comprising contacting the catalyst with a solution comprising at least one of an acid or a base to increase the resistance of the catalyst to accumulation of coke in the zeolite crystallite and extend catalyst life. The base treatment is provided by a weak sodium hydroxide of less than 1 Molar. The acid treatment comprises a hydrogen chloride solution exceeding 2 Molar.



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B. FIELDS SEARCHED

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