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(54) **Title:** PROCESS FOR PRODUCING OLEFINS AND AROMATICS THROUGH HYDRO PYROLYSIS AND COKE MAN-
AGEMENT

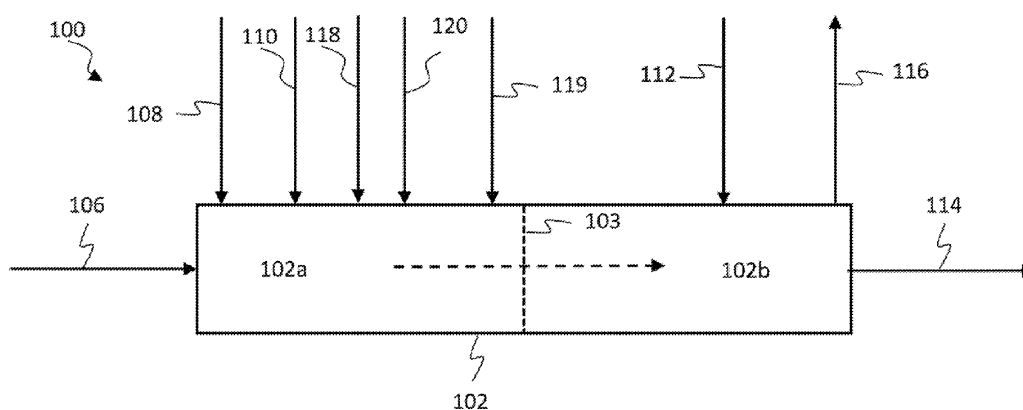


FIG. 1

(57) **Abstract:** Systems and processes for producing olefins and aromatics. A process can include contacting a first hydrocarbon feed with a catalyst and a hydrogen source under conditions sufficient to produce a used catalyst and an intermediate stream containing olefins and aromatics, and contacting the used catalyst with the intermediate stream and a coke precursor feed to produce a spent coked catalyst and a products stream comprising additional olefins and aromatics.

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WO 2022/096996 A1

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