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(71) Applicant: **EXXONMOBIL TECHNOLOGY AND EN-**

Applicant: ELEXON MOBILE TECHNOLOGY AND ENGINEERING COMPANY [US/US]; 22777 Springwoods Village Parkway, Spring, TX 77389 (US).

(72) **Inventors:** KANDEL, Kapil; 17411 Durham Ridge Lane.

Humble, TX 77346 (US). **LIU, Yifei**; 1718 Oakdale Street, Houston, TX 77004 (US). **PEER, Maryam**; 23 Huntley Way, Bridgewater, NJ 08807 (US). **EMANUELE, Krystle, J.**; 1329 Fox Glenn Drive, Hummelstown, PA 17036 (US). **WANG, Cheng-Yu**; 9 Cambridge Drive, Annandale, NJ 08801 (US). **XU, Teng**; 5902 Oakland Field Trail, Houston, TX 77059 (US).

(74) **Agent:** CHEN, Siwen et al.; ExxonMobil Technology And

Engineering Company, 22777 Springwoods Village Parkway, Spring, TX 77389 (US).

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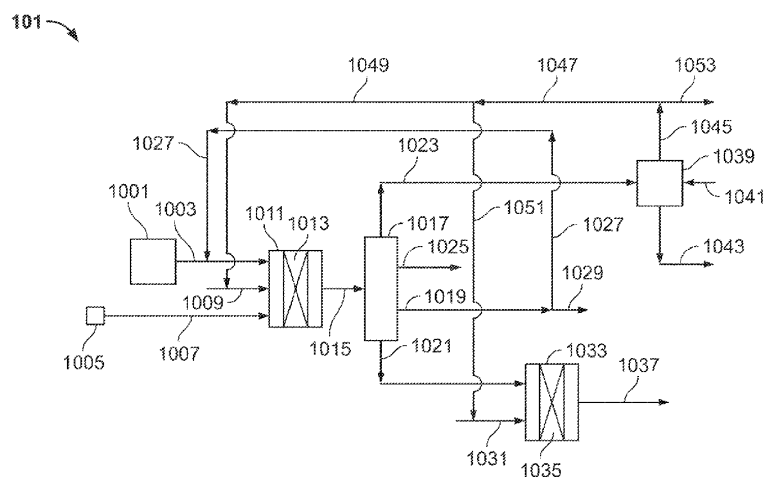


FIG. 1

(57) **Abstract:** Processes and systems for upgrading hydrocarbon(s). In some embodiments, the process can include feeding molecular hydrogen, a utility fluid, and a hydrocarbon feed that includes a Group I lube extract into a first hydroprocessing stage. The process can also include hydroprocessing in the first hydroprocessing stage to produce a first hydroprocessed effluent. The process can also include separating from the first hydroprocessed effluent a mid-cut product and a bottoms product. The process can also include feeding molecular hydrogen and at least a portion of the bottoms product into a second hydroprocessing stage. The process can also include hydroprocessing in the second hydroprocessing stage to produce a second hydroprocessed effluent. The process can also include recycling at least a portion of the midcut product to the first hydroprocessing stage as at least a portion of the utility fluid.

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