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(54) Title: CATALYTIC PROCESSES AND SYSTEMS FOR BASE OIL PRODUCTION FROM HEAVY FEEDSTOCK

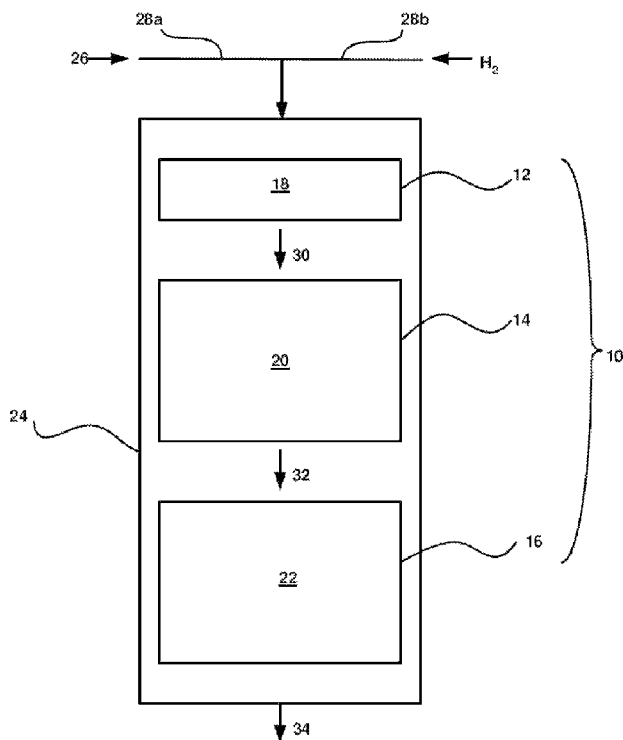


FIG. 1

(57) Abstract: Processes and catalyst systems are provided for dewaxing a heavy hydrocarbon feedstock to form a lubricant base oil. A layered catalyst system of the present invention may comprise a first hydroisomerization dewaxing catalyst disposed upstream from a second hydroisomerization dewaxing catalyst. Each of the first and second hydroisomerization dewaxing catalysts may be selective for the isomerization of n-paraffins. The first hydroisomerization catalyst has a first level of selectivity for the isomerization of n-paraffins, the second hydroisomerization dewaxing catalyst has a second level of selectivity for the isomerization of n-paraffins, and a layered catalyst system comprising the first and second hydroisomerization dewaxing catalysts has a third level of selectivity for the isomerization of n-paraffins. The third level of selectivity may be higher than each of the first level of selectivity and the second level of selectivity.



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- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

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