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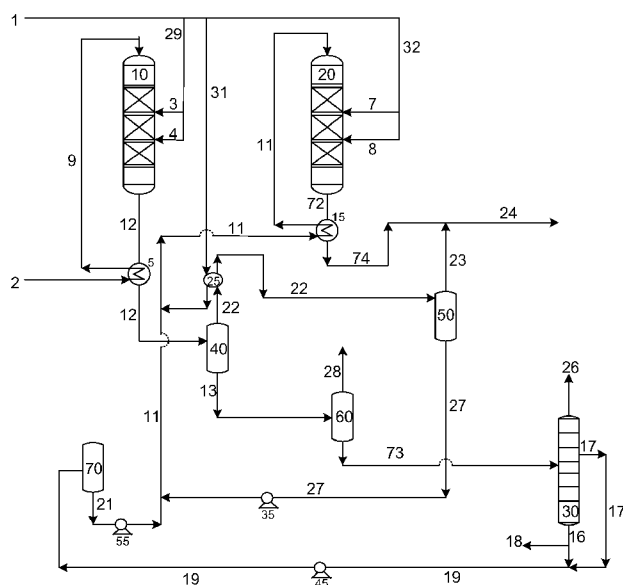
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(54) Title: TARGETED HYDROGENATION HYDROCRACKING

FIGURE 1



(57) Abstract: This invention is directed to a process
scheme in which a partial conversion hydrocracking
(HCR) unit, preferably preceded by a hydrotreating
unit, feeds unconverted oil to a FCC (fluid catalytic
cracking) unit. Most refineries run the FCC unit at the
full capacity for optimal asset utilization. During shut-
downs of Residue Desulfurization unit(s) which feed an
FCC unit, it is desirable to reduce the conversion in the
FCC feed hydrocracker. In this way, the feed to FCC
unit is maximized. Jet and Diesel products that conform
to specifications may be produced during low conver-
sion HCR operation. Furthermore, undesirable over-
saturation of the unconverted oil (UCO) from the HCR
unit feeding the FCC unit can be avoided. Excess hy-
drogen consumption can also be avoided. Normally,
further aromatic saturation of the middle distillate
products from a low conversion HCR is achieved in a
separate, post treatment, unit.



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