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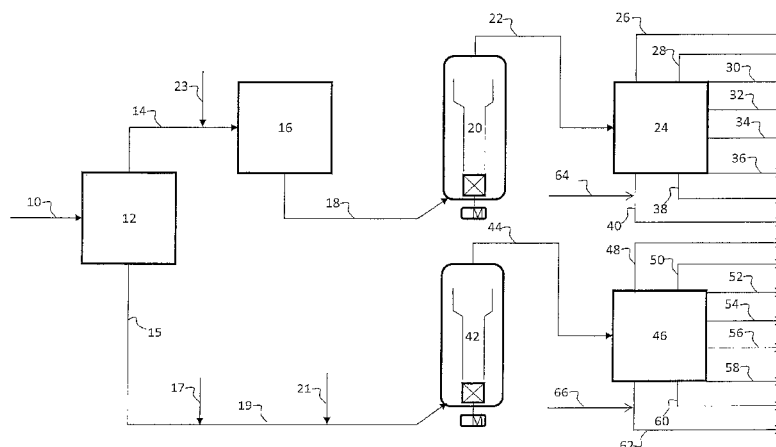
- as to applicant's entitlement to apply for and be granted a
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(54) **Title:** RESIDUE HYDROCRACKING PROCESSING

Figure 1



- (57) **Abstract:** A process for upgrading residuum hydrocarbons and decreasing tendency of the resulting products toward asphaltene formation in downstream processes is disclosed. The process may include: contacting a residuum hydrocarbon fraction and hydrogen with a hydroconversion catalyst in a hydrocracking reaction zone to convert at least a portion of the residuum hydrocarbon fraction to lighter hydrocarbons; recovering an effluent from the hydrocracking reaction zone; contacting hydrogen and at least a portion of the effluent with a resid hydrotreating catalyst; and separating the effluent to recover two or more hydrocarbon fractions.

