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A B S T R A C T

HYDROTREATING PROCESS

A hydrotreating process comprising:

- (i) further hydrotreating partly hydrotreated hydrocarbon oil in the presence of clean hydrogen containing gas,
- (ii) separating the effluent of step (i) into hydrotreated hydrocarbon oil and used hydrogen containing gas, which hydrotreated hydrocarbon oil is removed from the process,
- (iii) hydrotreating fresh hydrocarbon oil in the presence of used hydrogen containing gas obtained in step (ii),
- (iv) separating the effluent of step (iii) into partly hydrotreated hydrocarbon oil and contaminated hydrogen containing gas, which contaminated hydrogen containing gas is removed from the process, and
- (v) transporting partly hydrotreated hydrocarbon oil obtained in step (iv) to step (i). Further, the invention relates to a reactor vessel suitable for carrying out such process.

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