

Title (en)

APPARATUS AND PROCESS FOR SEPARATING ASPHALTENES FROM AN OIL-CONTAINING FUEL

Title (de)

VORRICHTUNG UND VERFAHREN ZUR ABTRENNUNG VON ASPHALTENEN AUS EINEM ÖLHALTIGEN BRENNSTOFF

Title (fr)

DISPOSITIF ET PROCÉDÉ POUR LA SÉPARATION D'ASPHALTÈNES D'UN COMBUSTIBLE CONTENANT DE L'HUILE

Publication

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Application

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Abstract (en)

[origin: WO2016173732A1] The invention relates to an apparatus (1, 91) for separation of asphaltenes from an oil-containing fuel (3), comprising a mixing element (11, 95) for intensive mixing of the oil-containing fuel (3) with a solvent (5, 93) to form a solution supersaturated with asphaltenes, a vessel (15, 97) for reducing the oversaturation by depositing the asphaltenes out of the supersaturated solution, a growth zone (23, 111) formed within the vessel (15, 97) for growth of asphaltene particles present via the asphaltenes separated out of the supersaturated solution, and a classifying unit (25) connected in terms of flow to the vessel (15, 97) for separation of the asphaltene particles grown in the growth zone (23, 111) in terms of their particle size, wherein the vessel (15, 97) is formed and set up such that a stream (79, 113) containing asphaltene particles circulates between the mixing element (11, 95) and the growth zone (23, 111) of the vessel (15, 97). The invention further relates to a corresponding process in which a stream (79, 113) containing asphaltene particles circulates between the mixing element (11, 95) and the growth zone (23, 111) of the vessel (15, 97).

IPC 8 full level

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