

Title (en)

METHOD FOR CAREFULLY DISTILLING RESIDUAL OIL FOR A SHORT TIME

Title (de)

VERFAHREN ZUR SCHONENDEN KURZZEIT-DESTILLATION VON RÜCKSTANDSÖLEN

Title (fr)

PROCEDE DE DISTILLATION COURT-TERME DOUCE D'HUILES RESIDUELLES

Publication

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Application

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Abstract (en)

[origin: WO0142394A1] The invention relates to a residual oil caused by the treatment of crude oil, natural bitumen or oil sand. The residual oil is mixed with grained, hot coke acting as a heat transfer medium (thermal coke) in a mixer and at a weight ratio of 1:3 to 1:30. A liquid residual film is produced on the grains of the thermal coke. Said film partially vaporises in the mixer. Gases and vapours and moist, sticky coke are withdrawn from the mixer. The mixture consisting of coke and residual oil is guided into a downstream stirrer pot and slowly moves downwards in said pot, whereby the mixture is stirred mechanically at a temperature ranging from 450 to 600 DEG C and preferably 480 to 550 DEG C. Dry, pourable coke is withdrawn from the stirrer pot. Sojourn time of the thermal coke in the stirrer pot usually amounts to 1 to 30 minutes.

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