

Title (en)

PROCESS FOR SEPARATING RESINOUS MATERIALS FROM HEAVY COAL OILS, AND USE OF THE FRACTIONS SO OBTAINED

Publication

EP 0135943 B1 19890104 (DE)

Application

EP 84200689 A 19840515

Priority

DE 3335316 A 19830929

Abstract (en)

[origin: US4582591A] Heavy oil derived from coal is diluted with organic solvent to a content of less than 10 weight percent of toluene-insoluble material. The mixture is then mixed with a non-aromatic solvent in a ratio of 1:3 to 5:1. With slow stirring of the heavy phase at a temperature of between 50 DEG and 200 DEG C., this mixture is separated into a pumpable TI-poor and a pumpable TI-rich fraction under the action of gravity, with a settling-surface load of up to 1 metric ton/m² hour. No beta -resins are precipitated from these fluid fractions. No tacky, rubber-like sediment is formed from the TI-rich fraction. The fractions are distillatively separated from the solvents, which can be reused. The TI-poor fraction can be used, for example, as a carbon-black oil component or can be processed further to an impregnating agent for carbon shapes. Binders for carbon shapes or cokes are obtained from the TI-rich fraction.

IPC 1-7

C10G 53/06; **C10G 21/00**; **C09C 1/48**; **C10L 5/16**; **C10L 5/32**; **C10B 57/04**

IPC 8 full level

C10C 1/18 (2006.01); **C09C 1/48** (2006.01); **C10B 55/00** (2006.01); **C10B 57/04** (2006.01); **C10C 3/08** (2006.01); **C10G 21/00** (2006.01); **C10G 21/02** (2006.01); **C10G 53/06** (2006.01); **C10L 5/16** (2006.01); **C10L 5/32** (2006.01)

CPC (source: EP US)

C10B 55/00 (2013.01 - EP US); **C10G 21/02** (2013.01 - EP US); **C10G 53/06** (2013.01 - EP US); **C10L 5/16** (2013.01 - EP US)

Designated contracting state (EPC)

BE DE FR GB IT

DOCDB simple family (publication)

EP 0135943 A2 19850403; **EP 0135943 A3 19870311**; **EP 0135943 B1 19890104**; DE 3335316 A1 19850411; DE 3475919 D1 19890209; JP H0458519 B2 19920917; JP S6092389 A 19850523; US 4582591 A 19860415; ZA 845600 B 19850327

DOCDB simple family (application)

EP 84200689 A 19840515; DE 3335316 A 19830929; DE 3475919 T 19840515; JP 20209784 A 19840928; US 63793484 A 19840806; ZA 845600 A 19840719