

Title (en)

Process and apparatus for hydraulically decoking petroleum coke.

Title (de)

Verfahren und Vorrichtung zum hydraulischen Austragen von Petrolkoks.

Title (fr)

Procédé et dispositif de décokage hydraulique de coke de pétrole.

Publication

EP 0291409 A1 19881117 (FR)

Application

EP 88401146 A 19880510

Priority

FR 8706765 A 19870513

Abstract (en)

The invention relates to a process for coking hydrocarbon charges such as heavy distillation products or residues. It relates more particularly to the subsequent stage of recovery of the coke after it has been deposited in the coking reactor. This process consists in lowering into the reactor (1), from a drum (3) onto which it is wound, a flexible tube (14) of sufficient mechanical strength whose lower end is provided with means for ejecting water (17) downwards and/or sideways and whose descent is controlled by the unwinding from the drum. Water under pressure is passed through the tube and through the means of ejection in the direction of the coke and the pieces of coke which are detached are removed (20). The drum can be moved sideways so as to come into position above each of the reactors in turn when two or more reactors are employed. <IMAGE>

IPC 1-7

C10B 33/00

IPC 8 full level

B08B 9/093 (2006.01); **C10B 33/00** (2006.01); **C10B 43/08** (2006.01); **C10B 55/00** (2006.01); **C10B 57/04** (2006.01)

CPC (source: EP)

B08B 9/0936 (2013.01); **C10B 33/006** (2013.01)

Citation (search report)

- [X] DE 2840447 A1 19800327 - PUMPENFABRIK URACH
- [A] US 4107001 A 19780815 - KINZLER RAYMOND CARL
- [A] US 2254848 A 19410902 - HOLVECK JOSEPH E

Cited by

EP2167246A4; DE4340528A1; CN103341461A; CN104056829A; GB2226389A; GB2226389B; DE3941953C2; EP0293972B1

Designated contracting state (EPC)

DE ES GB IT

DOCDB simple family (publication)

EP 0291409 A1 19881117; **EP 0291409 B1 19910123**; CA 1335580 C 19950516; DE 3861624 D1 19910228; ES 2021447 B3 19911101; FR 2615198 A1 19881118; FR 2615198 B1 19910111; IN 171268 B 19920829; JP 2552526 B2 19961113; JP S63305191 A 19881213

DOCDB simple family (application)

EP 88401146 A 19880510; CA 566814 A 19880513; DE 3861624 T 19880510; ES 88401146 T 19880510; FR 8706765 A 19870513; IN 293MA1988 A 19880505; JP 11804188 A 19880513