

Title (en)
Pyrolysis heater.

Title (de)
Pyrolyseerhitzer.

Title (fr)
Dispositif de chauffage pour pyrolyse.

Publication
EP 0305799 A1 19890308 (EN)

Application
EP 88113240 A 19880816

Priority
US 9180987 A 19870901

Abstract (en)
The first half and preferably only the first quarter of a pyrolysis coil (31,32) for treating hydrocarbons is provided with extended heating surface (52) for increasing the adsorption of radiant heat. The extended heating surface may be on the inside or the outside of the tubes and may be in the form of studes (54) or fins or ribs (56).

IPC 1-7
C10G 9/14

IPC 8 full level
C10G 9/00 (2006.01); **C10G 9/20** (2006.01); **C10G 9/24** (2006.01); **C10G 9/42** (2006.01); **F27B 17/00** (2006.01)

CPC (source: EP KR)
C10G 9/20 (2013.01 - EP); **C10G 9/24** (2013.01 - KR)

Citation (search report)
• GB 2021632 A 19791205 - LUMMUS CO
• US 4342642 A 19820803 - BAUER WILLIAM V, et al
• US 3274978 A 19660927 - PALCHIK EDWARD H, et al

Cited by
EP2910303A1; EP1417098A4; FR2688797A1; FR2768153A1; EP0523762A1; EP1136541A1; GB2314853A; EP0519230A1; US7004085B2; US8354084B2; WO03095590A1; US7749462B2; USRE43650E; US8029749B2; US8088345B2; WO9856872A1; WO03087268A3; WO2012145820A1; US6419885B1; US6719953B2; US6644358B2; US8033767B2; US8070401B2; US9205400B2; US9604193B2

Designated contracting state (EPC)
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EP 88113240 A 19880816; BR 8804460 A 19880831; CA 575647 A 19880825; CN 88106833 A 19880901; DE 3865785 T 19880816; ES 88113240 T 19880816; IN 694CA1988 A 19880819; JP 20847188 A 19880824; JP 7498592 U 19921002; KR 880011277 A 19880901