

Title (en)

APPARATUS FOR HEATING AND MIXING HIGH VISCOSITY FLUIDS

Publication

EP 0082310 A3 19840328 (EN)

Application

EP 82110659 A 19821118

Priority

US 33149781 A 19811217

Abstract (en)

[origin: EP0082310A2] An apparatus for heating a highly viscous slurry including an axially elongated hollow housing (1) through which the slurry to be heated flows and a heat exchanger (4) through which a heating fluid is passed disposed within the housing so that slurry flowing axially therethrough must pass over the heat exchanger, characterized in that the heat exchanger comprises an elongated, bulb-shaped chamber 4 mounted on a rotating shaft (6) disposed coaxially within and extending through the housing. The heating fluid enters the chamber (4) through an inlet passage extending through the neck (10) of the shaft (6) and leaves the chamber (4) through an outlet passage also extending through the neck (10) of the shaft (6). A plurality of pins (25) may be mounted to extend radially outward from the external surface of the chamber (4) to continuously stir the slurry and enhance heat exchange.

IPC 1-7

F23K 1/04; **F28D 11/02**; **B01F 15/06**

IPC 8 full level

C10L 1/32 (2006.01); **F23K 1/04** (2006.01); **F28D 11/02** (2006.01)

CPC (source: EP)

F23K 1/04 (2013.01); **F28D 11/02** (2013.01)

Citation (search report)

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Designated contracting state (EPC)

DE FR

DOCDB simple family (publication)

EP 0082310 A2 19830629; **EP 0082310 A3 19840328**; JP S58108298 A 19830628; ZA 829218 B 19830928

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