

Title (en)

THERMAL STRESS REDUCING DEVICE AT THE BOTTOM OF A VERTICAL HEAT EXCHANGER

Publication

**EP 0039290 B1 19830330 (FR)**

Application

**EP 81400654 A 19810427**

Priority

FR 8009634 A 19800429

Abstract (en)

[origin: ES8202977A1] A vertical heat exchanger adapted to be located between a primary liquid alkali metal circuit and a secondary liquid alkali metal circuit in a fast neutron nuclear reactor is disclosed. The exchanger includes an outer sleeve surrounding an annular tubular bundle on an axial conduit for introduction of the secondary liquid alkali metal in the tubes through a chamber provided in the bottom of the exchanger. The bottom of the exchanger is surrounded by an envelope defining a space in which the primary liquid alkali metal circulates between an annular opening provided at the periphery of the tubular plate carrying the tubular bundle and at least one output opening in the bottom of the envelope.

IPC 1-7

**F28D 7/00**

IPC 8 full level

**F28D 7/16** (2006.01); **F28D 1/02** (2006.01)

CPC (source: EP US)

**F28D 1/0213** (2013.01 - EP US); **F28D 2021/0054** (2013.01 - EP US); **F28F 2265/26** (2013.01 - EP US); **Y10S 165/051** (2013.01 - EP US)

Cited by

US5950372A; FR2527323A1

Designated contracting state (EPC)

BE DE FR GB IT NL

DOCDB simple family (publication)

**EP 0039290 A1 19811104**; **EP 0039290 B1 19830330**; DE 3160139 D1 19830505; ES 501720 A0 19820216; ES 8202977 A1 19820216; FR 2481507 A1 19811030; JP S56160588 A 19811210; US 4465127 A 19840814

DOCDB simple family (application)

**EP 81400654 A 19810427**; DE 3160139 T 19810427; ES 501720 A 19810428; FR 8009634 A 19800429; JP 6513881 A 19810428; US 25760181 A 19810427