

Title (en)

HEAT EXCHANGER WITH DOUBLE BARRIER

Publication

EP 0072736 B1 19840704 (FR)

Application

EP 82401472 A 19820804

Priority

FR 8115451 A 19810810

Abstract (en)

[origin: US4625789A] The present invention relates to a double barrier heat exchanger between a radioactive primary fluid and a secondary fluid making it possible to detect a possible primary fluid leak in the exchanger. The primary fluid circulates in a primary duct and the secondary fluid circulates in a secondary duct, a junction matrix being positioned between the primary and secondary ducts and in contact with the latter. The matrix is in the form of a compact metallic mass incorporating at least one element, e.g. silver, which can be made radioactive when it diffuses into the primary fluid. Application is to sampling circuits in nuclear reactors.

IPC 1-7

F28D 7/00

IPC 8 full level

F28F 11/00 (2006.01); **F28D 7/00** (2006.01); **F28F 1/00** (2006.01); **F28F 1/12** (2006.01)

CPC (source: EP US)

F28D 7/0008 (2013.01 - EP US); **F28D 2021/0054** (2013.01 - EP US); **F28F 2265/16** (2013.01 - EP US); **F28F 2275/02** (2013.01 - EP US); **Y10S 165/008** (2013.01 - EP US)

Cited by

US4625789A

Designated contracting state (EPC)

BE DE GB IT NL SE

DOCDB simple family (publication)

EP 0072736 A1 19830223; **EP 0072736 B1 19840704**; DE 3260330 D1 19840809; FR 2511139 A1 19830211; FR 2511139 B1 19831110; JP S5837494 A 19830304; JP S6361599 B2 19881129; US 4625789 A 19861202

DOCDB simple family (application)

EP 82401472 A 19820804; DE 3260330 T 19820804; FR 8115451 A 19810810; JP 13808282 A 19820810; US 40341582 A 19820730