

Title (en)
EMERGENCY CUT-OFF DEVICE FOR A STEAM GENERATOR TUBE IN CASE OF LEAKAGE

Publication
EP 0091374 B1 19850717 (FR)

Application
EP 83400684 A 19830331

Priority
FR 8205542 A 19820331

Abstract (en)
[origin: US4469051A] The invention relates to an emergency shut-off device, in the case of leakage, of a tube of a steam generator where the heat of vaporization is contributed by a liquid metal circulating in contact with the outer surface of the tube. The device includes on the terminal portion of the tube connected to the water supply device a tubular bush interposed in the path of the feed water. The bush contains a valve connected to the bush by a rupture part. The breakage of the part under the effect of an increased flow of water, in the case of a leakage, enables the closing of the outlet of the bush. The device includes also, in the terminal portion of the tube connected to the steam collector a bush containing a free valve enabling the steam outlet to be closed in the case of a leakage in the tube. The invention is applied in particular to steam generators of fast breeder nuclear reactors cooled by liquid sodium.

IPC 1-7
F22B 1/06; **F28F 11/06**

IPC 8 full level
F22B 1/06 (2006.01); **F28F 11/06** (2006.01); **G21D 5/08** (2006.01)

CPC (source: EP US)
F22B 1/063 (2013.01 - EP US); **F28F 11/06** (2013.01 - EP US)

Cited by
EP0334504A3; EP2151829A1; ITMI20081495A1

Designated contracting state (EPC)
BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)
EP 0091374 A1 19831012; **EP 0091374 B1 19850717**; DE 3360400 D1 19850822; FR 2524609 A1 19831007; FR 2524609 B1 19840601; JP S5912202 A 19840121; US 4469051 A 19840904

DOCDB simple family (application)
EP 83400684 A 19830331; DE 3360400 T 19830331; FR 8205542 A 19820331; JP 5675383 A 19830331; US 47281683 A 19830307