

Title (en)

Flexible lance for steam generator secondary side sludge removal.

Title (de)

Flexible Lanze zum Entfernen von Schlamm in der Sekundärseite eines Dampferzeugers.

Title (fr)

Lance flexible pour l'élimination des dépôts d'impuretés dans le côté secondaire d'un générateur de vapeur.

Publication

EP 0459597 A1 19911204 (EN)

Application

EP 91202024 A 19871204

Priority

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- US 2781087 A 19870318

Abstract (en)

A system (100) for lancing sludge deposits from within a bundle of vertically extending steam generator tubes of a PWR steam generator secondary side assembly has a flexible lance (130) mounted in a lance guide/housing transporter (102). A flexible cable (138) and a fiber optics cable (140) run along lower and upper passages in a plastic extrusion forming the body of the lance (130). The flexible cable (138) is movable in the body of the lance (130) to operate to sludge sampler (142). Inspecting optics (144) are connected to the fiber optics cable (140) for viewing the interior of the steam generator. Sprockets (120) engage sprocket holes (128) in the body of the lance (130) through openings in a curved end (133) of a lance guide (110) attached to a blow-down pipe riding cart (106). <IMAGE>

IPC 1-7

B25J 18/06; F22B 37/00

IPC 8 full level

F22B 37/48 (2006.01); **F28G 15/04** (2006.01)

CPC (source: EP)

F22B 37/483 (2013.01); **F28G 15/04** (2013.01)

Citation (search report)

- [X] US 4638667 A 19870127 - ZIMMER JOHN J [US], et al
- [A] EP 0077255 A1 19830420 - FRAMATOME & CIE [FR], et al
- [A] FR 2544123 A1 19841012 - THOME JEAN PATRICK [FR]
- [A] US 4407236 A 19831004 - SCHUKEI GLEN E [US], et al
- [A] EP 0084867 A1 19830803 - KRAFTWERK UNION AG [DE]
- [A] EP 0125186 A1 19841114 - ELECTRICITE DE FRANCE [FR]

Cited by

EP1124093A3; EP1340939A3; DE102015118615B3; EP1124092A3; FR2928770A1; EP0780627A1; FR2742858A1; US5782255A; US11060718B2; WO0111303A1

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