

Title (en)

WATER SUPPLY PIPE FOR STEAM GENERATOR

Title (de)

WASSERVERSORGUNGSLEITUNG FÜR DAMPFERZEUGER

Title (fr)

CONDUITE D'ALIMENTATION EN EAU POUR UN GÉNÉRATEUR DE VAPEUR

Publication

EP 2814039 A4 20151104 (EN)

Application

EP 13746076 A 20130204

Priority

- JP 2012024525 A 20120207
- JP 2013052501 W 20130204

Abstract (en)

[origin: EP2814039A1] The water supply tube for steam generator includes an insert tube portion (21) inserted in a penetration hole (112) of a shell member and a generator internal tube portion (22) connected to the insert tube portion. The generator internal tube portion includes a tubular passage and an effluence tube (25) allowing effluence of cooling water in the tubular passage to a space (40) in a steam generator. The tubular passage includes a first tilted portion (24c) in which a side having a greater distance from the insert tube portion along a flow direction is located vertically higher than a side having a smaller distance from the insert tube portion and a second tilted portion which is located with a greater distance from the insert tube portion than the first tilted portion. In the second tilted portion, a side having a greater distance from the insert tube portion along the flow direction is located vertically lower than a side having a smaller distance from the insert tube portion. In at least a portion of a section, along the flow direction, of the tubular passage (234a) between the first tilted portion and the second tilted portion, a bottom end (234b) of a cross section of the tubular passage is arranged vertically higher than a horizontal plane (30) including a top end (21a) of an inner wall surface of the insert tube portion at a connection between the insert tube portion and the generator internal tube portion.

IPC 8 full level

G21D 1/00 (2006.01); **F17D 1/08** (2006.01); **F22B 1/02** (2006.01); **F22B 1/16** (2006.01); **F22B 37/00** (2006.01); **F22B 37/22** (2006.01); **F28D 7/06** (2006.01); **F28F 9/013** (2006.01); **F28F 9/02** (2006.01); **F28F 9/22** (2006.01)

CPC (source: EP US)

F22B 1/025 (2013.01 - EP US); **F22B 21/00** (2013.01 - US); **F22B 37/14** (2013.01 - US); **F22B 37/228** (2013.01 - EP US); **F28D 3/04** (2013.01 - EP); **F28D 7/06** (2013.01 - EP US); **F28F 9/027** (2013.01 - EP US); **F28F 9/22** (2013.01 - EP US); **F28F 9/0131** (2013.01 - EP US); **F28F 9/0273** (2013.01 - EP US); **F28F 9/0275** (2013.01 - EP US); **G21D 1/00** (2013.01 - EP US)

Citation (search report)

- [XII] DE 3128613 A1 19820429 - KRAFTWERK UNION AG [DE]
- [A] US 2009020273 A1 20090122 - SCHNEIDER WILLIAM G [CA], et al
- [A] US 2008121194 A1 20080529 - PRABHU PADMANABHA J [US], et al
- [A] US 3854453 A 19741217 - MAYER H, et al
- [A] US 3913531 A 19751021 - VON HOLLEN RICHARD FREDERICK
- [A] EP 0035450 A1 19810909 - FRAMATOME SA [FR]
- See references of WO 2013118684A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 2814039 A1 20141217; **EP 2814039 A4 20151104**; **EP 2814039 B1 20170628**; JP 2013160695 A 20130819; US 2014360442 A1 20141211; WO 2013118684 A1 20130815

DOCDB simple family (application)

EP 13746076 A 20130204; JP 2012024525 A 20120207; JP 2013052501 W 20130204; US 201314376591 A 20130204