

Title (en)

CONDUIT WITH INNER CERAMIC INSULATION FOR CONVEYING (OF) HOT FLUIDS

Publication

EP 0000497 B1 19810107 (DE)

Application

EP 78100361 A 19780711

Priority

DE 2733611 A 19770726

Abstract (en)

[origin: US4259993A] A ceramic-lined pipe for hot fluids, e.g. gases or liquids from high-temperature nuclear reactors or within such reactors, comprises an outer metal-wall pipe formed internally with a lining of ceramic. The ceramic lining is constituted of a ceramic inner shell surrounded by a stress-absorbing reinforcing element in the form of a multiplicity of wires or cables or a sleeve. The reinforcing member stresses the ceramic body inwardly by way of compensation to the tensile stress caused by the thermal expansion of the ceramic inner shell and is sealed against the metal pipe wall directly or through the intermediary of another tubular member.

IPC 1-7

F16L 59/14; **F16L 59/06**

IPC 8 full level

F16L 59/07 (2006.01); **F16L 59/147** (2006.01); **G21C 11/08** (2006.01)

CPC (source: EP US)

F16L 59/07 (2013.01 - EP US); **F16L 59/147** (2013.01 - EP US); **G21C 11/081** (2013.01 - EP US); **Y02E 30/30** (2013.01 - EP US); **Y10S 138/05** (2013.01 - EP)

Cited by

EP0096791A1; AT386061B; EP0441025A3; TR26228A; EP0334010A1; EP0148434A1; US4732177A; WO2007065835A1; FR2894316A1; US8276621B2

Designated contracting state (EPC)

CH FR GB NL

DOCDB simple family (publication)

EP 0000497 A1 19790207; **EP 0000497 B1 19810107**; DE 2733611 A1 19790201; DE 2733611 C2 19821014; US 4259993 A 19810407

DOCDB simple family (application)

EP 78100361 A 19780711; DE 2733611 A 19770726; US 9542279 A 19791119