

Title (en)  
Steam generator.

Title (de)  
Dampferzeuger.

Title (fr)  
Générateur de vapeur.

Publication  
**EP 0178545 A1 19860423 (EN)**

Application  
**EP 85112524 A 19851003**

Priority  
JP 20824584 A 19841005

Abstract (en)  
A steam generator (1, 1A, 1B) suitable for in a liquid metal fast breeder reactor such as the superheater (1A) and/or the evaporator (1B) comprises a barrel (3), a heating transfer tubes (2), an inner shroud (5, 41, 51) and an outer shroud (8). The heating medium flows into the barrel (3) through an inlet pipe (10) and flows out the barrel (3) through an outlet pipe (9), wherein the inner shroud (5, 41, 51) forms the opening (5a, 41a, 51a) in the upper end thereof, and both the inlet pipe (10) and the outlet pipe (9) for the heating medium are provided at the upper portion of the barrel (3). In order to reduce the difference in temperature or thermal stress in the inner shroud (5, 41, 51), both the inlet pipe (10) and the outlet pipe (9) are provided at the upper portion of the barrel (3). The heating medium flows out from the barrel (3) to the outlet pipe (9) through the upper opening (5a, 41a, 51a) of the inner shroud (5, 41, 51). The region in the vicinity of the inner shroud (5, 41, 51) is filled with a stagnant or expended heating medium such as a sodium.

IPC 1-7  
**F22B 1/06**

IPC 8 full level  
**F22B 1/06** (2006.01); **F28D 7/02** (2006.01); **F28F 9/00** (2006.01); **G21C 1/02** (2006.01)

CPC (source: EP)  
**F22B 1/063** (2013.01)

Citation (search report)  
• [X] FR 2379881 A1 19780901 - COMMISSARIAT ENERGIE ATOMIQUE [FR]  
• [A] FR 1497102 A 19671006 - BABCOCK & WILCOX LTD  
• [A] US 3059908 A 19621023 - FOX III THOMAS H, et al  
• [A] FR 1392058 A 19650312 - BABCOCK & WILCOX CO  
• [A] FR 2321750 A1 19770318 - COMMISSARIAT ENERGIE ATOMIQUE [FR]

Designated contracting state (EPC)  
DE FR

DOCDB simple family (publication)  
**EP 0178545 A1 19860423; EP 0178545 B1 19880706**; DE 3563649 D1 19880811; JP S6189401 A 19860507

DOCDB simple family (application)  
**EP 85112524 A 19851003**; DE 3563649 T 19851003; JP 20824584 A 19841005