

Title (en)  
DESCALING DEVICE FOR STEAM GENERATOR

Title (de)  
ENTKALKUNGSVORRICHTUNG FÜR DAMPFERZEUGER

Title (fr)  
DISPOSITIF DE DETARTRAGE POUR UN GENERATEUR DE VAPEUR

Publication  
**EP 1170567 A4 20040428 (EN)**

Application  
**EP 00902850 A 20000203**

Priority  
JP 0000593 W 20000203

Abstract (en)  
[origin: EP1170567A1] Disclosed is a scale removing device for removing scale adhering to the interior of a shell-and-tube-heat-exchanger-type steam generator. The scale removing device is provided with a flexible lance (58) holding a high-pressure water hose (91) and movable with respect to the tube plate, the tube support plates, and the heat-transfer tubes, and a cleaning head (60) mounted to the forward end of the flexible lance. Formed inside the cleaning head is a cavitation generating nozzle hole (99a, 99b) communicating with the high-pressure water hose. Bubbles are generated at the time of cleaning, and the impact pressure generated when the bubbles collapse is propagated to remove scale over a wide range.  
<IMAGE>

IPC 1-7  
**F28G 9/00**

IPC 8 full level  
**B08B 3/02** (2006.01); **B08B 3/10** (2006.01); **C02F 1/00** (2006.01); **F22B 37/47** (2006.01); **F22B 37/48** (2006.01); **F28G 1/16** (2006.01); **F28G 9/00** (2006.01); **F28G 13/00** (2006.01); **F28G 15/04** (2006.01)

CPC (source: EP KR)  
**B08B 3/102** (2013.01 - EP); **F22B 37/475** (2013.01 - EP); **F22B 37/483** (2013.01 - EP); **F28G 1/166** (2013.01 - EP); **F28G 9/00** (2013.01 - KR); **F28G 13/00** (2013.01 - EP)

Citation (search report)  
• [X] US 4403735 A 19830913 - WEAVER COLIN R [GB]  
• [X] DE 8437870 U1 19860213  
• See references of WO 0157462A1

Cited by  
CN102401609A; US10099264B2; US9952008B2; US9206380B2; US9845447B2; WO2012131552A1; EP4067739A1

Designated contracting state (EPC)  
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