

Title (en)
Once-through steam generator.

Title (de)
Durchlaufdampferzeuger.

Title (fr)
Chaudière à vapeur à passage unique.

Publication
EP 0352488 A1 19900131 (DE)

Application
EP 89111630 A 19890626

Priority
EP 88112051 A 19880726

Abstract (en)
[origin: US4926799A] A continuous flow steam generator includes a vertical gas flue to which burners for fossil fuel are to be attached. The flue has a tube wall and a lower end with a bottom. The tube wall includes vertically disposed tubes with inlet and outlet ends and long sides being welded together in a gas-tight manner. The bottom includes other tubes having inlet and outlet ends and being welded together in a gas-tight manner. The tubes of the tube wall include tubes of a first tube group and tubes of a second tube group. The tubes of the first tube group are hydraulically connected to the other tubes of the bottom and have an outlet header connected to the tubes of the first tube group. The tubes of the second tube group have an inlet header and an outlet header connected to the tubes of the second tube group. A conduit is connected between the outlet header of the first tube group and the inlet header of the second tube group for hydraulically connecting the tubes of the second tube group downstream of the tubes of the first tube group. The inlet end of each tube of the first tube group merges with the outlet end of at least one of the other tubes of the bottom.

Abstract (de)
Die mit Rohren (6) des Bodens (3) des vertikalen Gaszuges eines Durchlaufdampferzeugers durchflußmäßig verbundenen, vertikal angeordneten Rohre (4) der Rohrwand (2) dieses vertikalen Gaszuges bilden eine erste Rohrgruppe, während zum Vermeiden von Wärmespannungen in der Rohrwand (2) bei Dampfdruck unterhalb des kritischen Druckes andere vertikal angeordnete Rohre (5) der Rohrwand (2) eine zweite Rohrgruppe bilden und den Rohren (4) der ersten Rohrgruppe durchflußmäßig nachgeschaltet sind.

IPC 1-7
F22B 29/06; F22B 37/14

IPC 8 full level
F22B 29/06 (2006.01); **F22B 37/12** (2006.01); **F22B 37/14** (2006.01)

CPC (source: EP US)
F22B 29/062 (2013.01 - EP US); **F22B 37/125** (2013.01 - EP US); **F22B 37/146** (2013.01 - EP US)

Citation (search report)

- [X] US 3498270 A 19700303 - GORZEGNO WALTER P, et al
- [AD] GB 1163555 A 19690910 - FOSTER WHEELER CORP [US]
- [A] FR 1167371 A 19581124 - BABCOCK & WILCOX FRANCE
- [A] DE 1426702 A1 19691023 - FOSTER WHEELER CORP

Cited by
DE19651678A1; US9163834B2; US6189491B1; WO9404870A1

Designated contracting state (EPC)
DE GB IT

DOCDB simple family (publication)
EP 0352488 A1 19900131; EP 0352488 B1 19931006; DE 58905817 D1 19931111; US 4926799 A 19900522

DOCDB simple family (application)
EP 89111630 A 19890626; DE 58905817 T 19890626; US 38574089 A 19890726