

Title (en)
Steam generator.

Title (de)
Dampferzeuger.

Title (fr)
Générateur de vapeur.

Publication
EP 0316132 A2 19890517 (EN)

Application
EP 88310476 A 19881108

Priority
US 12001187 A 19871112

Abstract (en)
A compact instant steam generator is provided for on site use where various qualities of steam may be required. A water jacket cooled combustion chamber having a burner at one end and a water spray nozzle at the other end is used. In operation, a water spray is directed countercurrently to the burner exhaust gases whereby instant vaporization of the water occurs due to the extreme turbulence and through mixing of the opposing streams. The water spray is located remote from the burner flame so that flame quenching by the water does not occur. The device of the invention is capable of generating steam while coproducing a very low level of carbon monoxide.

IPC 1-7
F22B 1/26

IPC 8 full level
F22B 27/16 (2006.01); **F22B 1/26** (2006.01); **F24H 1/18** (2006.01); **F24H 1/24** (2006.01)

CPC (source: EP KR)
F22B 1/26 (2013.01 - EP); **F22B 27/00** (2013.01 - KR)

Cited by
RU2707182C1; KR101381037B1; US5694761A; US5461854A; US6176075B1; US6938582B2; WO02065017A1; WO2009110841A1

Designated contracting state (EPC)
AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)
EP 0316132 A2 19890517; EP 0316132 A3 19900307; AU 2477188 A 19890518; AU 606764 B2 19910214; BR 8805886 A 19890801; CA 1267333 A 19900403; CN 1015200 B 19911225; CN 1033095 A 19890524; IN 168907 B 19910706; JP H01159503 A 19890622; JP H067001 B2 19940126; KR 890008509 A 19890710; PL 275766 A1 19890724; ZA 888322 B 19890830

DOCDB simple family (application)
EP 88310476 A 19881108; AU 2477188 A 19881107; BR 8805886 A 19881110; CA 582607 A 19881109; CN 88107775 A 19881109; IN 917CA1988 A 19881102; JP 28661788 A 19881111; KR 880014799 A 19881110; PL 27576688 A 19881111; ZA 888322 A 19881107