

Title (en)
STEAM GENERATOR FOR BATHS

Publication
EP 0310547 A3 19900124 (DE)

Application
EP 88810617 A 19880912

Priority
CH 383187 A 19871001

Abstract (en)
[origin: JPH01118002A] PURPOSE: To reduce the size and a cost of a steam generator for steam bath by a method wherein air at the periphery of a housing is supplied to the columnar housing having a water bath to introduce air by electric heating during operation by a blower, and circulated through the housing and a water pass. CONSTITUTION: A steam generator 1 is provided with a columnar housing 2 formed in a triangular shape in cross section. A coil resistance heating element 3IV is arranged in a water pass 3 to operate the steam generator. The size of the water pass 3 is set to a comparatively low value so that liquid is rapidly heated to temperature approximately equal to a boiling point. Air is introduced by a blower 4 is guided to a pipe 3" through an annular passage. By effecting bubbling through injection of air in the water bath, a contact area is increased and an amount of a liquid component in air is increased. Further, by circulating air, temperature distribution in a steam bath room is also further improved than a simple convection. Further, water brought into steam through circulation is returned to the water bath 3. A steam generator is formed in a small size and formed in a module unit having size suitable for a steam bath room.

IPC 1-7
A61H 33/06

IPC 8 full level
F22B 1/28 (2006.01); **A61H 33/06** (2006.01)

CPC (source: EP US)
A61H 33/063 (2013.01 - EP US)

Citation (search report)
• [A] DE 3404892 A1 19850814 - DANNENMANN GUDRUN [DE]
• [A] DE 3705715 A1 19870903 - LEPI SA [LU]
• [AD] CH 636263 A5 19830531 - HUNZIKER WALTER [CH]
• [A] US 4112281 A 19780905 - EPPS L MACON
• [A] US 4566450 A 19860128 - BROSSMAN JR HAROLD A [US]
• [A] US 3864440 A 19750204 - GIOCOECHEA GEORGE
• [A] CH 598814 A5 19780512 - DANNENMANN ROLF

Cited by
DE29716620U1; DE19606346A1; DE19606346C2

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

DOCDB simple family (publication)
EP 0310547 A2 19890405; EP 0310547 A3 19900124; EP 0310547 B1 19920102; AT E70968 T1 19920115; CA 1287366 C 19910806; CH 674144 A5 19900515; DE 3867406 D1 19920213; DK 165816 B 19930125; DK 165816 C 19930621; DK 542088 A 19890402; DK 542088 D0 19880929; ES 2029531 T3 19920816; JP H01118002 A 19890510; NO 172624 B 19930510; NO 172624 C 19930818; NO 884369 D0 19880930; NO 884369 L 19890403; US 4939343 A 19900703

DOCDB simple family (application)
EP 88810617 A 19880912; AT 88810617 T 19880912; CA 578618 A 19880927; CH 383187 A 19871001; DE 3867406 T 19880912; DK 542088 A 19880929; ES 88810617 T 19880912; JP 24725588 A 19880930; NO 884369 A 19880930; US 25070488 A 19880928