

Title (en)
ATMOSPHERIC GAS BOILER

Publication
EP 0276408 A3 19891025 (DE)

Application
EP 87117722 A 19871201

Priority
• DE 3702600 A 19870129
• DE 3705230 A 19870219

Abstract (en)
[origin: US4852523A] An atmospheric gas boiler has two vertically arranged end pieces and at least one middle piece arranged between them, as well as burner lances disposed in the lower part of the gas boiler. The pieces of the boiler through which hot water flows define a furnace, with secondary heating surfaces adjoining thereto. In order to lower the quantity of NOX arising during the combustion, the middle piece has a tongue through which hot water flows, extending into the furnace. The tongue possesses cooling ribs on the outside, which extend into the adjoining furnace spaces.

IPC 1-7
F24H 1/34

IPC 8 full level
F24H 1/28 (2006.01); **F24H 1/32** (2006.01); **F24H 1/34** (2006.01)

CPC (source: EP US)
F24H 1/287 (2013.01 - EP US); **F24H 1/32** (2013.01 - EP US); **F24H 9/0026** (2013.01 - EP US)

Citation (search report)
• [Y] FR 2151866 A5 19730420 - BUDERUS EISENWERK
• [Y] DE 2948838 A1 19810611 - SCHIRMER WILHELM DIPL ING
• [A] DE 8535986 U1 19860206

Cited by
EP0547641A1

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

DOCDB simple family (publication)
EP 0276408 A2 19880803; EP 0276408 A3 19891025; EP 0276408 B1 19910918; AT E67585 T1 19911015; DE 3705230 A1 19880811; DE 3705230 C2 19900517; DE 3773171 D1 19911024; ES 2026888 T3 19920516; US 4852523 A 19890801

DOCDB simple family (application)
EP 87117722 A 19871201; AT 87117722 T 19871201; DE 3705230 A 19870219; DE 3773171 T 19871201; ES 87117722 T 19871201; US 14943788 A 19880129