

Title (en)
A burner assembly

Title (de)
Brenneranordnung

Title (fr)
Ensemble brûleur

Publication
EP 1936271 A1 20080625 (EN)

Application
EP 06388067 A 20061211

Priority
EP 06388067 A 20061211

Abstract (en)
A burner assembly for being attached to the outer wall 22 of the casing of a boiler, particularly a marine boiler for use aboard sea-going vessels, for heating said boiler by injecting fuel and combustion air into a combustion chamber of the boiler through an inlet aperture 24 in the casing and comprising attachment means 25 for attaching the assembly to the casing around the inlet aperture, a burner housing 21 comprising a tubular portion 27 for conducting the combustion air to the inlet aperture, the tubular portion having a first axis A2 and a first end adjacent the inlet aperture and an opposite second end, a fuel injection nozzle 32 arranged in the tubular portion in the vicinity of the first end for injecting fuel into the combustion air, a combustion air propelling chamber 28 communicating with the second end through a propelling chamber outlet portion 30 having a second axis A3 such that the combustion air is ejected from the outlet portion into the second end in a direction generally parallel to the second axis, and a fan wheel 29 for propelling combustion air into said outlet portion and arranged for rotation in the propelling chamber, the angle between the first and second axes being between approx. 30 and 90 degrees, preferably between 35 and 80 degrees, more preferably between 35 and 70 degrees and most preferably between 40 and 60 degrees.

IPC 8 full level
F23D 11/00 (2006.01); **F04D 25/08** (2006.01); **F04D 29/42** (2006.01); **F23D 14/36** (2006.01)

CPC (source: EP KR)
F04D 25/08 (2013.01 - KR); **F04D 29/42** (2013.01 - KR); **F04D 29/4226** (2013.01 - EP); **F23D 11/00** (2013.01 - KR); **F23D 11/001** (2013.01 - EP); **F23D 14/36** (2013.01 - EP KR)

Citation (search report)

- [XY] EP 1582809 A2 20051005 - CIE EUROP DE BRULEURS S A [FR]
- [Y] NL 299566 A
- [A] DE 1973489 U 19671130 - LANDWEHR & SCHULTZ G M B H [DE]
- [A] US 2013816 A 19350910 - WEST JOHN W
- [A] FR 766266 A 19340625

Cited by
EP2792950A1; FR3004789A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
EP 1936271 A1 20080625; CN 101772673 A 20100707; CN 101772673 B 20120704; JP 2010512500 A 20100422; JP 4659121 B2 20110330; KR 101025353 B1 20110328; KR 20090089463 A 20090821; WO 2008071191 A1 20080619

DOCDB simple family (application)
EP 06388067 A 20061211; CN 200780051206 A 20071211; DK 2007000541 W 20071211; JP 2009540600 A 20071211; KR 20097014437 A 20071211