

Title (en)  
BURNER

Title (de)  
BRENNER

Title (fr)  
BRÛLEUR

Publication  
**EP 4314655 A1 20240207 (DE)**

Application  
**EP 22716206 A 20220317**

Priority  
• AT 612021 A 20210323  
• EP 2022057025 W 20220317

Abstract (en)  
[origin: WO2022200174A1] The invention relates to a burner, comprising a lateral hot gas region (21) and an outer region (22), a feed line for primary air (3), a feed line for secondary air (1), and a feed line for fuel (2), wherein the feed line for secondary air (1) comprises three concentric cylindrical tubes, and the feed line for fuel (2) is arranged concentrically around the feed line for secondary air (1); wherein there is a first dead volume (4) within the burner between the feed line for secondary air (1) and the feed line for fuel (2), and wherein the feed line for fuel (2) has a nozzle structure (5) on the hot gas side (21); a second dead volume (9) is located between the feed line for secondary air (1) and the feed line for fuel (2) on the side of the outer region (22); and the feed line for primary air (3) is arranged concentrically around the feed line for fuel (2).

IPC 8 full level  
**F23D 14/24** (2006.01)

CPC (source: AT EP US)  
**F23C 9/00** (2013.01 - AT); **F23C 9/08** (2013.01 - AT); **F23D 14/04** (2013.01 - AT); **F23D 14/08** (2013.01 - AT); **F23D 14/085** (2013.01 - AT); **F23D 14/24** (2013.01 - EP); **F23D 14/48** (2013.01 - AT); **F23D 14/58** (2013.01 - AT US); **F23D 14/64** (2013.01 - AT); **F23D 14/66** (2013.01 - AT); **F23J 11/00** (2013.01 - AT); **F23J 15/00** (2013.01 - AT); **F23K 5/007** (2013.01 - US); **F23L 9/02** (2013.01 - AT); **F23L 9/06** (2013.01 - US); **F23L 11/00** (2013.01 - AT); **F23L 15/00** (2013.01 - AT); **F23D 2203/007** (2013.01 - AT US); **F23D 2204/10** (2013.01 - AT); **F23D 2204/20** (2013.01 - AT US); **F23D 2214/00** (2013.01 - AT); **F23D 2900/11403** (2013.01 - EP); **F23D 2900/14021** (2013.01 - US); **F23J 99/00** (2013.01 - AT); **F23J 2215/10** (2013.01 - AT); **F23J 2215/101** (2013.01 - AT US); **F23J 2215/40** (2013.01 - AT); **F23J 2219/00** (2013.01 - AT); **F23J 2219/20** (2013.01 - AT); **F23J 2900/15081** (2013.01 - AT); **F23K 2400/201** (2020.05 - US); **F23L 2900/07005** (2013.01 - AT)

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**WO 2022200174 A1 20220929**; AT 524888 A1 20221015; EP 4314655 A1 20240207; US 2024175576 A1 20240530

DOCDB simple family (application)  
**EP 2022057025 W 20220317**; AT 612021 A 20210323; EP 22716206 A 20220317; US 202218283500 A 20220317