

Title (en)
VELOCITY CONTROL SHROUD FOR BURNER

Title (de)
GESCHWINDIGKEITSREGELUNGSBLENDE FÜR BRENNER

Title (fr)
CARÉNAGE DE RÉGULATION DE VITESSE POUR BRÛLEUR

Publication
EP 3060845 A4 20170705 (EN)

Application
EP 14856263 A 20141021

Priority
• US 201361893551 P 20131021
• CA 2014000759 W 20141021

Abstract (en)
[origin: WO2015058283A1] A burner for a pulverous feed material, such as for a flash smelting furnace. The burner has a burner block that integrates with the roof of the furnace and has an opening therethrough to communicate with the reaction shaft of the furnace. A wind box is mounted over the block and supplies reaction gas to the reaction shaft through a nozzle which extends through the block opening. The burner additionally has a velocity control shroud that is capable of distributing the reaction gas flow between two concentric annular flow areas to modify the flow profile of the reaction gas. The velocity control shroud can be used with auxiliary inserts to modify the velocity, direction, swirl, turbulence and stroke or other characteristics of the reaction gas flow.

IPC 8 full level
F23D 1/04 (2006.01); **F23C 7/00** (2006.01)

CPC (source: EP)
F23C 7/006 (2013.01); **F23C 7/008** (2013.01); **F23D 1/00** (2013.01)

Citation (search report)
• [X] WO 2013149332 A1 20131010 - HATCH LTD [CA]
• [X] US 2005211142 A1 20050929 - YAMAMOTO KENJI [JP], et al
• [X] US 4602571 A 19860729 - CHADSHAY ROMAN [US]
• [X] GB 2070761 A 19810909 - KAWASAKI HEAVY IND LTD
• See references of WO 2015058283A1

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

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