

Title (en)  
ROUND BURNER

Title (de)  
RUNDBRENNER

Title (fr)  
BRULEUR ANNULAIRE

Publication  
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Application  
**EP 07711219 A 20070302**

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Abstract (en)  
[origin: WO2007101427A1] Round burner for burning fossil fuels, comprising the following: a first nozzle (2) for introducing a stream of air or recirculated flue gas or a mixed stream of O<sub>2</sub> or air and recirculated flue gas, a fuel nozzle (3) for injecting fuel, arranged coaxially in relation to the first nozzle (2), enclosing the latter and forming an annular cross section (11), a gas nozzle I (4) for introducing a stream of air or recirculated flue gas or a mixed stream of O<sub>2</sub> or air and recirculated flue gas, arranged coaxially in relation to the first nozzle (2), enclosing the fuel nozzle (3) and forming an annular cross section (12), a gas nozzle II (5) for introducing a stream of air or O<sub>2</sub> or a mixed stream of O<sub>2</sub> or air and recirculated flue gas, arranged coaxially in relation to the first nozzle (2), enclosing the gas nozzle I (4) and forming an annular cross section (13), a gas nozzle III (6) for introducing a stream of air or recirculated flue gas or a mixed stream of O<sub>2</sub> or air and recirculated flue gas, arranged coaxially in relation to the first nozzle (2), enclosing the gas nozzle II (5) and forming an annular cross section (14), wherein, in the gas nozzle outlet region (17), the surface area of the annular cross section (13) of the gas nozzle II (5) is in a ratio of 1.2 to 2.0:1 to the surface area of the annular cross section (12) of the gas nozzle I (4) and the surface area of the annular cross section (14) of the gas nozzle III (6) is in a ratio of 0.2 to 0.8:1 to the surface area of the annular cross section (12) of the gas nozzle I (4) and the surface area of the cross section (10) of the first nozzle (2) is in a ratio of 0.01 to 0.1:1 to the surface area of the annular cross section (12) of the gas nozzle I (4).

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