

Title (en)  
COMBUSTION SYSTEM AND COMBUSTION FURNACE

Title (de)  
VERBRENNUNGSSYSTEM UND OFEN

Title (fr)  
SYSTEME ET FOUR DE COMBUSTION

Publication  
**EP 0805307 A4 19991201 (EN)**

Application  
**EP 96938530 A 19961122**

Priority  
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Abstract (en)  
[origin: WO9719295A1] A combustion system automatically controls the combustion air intake rate at a predetermined value by an induced fan through an air inlet of a combustion apparatus in accordance with the furnace temperature. The combustion system includes a combustion gas circulating system independent of the system for feeding high-temperature air for vaporizing the moisture and gasifying the volatile components in the materials to be burned or for initially burning the materials through the bottom of the furnace. A combustion furnace for use in this system is also disclosed.

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IPC 8 full level  
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**F23G 5/00** (2013.01 - KR); **F23G 5/50** (2013.01 - EP); **F23L 17/005** (2013.01 - EP); **F23G 2201/10** (2013.01 - EP); **F23G 2207/101** (2013.01 - EP); **F23G 2207/30** (2013.01 - EP); **F23G 2900/00001** (2013.01 - EP); **F23G 2900/55009** (2013.01 - EP)

Citation (search report)  
• [A] WO 9514194 A1 19950526 - SAITOH SHIGERU [JP]  
• [A] US 4495872 A 19850129 - SHIGAKI MASANOBU [JP]  
• [A] US 4838183 A 19890613 - TSAVERAS THOMAS [US], et al  
• [A] WO 9009552 A1 19900823 - STEINMUELLER GMBH L & C [DE]  
• [A] DE 3402787 A1 19860102 - WILHELM & SANDER GMBH [DE]  
• [A] EP 0480047 A1 19920415 - NIPPON KOKAN KK [JP]  
• See references of WO 9719295A1

Cited by  
ES2253959A1; CN106594747A; DE102006005464B3; EP1726876A1; US8544394B2; TWI424134B

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