

Title (en)  
MATRIX MEANS FOR REDUCING COMBUSTION VOLUME

Title (de)  
MATRIXMITTEL ZUR REDUZIERUNG EINES VERBRENNUNGSVOLUMENS

Title (fr)  
MATRICE POUR REDUIRE LE VOLUME DE COMBUSTION

Publication  
**EP 1836439 A4 20130904 (EN)**

Application  
**EP 06718277 A 20060112**

Priority  
• US 2006001185 W 20060112  
• US 64321905 P 20050112

Abstract (en)  
[origin: WO2006076549A1] A steam generating boiler having a matrix means (8) for reducing combustion volume. Matrix means (8) is placed in the combustion furnace (5) of a steam generating boiler, preferably downstream of fuel and oxidant stream (11, 12). Matrix means produces a shorter combustion envelope than that of a conventional boiler, allowing for reduced volume steam generating boilers.

IPC 8 full level  
**F23D 3/40** (2006.01); **F22B 13/00** (2006.01); **F23C 6/04** (2006.01); **F23D 14/84** (2006.01); **F23D 17/00** (2006.01)

CPC (source: EP KR NO)  
**F22B 21/343** (2013.01 - EP NO); **F23C 6/045** (2013.01 - EP); **F23D 3/40** (2013.01 - KR); **F23D 14/84** (2013.01 - EP); **F23D 17/002** (2013.01 - EP); **F23C 2201/401** (2013.01 - EP NO); **F23C 2900/06041** (2013.01 - EP NO); **F23D 2203/102** (2013.01 - EP); **F23D 2203/105** (2013.01 - EP); **F23D 2203/106** (2013.01 - EP); **F23D 2900/00003** (2013.01 - EP); **F23D 2900/00012** (2013.01 - EP); **F23D 2900/14582** (2013.01 - EP)

Citation (search report)  
• [XY] US 2362972 A 19441121 - LOWE BROWNBACK HENRY  
• [I] US 5511974 A 19960430 - GORDON MICHAEL W [US], et al  
• [YA] DE 29816864 U1 20000127 - VIESSMANN WERKE KG [DE]  
• See references of WO 2006076549A1

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

DOCDB simple family (publication)  
**WO 2006076549 A1 20060720**; AU 2006204840 A1 20060720; AU 2006204840 B2 20110929; BR PI0606693 A2 20090714; BR PI0606693 B1 20190514; CA 2594739 A1 20060720; CA 2594739 C 20140325; CN 101120208 A 20080206; CN 101120208 B 20100519; DK 1836439 T3 20150928; EP 1836439 A1 20070926; EP 1836439 A4 20130904; EP 1836439 B1 20150701; ES 2546645 T3 20150925; HU E027866 T2 20161128; JP 2008527310 A 20080724; JP 5232474 B2 20130710; KR 101362671 B1 20140212; KR 20070101868 A 20071017; MX 2007008516 A 20070919; NO 20073886 L 20071008; NO 340477 B1 20170502; PL 1836439 T3 20151231; PT 1836439 E 20151012; RU 2007144255 A 20090610; RU 2410599 C2 20110127; ZA 200705847 B 20080730

DOCDB simple family (application)  
**US 2006001185 W 20060112**; AU 2006204840 A 20060112; BR PI0606693 A 20060112; CA 2594739 A 20060112; CN 200680005070 A 20060112; DK 06718277 T 20060112; EP 06718277 A 20060112; ES 06718277 T 20060112; HU E06718277 A 20060112; JP 2007551388 A 20060112; KR 20077017063 A 20060112; MX 2007008516 A 20060112; NO 20073886 A 20070724; PL 06718277 T 20060112; PT 06718277 T 20060112; RU 2007144255 A 20060112; ZA 200705847 A 20070713