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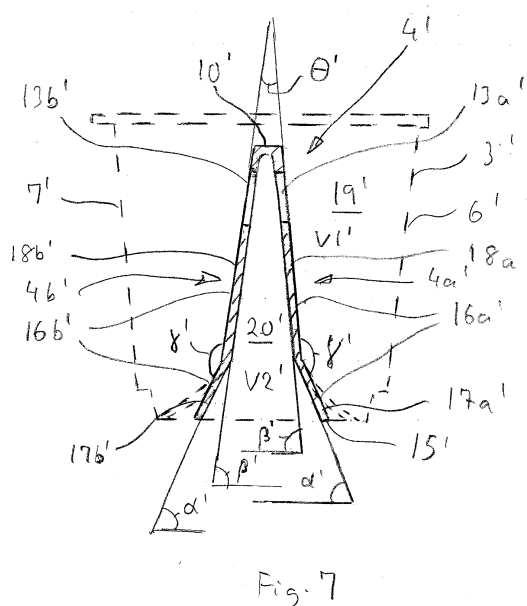
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(54) **Burner for solid fuel, and furnace**

(57) The invention relates to a burner for solid fuel, particularly for pellets, the burner comprising a body (3') and a grate (4'). To enable burning of pellets with a clam flame and yet at low emissions, the grate (4') comprises an oblique grate surface (16a', 16b') defining an underlying air flow space (20') and an overlying fuel space (19') extending all the way to the top end of the body (3'), the grate (4') extending from a first end wall of the body (3') to a second end wall opposite to the first one, the top end (10') of the grate comprising first air openings (13a', 13b') arranged to extend in the longitudinal direction of the grate (4') from the first end of the grate to the second end opposite to the first one, the air openings being formed so as to allow flow of air from the air flow space (20') to the top end of the fuel space (19'), and the grate (4') comprising second air openings (14a', 14b') arranged to extend underneath the first air openings (13a', 13b') in the longitudinal direction of the grate (4') from a first end of the bottom end (15') of the grate to a second end opposite to the first one. The invention also relates to a furnace.





EUROPEAN SEARCH REPORT

Application Number
EP 10 19 1680

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	EP 1 331 439 A1 (TULIKIVI OYJ [FI]) 30 July 2003 (2003-07-30)	1,2, 12-18	INV. F23B60/02
Y	* paragraphs [0001], [0011]; figures	3-6	
A	1-3,5-8 * * paragraphs [0017] - [0021], [0025], [0027] * * paragraph [0030] *	7-11	
Y	DE 20 2005 016038 U1 (CALIMAX ENTWICKLUNGS & VERTRIE [AT]) 29 March 2007 (2007-03-29)	3-6	
A	* paragraphs [0001], [0002], [0005], [0006]; figures 3a-3d, 4a-4d * * paragraph [0043] - paragraph [0049] *	8	
A	US 1 782 947 A (VASEY GEORGE F) 25 November 1930 (1930-11-25) * page 1, line 1 - line 5; figures 1,2 * * page 2, line 92 - line 109 *	1,2,7	
			TECHNICAL FIELDS SEARCHED (IPC)
			F23B F23H F23J
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 22 October 2014	Examiner Hauck, Gunther
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82