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HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR,  
KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME,  
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## Declarations under Rule 4.17:

— as to the identity of the inventor (Rule 4.17(i))

[Continued on next page]

(54) Title: COMBUSTION PROCESS EXHAUST GAS CLEANING DEVICE

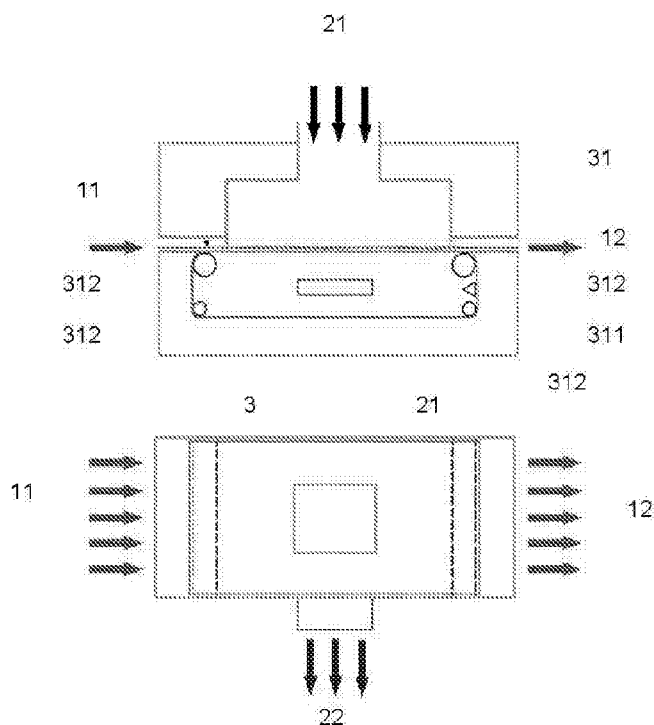


Fig. 1

(57) Abstract: The present invention concerns a combustion process exhaust gas cleaning device that forms an enclosed space fitted with a cleaning material inlet port (11), an exhaust gas inlet (21) connected to the exhaust from the combustion process and a cleaned exhaust gas outlet port (22), as well as a cleaning material endless belt conveyor (3) with a conveyor belt (31) made of an air permeable material and located in the space between the exhaust gas inlet (21) and the cleaned exhaust gas outlet port (22), with said endless belt conveyor (3) being further equipped with a variable drive and said enclosed space being further fitted with the used cleaning material outlet (12). The device increases the overall efficiency of the power equipment on average by 1 to 8%. It is intended primarily for power plants, heating plants but also for industrial companies having their own combustion devices. A good example are sugar refineries, pulp producing plants, paper mills and plants for wood processing and particle board manufacture.



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- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))* — *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*
- *of inventorship (Rule 4.17(iv))*

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## A. CLASSIFICATION OF SUBJECT MATTER

INV. F23J15/02 F23J15/04 F23G5/04  
ADD.

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

F23G F23J F23B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-Internal, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages                                             | Relevant to claim No. |
|-----------|--------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| X         | US 4 539 916 A (PAOLUCCIO JOHN A [US])<br>10 September 1985 (1985-09-10)<br>column 3, line 46 - column 4, line 32;<br>figure 3 | 1-7                   |
| X         | US 2 639 780 A (HARDY GORDON W)<br>26 May 1953 (1953-05-26)<br>the whole document                                              | 1-7                   |
| X         | DE 35 22 820 A1 (DURAS HERBERT [DE])<br>2 January 1987 (1987-01-02)<br>the whole document                                      | 1-7                   |
| X         | US 2008/105120 A1 (BERRY MARK SIMPSON [US]<br>ET AL) 8 May 2008 (2008-05-08)<br>paragraphs [0034], [0036]; figure 4            | 1-7                   |
|           | -/--                                                                                                                           |                       |



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Date of the actual completion of the international search

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages                                                   | Relevant to claim No. |
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| X         | DE 36 44 381 A1 (BERLIN CONSULT GMBH [DE])<br>7 July 1988 (1988-07-07)<br>column 6, line 40 - column 7, line 7;<br>figure 2<br>----- | 1-7                   |
| X         | EP 0 546 250 A2 (FREUDENBERG CARL FA [DE])<br>16 June 1993 (1993-06-16)<br>the whole document<br>-----                               | 1-7                   |

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/SK2012/050003

| Patent document<br>cited in search report | Publication<br>date | Patent family<br>member(s) | Publication<br>date                                                                                                                                                                                                      |
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