

Title (en)  
ELECTROSTATIC PRECIPITATOR UNIT WITH HEAT SHIELD PLATE AND MEANS FOR COOLING BY CONVECTION

Title (de)  
ELEKTROSTATISCHE ABSCHIEDEREINHEIT MIT HITZESCHILDPLATTE UND MITTEL ZUR KÜHLUNG DURCH KONVEKTION

Title (fr)  
UNITÉ DE PRÉCIPITATION ÉLECTROSTATIQUE AVEC PLAQUE DE PROTECTION THERMIQUE ET MOYENS DE REFROIDISSEMENT PAR CONVECTION

Publication  
**EP 4414080 A1 20240814 (EN)**

Application  
**EP 23156073 A 20230210**

Priority  
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Abstract (en)  
The invention relates to an electrostatic precipitator unit (1) for insertion in a flue gas passageway. It comprises a pipe (4) in which a discharge electrode (5) is arranged, a high voltage generator (6) for providing an electric field being generated in a region around the discharge electrode, and a controller (8). A casing (9) extending from the pipe comprises a first compartment (101) adjacent to the pipe, and a second compartment (102) at a distance from the pipe and separated from the first compartment by a heat shield plate (103). The controller and the high voltage generator are arranged in the second compartment or in a third compartment (108). The walls of the casing are provided with ventilation holes (110,111) arranged to cause a flow of air along the second compartment as a result of thermal convection caused by hot flue gas flowing in the flow passage during use of the electrostatic precipitator unit.

IPC 8 full level  
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CPC (source: EP)  
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Citation (search report)  
• [XYI] EP 3492174 A1 20190605 - PHX INNOVATION APS [DK]  
• [Y] EP 2551018 A2 20130130 - MUELLER BEAT [CH], et al  
• [Y] US 2711224 A 19550621 - PIERRE HERBER  
• [Y] US 4077783 A 19780307 - HONACKER HORST  
• [Y] US 4675029 A 19870623 - NORMAN DAN A [US], et al

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