

Title (en)  
COMBUSTION DEVICE

Title (de)  
VERBRENNUNGSVORRICHTUNG

Title (fr)  
DISPOSITIF DE COMBUSTION

Publication  
**EP 2738459 A4 20150415 (EN)**

Application  
**EP 11870296 A 20111005**

Priority  
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Abstract (en)  
[origin: EP2738459A1] The present invention pertains to a combustion device which is mounted to a wood boiler or the like and generates high thermal power while decreasing soot by means of a simple structure. According to the present invention, a combustion device comprises: a burner main body (10) having a porous plate (12) which is formed inside and on which injected fuel is stacked; a fuel injection hole (14) communicating with one side of the upper portion of the burner main body (10); a first air supply section (18) communicating with the lower portion of the porous plate (12) of the burner main body (10) and supplying air; an ignition section (20) formed to be adjacent to the porous plate (12) of the burner main body (10) and igniting the fuel; a flame discharge hole (24) extending from the other side of the upper portion of the burner main body (10) and discharging flame and heat caused by combustion; a cyclone section (30) formed in the shape of a short cylinder and expanding in a lateral direction from the outer peripheral surface of the flame discharge hole (24) so as to partially expand the flame discharge hole (24); and a second air supply section (32) communicating with one side of the periphery of the cyclone section (30) and supplying atmospheric air to the cyclone section (30) in a tangential direction.

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Citation (search report)  
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