

Title (en)
HEATING FURNACE WITH GAS AND/OR OIL FIRING

Title (de)
HEIZOFEN MIT GAS- UND/ODER ÖLFEUERUNG

Title (fr)
FOUR BRULEUR AVEC FOYER A GAZ ET/OU A HUILE

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Abstract (en)
[origin: WO9927310A1] According to the invention, the heating furnace has a combustion chamber (2) and heat accumulating bodies which surround said chamber. Each first heat accumulating body (3, 4; 27) is arranged parallel to the respective wall (5, 6; 24) of the combustion chamber (2) at a first distance. Each second heat accumulating body (12, 14; 25) is also placed parallel to the respective outer side of the first heat accumulating body at a second distance. A first air canal (16, 17; 28) is obtained as a result of the first distance, and a second air canal (15, 18, 26) is obtained in each of the configurations as a result of the second distance. The air in the first air canal is heated by the walls of the combustion chamber, ascends, cools on the surrounding heat accumulating bodies and descends downwards in the second air canal to the heat accumulating bodies during additional delivery of heat. Afterwards, the cooled air returns to the first air canal and the described cyclic flow begins again in the inventive heat exchanger.

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