

Title (en)  
REFLECTION TYPE OIL BURNING APPLIANCE

Title (de)  
ÖLBRENNVORRICHTUNG DER RÜCKSTRAHLART

Title (fr)  
APPAREIL DE CHAUFFAGE A HUILE DU TYPE A REFLEXION

Publication  
**EP 1548370 B1 20180502 (EN)**

Application  
**EP 03788029 A 20030801**

Priority  
• JP 0309827 W 20030801  
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• JP 2003188765 A 20030630

Abstract (en)  
[origin: EP1548370A1] The present invention provides a reflection-type oil burner in which a temperature of an upper wall of a frame body can be kept low and radiation efficiency is improved. A combustion-cylinder structure 3 and a reflection plate 4 are provided in a frame body 1. A lower heat-shielding plate 5b is provided between the reflection plate 4 and the upper wall 1E in such a manner that the distance between the lower heat-shielding plate 5b and a partition wall 8 at a side of an opening portion 2 is longer than that at a side of reflection plate 4. Heat ray emitted from the combustion-cylinder structure 3 is reflected by an inclined lower heat-shielding plate 5b and radiates in a forward direction from the frame body 1 through the opening portion 2. Radiation heat radiated by the lower heat-shielding plate 5b, which is to be at high temperature, radiates through the opening portion 2 in a forward direction of the frame body 1. A combustion-gas collision member 6 for blocking a flow of combustion gas running out of the combustion-cylinder structure 3 is provided at the lower heat-shielding plate 5b. Cool air entering through an inlet 1b at a rear wall 1B of the frame body 1 is guided between the upper heat-shield plate 5a and the lower heat-shield plate 5b in a forward direction from the frame body 1. The combustion gas diffuses when flowing over the combustion-gas collision member 6 and lowers its temperature. The combustion gas runs out in a forward direction of the frame body 1 at the end of the lower heat-shielding plate 5b along air running out of the outlet 1a. <IMAGE>

IPC 8 full level  
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