

Title (en)

Gas-heated laundry dryer with heating device

Title (de)

Gasbeheizter Wäschetrockner mit Heizungseinrichtung

Title (fr)

Sèche-linge chauffé au gaz avec dispositif de chauffage

Publication

EP 2024555 A1 20090218 (DE)

Application

EP 06753661 A 20060517

Priority

EP 2006004636 W 20060517

Abstract (en)

[origin: WO2007131531A1] Heating device (5), in particular for a laundry dryer, with a gas burner (11) and a valve (25) with a gas nozzle, to which primary air can be ducted for the formation of flames, a tubular heating channel (16) which encloses the flame (18) to the inlet opening (15) of which secondary air can be ducted as combustion air and at the outlet opening (19) of which tertiary air can be mixed with the hot gases, the outlet opening (19) of said heating channel (16) opening into an air channel (3) for the process air. In order to design a gas-heated heating device for a heating operation which generates as low a level of harmful substances as possible, and which is as noise-free as possible, which can be built economically, and which can be installed in a laundry dryer with as little assembly effort as possible, a ring-shaped diaphragm (20) is located in the outlet opening (19) of the heating channel (16). In addition, a bracket (24) for the valve (25) and for the gas burner (11) is fastened in the lower area of the inlet opening of the heating channel (16) as an extension of the lower surface line and positions the gas burner (11) in the inlet opening (15) of the heating channel (16), the bracket (24) being configured with a fastening support (26), in particular for the mounting of the entire heating device (5) in a laundry dryer. In addition, a fixing plate (27) is located in the upper portion of the heating channel (16) as an extension of the upper surface line and secures the gas burner (11) in the vertical cross-sectional plane (34) of the heating channel.

IPC 8 full level

D06F 58/26 (2006.01); **F26B 23/02** (2006.01); **D06F 58/50** (2020.01)

CPC (source: EP US)

D06F 58/263 (2013.01 - EP US); **F26B 23/02** (2013.01 - EP US); **D06F 58/50** (2020.02 - EP US); **D06F 2103/32** (2020.02 - EP US)

Citation (search report)

See references of WO 2007131531A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

WO 2007131531 A1 20071122; AT E483846 T1 20101015; AT E496163 T1 20110215; DE 502006008052 D1 20101118; DE 502006008787 D1 20110303; EP 2024555 A1 20090218; EP 2024555 B1 20101006; EP 2186935 A1 20100519; EP 2186935 B1 20110119; ES 2348909 T3 20101216; ES 2356037 T3 20110404; US 2009183386 A1 20090723; US 8161961 B2 20120424

DOCDB simple family (application)

EP 2006004636 W 20060517; AT 06753661 T 20060517; AT 10001075 T 20060517; DE 502006008052 T 20060517; DE 502006008787 T 20060517; EP 06753661 A 20060517; EP 10001075 A 20060517; ES 06753661 T 20060517; ES 10001075 T 20060517; US 30113606 A 20060517