

Title (en)  
SOLID FUEL HEATER WITH THREE-ZONE COMBUSTION AIR SUPPLY

Title (de)  
FESTBRENNSTOFFHEIZER MIT DREI-ZONEN-VERBRENNUNGSLUFTZUFUHR

Title (fr)  
DISPOSITIF DE CHAUFFAGE À COMBUSTIBLES SOLIDES AYANT UNE ALIMENTATION EN AIR DE COMBUSTION À TROIS ZONES

Publication  
**EP 3765792 B1 20240612 (EN)**

Application  
**EP 19766636 A 20190311**

Priority  
• CZ 2018122 A 20180312  
• CZ 2019000013 W 20190311

Abstract (en)  
[origin: WO2019174655A1] The solid fuel heater with three-zone combustion air supply, containing the lower outlet orifice (16) of the lower primary air, the upper outlet orifice (11) of the upper primary air, the outlet orifice (12) and the inlet orifice (14.3) of the secondary air, whereas the secondary air between the inlet orifice (14.3) and the outlet orifice (12) runs in the independent vent (9); in addition, contains the first inlet orifice (14.1) of the lower primary and the second inlet orifice (14.2) of the upper primary air, whereas the lower primary air between the first inlet orifice (14.1) and the lower outlet orifice (16) runs in the independent vent (10) and the upper primary air between the second inlet orifice (14.2) and the upper outlet orifice (11) runs in the independent vent (3). The damper (13), attached to the arm (7), is assigned to each inlet orifice (14.1, 14.2 and 14.3), whereas the arm (7) is connected to the shaft (8), whereas the inlet orifices (14.1, 14.2 and 14.3) are equipped with their common moving orifice (5). The inlet orifices (14.1, 14.2 and 14.3) are located on the distributor (4), fixed to the external side of the heater (100), whereas the shaft (8) is located outside said distributor (4).

IPC 8 full level  
**F23N 3/02** (2006.01); **F23B 10/00** (2011.01); **F23L 1/00** (2006.01); **F23L 9/00** (2006.01); **F23L 13/00** (2006.01)

CPC (source: CZ EP RU)  
**F23B 10/02** (2013.01 - CZ EP RU); **F23B 50/06** (2013.01 - EP); **F23B 90/06** (2013.01 - EP); **F23L 1/00** (2013.01 - EP); **F23L 3/00** (2013.01 - EP); **F23L 9/06** (2013.01 - EP); **F23L 13/00** (2013.01 - EP); **F23N 3/002** (2013.01 - EP); **F23N 3/007** (2013.01 - CZ); **F23N 5/006** (2013.01 - EP); **F24B 5/026** (2013.01 - EP); **F23B 2900/00001** (2013.01 - EP); **F23N 2235/06** (2020.01 - EP)

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2019174655 A1 20190919**; CZ 2018122 A3 20190703; CZ 307859 B6 20190703; EP 3765792 A1 20210120; EP 3765792 A4 20211222; EP 3765792 B1 20240612; EP 3765792 C0 20240612; RU 2754480 C1 20210902; UA 124798 C2 20211117

DOCDB simple family (application)  
**CZ 2019000013 W 20190311**; CZ 2018122 A 20180312; EP 19766636 A 20190311; RU 2020129207 A 20190311; UA A202005381 A 20190311