

Title (en)

Pellet boiler with high energy recovery

Title (de)

Kessel für Pelletbrennstoff mit hoher Energierückgewinnung

Title (fr)

Chaudière à combustible granulé à haute récupération d'énergie

Publication

**EP 1734303 B1 20140611 (EN)**

Application

**EP 06114199 A 20060519**

Priority

IT TV20050086 A 20050617

Abstract (en)

[origin: EP1734303A2] A pellet boiler (1), comprising a combustion chamber (7) which is delimited at the rear by a first wall (8) and at the front by a second wall (9) and contains in a lower region a hearth (17), which is provided with means (18) for feeding secondary combustion-supporting air from outside into the combustion chamber (7), which comprise an interspace (23) arranged above the hearth and adjacent to the first wall. A heat exchanger (29) is also present and is arranged above and to the rear of the combustion chamber for the recovery of the combustion gases and for a heat transfer medium, to the rear of which a hopper (12) for the pellets is arranged adjacent, the hopper being provided in a lower region with means for feeding the hearth and, in an upper region, with a lid which can be removed and opened laterally. Means for the forced input of heated air into the environment are provided.

IPC 8 full level

**F23B 40/08** (2006.01); **F23B 50/12** (2006.01); **F23L 9/00** (2006.01); **F24B 1/02** (2006.01); **F24H 6/00** (2006.01)

CPC (source: EP US)

**F23B 40/08** (2013.01 - EP US); **F23B 50/12** (2013.01 - EP); **F23L 9/00** (2013.01 - EP US); **F24B 1/024** (2013.01 - EP); **F24H 6/00** (2013.01 - EP); **F24H 2230/00** (2013.01 - EP)

Cited by

ITMI20100204A1; ITUB20152314A1; FR2947328A1; US7823578B2; IT202200003668A1; EP1933093A1; ITBS20080142A1; ITCZ20100007A1; ES2540153A1; FR3019272A1; JPWO2014068887A1; EP2103872A1; ITBS20100193A1; ITUB20152597A1; IT201800007325A1; WO2010092410A3; WO2015052364A1; WO2014068887A1; US9500159B2; WO2016092316A1; WO2009115969A1; WO2012073199A1

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**EP 1734303 A2 20061220; EP 1734303 A3 20080423; EP 1734303 B1 20140611; IT TV20050086 A1 20061218**

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