

Title (en)
Fluidized bed combustion chamber.

Title (de)
Brennkammer mit Wirbelbett.

Title (fr)
Chambre de combustion à lit fluidisé.

Publication
EP 0041648 A2 19811216 (EN)

Application
EP 81104066 A 19810527

Priority
SE 8004192 A 19800605

Abstract (en)
A fluidized bed combustion chamber (2), preferably enclosed within a pressure vessel (1) and intended to operate under overpressure, having a preferably plane bottom (7) with a plurality of openings or nozzles for the supply of combustion air. The substantially rectangular combustion chamber (2) is formed at its lower portion with two or more parallel grooves (4) with downwardly converging side walls (5) and with a depth which is substantially equal to the height of the bed during normal operation, and that above the grooves (4) there is a common gas collecting space (11). The inclination-angle of the side walls is between 3 DEG and 15 DEG . The ratio between the top and bottom areas of the grooves (4) is between 1.3 and 3.0.

IPC 1-7
F23C 11/02

IPC 8 full level
B01J 8/24 (2006.01); **F23C 10/16** (2006.01); **F27B 15/00** (2006.01)

CPC (source: EP)
F23C 10/16 (2013.01)

Cited by
US4864944A; USRE33230E; EP0281165A1; US4817563A; US4760817A; DE3221567A1; US4545959A; WO8900660A1; WO8706678A1

Designated contracting state (EPC)
CH DE FR GB

DOCDB simple family (publication)
EP 0041648 A2 19811216; EP 0041648 A3 19820407; EP 0041648 B1 19840829; DE 3165755 D1 19841004; JP S5727125 A 19820213; SE 438028 B 19850325; SE 8004192 L 19811206

DOCDB simple family (application)
EP 81104066 A 19810527; DE 3165755 T 19810527; JP 8631381 A 19810604; SE 8004192 A 19800605