

Title (en)
Cocurrent Shaft Reactor

Title (de)
Gleichstrom-Schacht-Reaktor

Title (fr)
Réacteur vertical à cocourant

Publication
EP 1338847 B1 20060329 (DE)

Application
EP 03001006 A 20030117

Priority
DE 20200935 U 20020123

Abstract (en)
[origin: EP1338847A1] A direct flow shaft reactor comprises a vertical shaft body (10) having a drying zone (14) for drying and heating the waste material, a degasifying zone (16) connected to the drying zone for degasifying the waste material, and a gasifying zone (18) for gasifying the waste material; a receiving body (20) connected to the shaft body for receiving molten waste material; and a gas removal unit (26) connected to the shaft body and/or the receiving body for removing the gases produced. Several gas feeding units (46) are provided in the transport direction of the waste material in the gasifying zone for feeding a gas into the degasifying zone. Preferred Features: The gas feeding units are uniformly distributed, preferably in a horizontal plane. Additional gas feeding units are provided in the drying zone and/or in the gasifying zone. The shaft body is cylindrical.

IPC 8 full level
F23G 5/24 (2006.01); **F23C 5/28** (2006.01); **F23G 5/027** (2006.01); **F23G 5/04** (2006.01); **F23G 5/16** (2006.01); **F23M 5/08** (2006.01); **F27B 1/08** (2006.01); **F27B 1/10** (2006.01); **F27B 1/16** (2006.01); **F27D 3/16** (2006.01); **F27D 17/00** (2006.01); **F27D 19/00** (2006.01)

CPC (source: EP)
C10J 3/08 (2013.01); **C10J 3/26** (2013.01); **C10J 3/723** (2013.01); **F23C 5/28** (2013.01); **F23G 5/0276** (2013.01); **F23G 5/04** (2013.01); **F23G 5/16** (2013.01); **F23G 5/24** (2013.01); **F23M 5/08** (2013.01); **F27B 1/10** (2013.01); **F27B 1/16** (2013.01); **F27D 3/16** (2013.01); **F27D 17/001** (2013.01); **C10J 2200/152** (2013.01); **C10J 2200/156** (2013.01); **C10J 2300/0943** (2013.01); **C10J 2300/0946** (2013.01); **C10J 2300/0996** (2013.01); **C10J 2300/1634** (2013.01); **F23G 2201/10** (2013.01); **F23G 2202/20** (2013.01); **F23G 2204/103** (2013.01); **F23G 2205/16** (2013.01); **F23G 2900/50009** (2013.01); **F27D 2019/0006** (2013.01)

Cited by
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DOCDB simple family (publication)
EP 1338847 A1 20030827; **EP 1338847 B1 20060329**; AT E321978 T1 20060415; DE 20200935 U1 20030528; DE 50302772 D1 20060518; ES 2261800 T3 20061116; SI 1338847 T1 20061031

DOCDB simple family (application)
EP 03001006 A 20030117; AT 03001006 T 20030117; DE 20200935 U 20020123; DE 50302772 T 20030117; ES 03001006 T 20030117; SI 200330322 T 20030117