

Title (en)

Gasification reactor with cooled shield around burner

Title (de)

Vergasungsreaktor mit gekühltem Schild um den Brenner

Title (fr)

Réacteur de gazéification doté d'un blindage refroidi autour du brûleur

Publication

**EP 2006357 A1 20081224 (EN)**

Application

**EP 07110873 A 20070622**

Priority

EP 07110873 A 20070622

Abstract (en)

Vertical elongated reactor vessel (1) provided at its inner side with a layer of refractory brick work (2) and at its upper end with a downwardly directed burner (3) as present in an opening through the wall of the vessel (1) and through an opening in the brick work (4), wherein the refractory brick work comprises a shield (5), which shield (5) extends substantially downwardly from the wall of the vessel (1) or from an optional flange (6) which flange (6) fixes the burner to the vessel, and which shield (5) is positioned around the burner (3), and which shield (5) is provided with passages (7) for a cooling medium, an inlet (8) for supply of a fresh cooling medium to said passages, and an outlet (9) for discharge of used cooling medium from the said passages (7).

IPC 8 full level

**C10J 3/76** (2006.01); **C10J 3/48** (2006.01); **F23M 5/02** (2006.01); **F23M 5/08** (2006.01)

CPC (source: EP)

**C10J 3/30** (2013.01); **C10J 3/50** (2013.01); **C10J 3/74** (2013.01); **F23D 14/76** (2013.01); **F23D 14/78** (2013.01); **F23M 5/025** (2013.01); **F23M 5/08** (2013.01); **C10J 2200/09** (2013.01); **C10J 2200/152** (2013.01); **F23M 2900/05021** (2013.01)

Citation (search report)

- [XY] US 4437415 A 19840320 - SPIELMAN LYLE S [US]
- [Y] US 3874592 A 19750401 - BUSCHMANN KARL, et al
- [A] US 5954491 A 19990921 - HELTON WOODWARD CLINTON [US], et al
- [A] US 3048481 A 19620807 - BOIS EASTMAN DU
- [A] US 4547203 A 19851015 - JAHNKE FREDERICK C [US]

Cited by

CN113897223A; CN103820162A; CN102146300A; EP4310394A1; US8858660B2; WO2010083008A3

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 MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

**EP 2006357 A1 20081224**

DOCDB simple family (application)

**EP 07110873 A 20070622**