

Title (en)
CARBONACEOUS SOLID FUEL GASIFIER

Title (de)
GASGENERATOR, DER MIT FESTEM KOHLENSTOFFBRENNSTOFF FUNKTIONIERT

Title (fr)
GAZEIFIEUR DE COMBUSTIBLE SOLIDE CARBONE

Publication
EP 2723832 B1 20170621 (FR)

Application
EP 12732595 A 20120622

Priority
• EP 11171156 A 20110623
• EP 2012062060 W 20120622
• EP 12732595 A 20120622

Abstract (en)
[origin: WO2012175657A1] The invention relates to a gasifier for solid carbon fuel comprising a vertical vat (4), said vat comprising, in series from top to bottom: an inlet (5) for a solid carbon fuel (2) to be gasified; an area (10) for pyrolyzing said fuel so as to produce pyrolysis gases and char; an area (20) for combusting the pyrolysis gases; an area (30) for reducing the char; a gas outlet (6); and an ash-collecting area (40). The pyrolysis area (10) is separated from the combustion area (20) by an active transfer means comprising a transfer airlock (50) capable of transferring the fuel (2) from the pyrolysis area (10) to the reduction area (30) with said fuel being unable to flow directly from the pyrolysis area (10) to the reduction area (30), thus enabling better control of the flow rate of solid matter between said two areas.

IPC 8 full level
C10J 3/32 (2006.01); **C10J 3/02** (2006.01); **C10J 3/26** (2006.01); **C10J 3/28** (2006.01); **C10J 3/30** (2006.01); **C10J 3/34** (2006.01); **C10J 3/40** (2006.01); **C10J 3/42** (2006.01); **C10J 3/52** (2006.01); **C10J 3/66** (2006.01); **C10J 3/72** (2006.01)

CPC (source: EP US)
C10J 3/02 (2013.01 - EP US); **C10J 3/26** (2013.01 - EP US); **C10J 3/28** (2013.01 - EP US); **C10J 3/30** (2013.01 - EP US); **C10J 3/32** (2013.01 - EP US); **C10J 3/34** (2013.01 - US); **C10J 3/40** (2013.01 - EP US); **C10J 3/42** (2013.01 - EP US); **C10J 3/52** (2013.01 - US); **C10J 3/66** (2013.01 - EP US); **C10J 3/721** (2013.01 - US); **C10J 3/723** (2013.01 - EP US); **C10J 2200/158** (2013.01 - EP US); **C10J 2300/0916** (2013.01 - US); **C10J 2300/0943** (2013.01 - US)

Citation (examination)
US 4156394 A 19790529 - KUHNERT DIETER [DE], et al

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 2012175657 A1 20121227; CA 2840219 A1 20121227; EP 2723832 A1 20140430; EP 2723832 B1 20170621; HR P20171055 T1 20171006; JP 2014520189 A 20140821; JP 6008306 B2 20161019; SI 2723832 T1 20170929; US 2014102000 A1 20140417; US 2016083661 A1 20160324; US 9228143 B2 20160105; US 9926500 B2 20180327

DOCDB simple family (application)
EP 2012062060 W 20120622; CA 2840219 A 20120622; EP 12732595 A 20120622; HR P20171055 T 20170711; JP 2014516361 A 20120622; SI 201230995 T 20120622; US 201314138586 A 20131223; US 201514956997 A 20151202