

Title (en)
Method for processing furnace-bottom residue produced in gasification and slagging combustion furnace

Title (de)
Verfahren zur Behandlung von Ofenbodenrückständen von Vergasung und Verschlackungsöfen

Title (fr)
Procédé de traitement des résidus de fond de fours de gazeification et scorification

Publication
EP 1076206 A1 20010214 (EN)

Application
EP 00117221 A 20000811

Priority
• JP 22913599 A 19990813
• JP 25936499 A 19990913
• JP 25936599 A 19990913

Abstract (en)
A gasification and slagging combustion furnace comprises a fluidized-bed gasification furnace (1) as a preceding stage and a slagging combustion furnace (2) as a succeeding stage. The recovered fluidized medium (d) is transferred to the fluidized-bed gasification furnace where the fluidized medium is reused. A metal component (a,b,c) is separated and recovered from the furnace-bottom residue. A nonmetal component is utilized after matter comprising the nonmetal component is rubbed with one another to remove contaminants from the surface of the matter, or after removing by a screen a powder component contained inherently in the nonmetal component and a powder component produced upon crushing of the nonmetal component. Alternatively, a nonmetal component is crushed to produce powder (e), the produced powder is transferred to the fluidized-bed gasification furnace, and then to the slagging combustion furnace where slagging is performed.

IPC 1-7
F23C 10/26; **F23C 10/10**; **C10J 3/52**; **C10J 3/54**

IPC 8 full level
C10J 3/54 (2006.01); **F23C 10/10** (2006.01); **F23C 10/26** (2006.01); **F23G 5/00** (2006.01)

CPC (source: EP KR)
C10J 3/463 (2013.01 - EP); **C10J 3/54** (2013.01 - EP); **F23C 10/10** (2013.01 - EP); **F23C 10/26** (2013.01 - EP); **F23G 5/00** (2013.01 - KR); **C10J 2300/1628** (2013.01 - EP); **C10J 2300/1631** (2013.01 - EP)

Citation (search report)
• [A] EP 0676464 A2 19951011 - EBARA CORP [JP]
• [A] GB 2026144 A 19800130 - BABCOCK AG
• [A] US 4329324 A 19820511 - JONES BRIAN C
• [A] US 4974531 A 19901204 - KORENBERG JACOB [US]
• [A] US 5099801 A 19920331 - SCHOLL GERHARD [DE], et al
• [A] GB 2124101 A 19840215 - ENVIRONMENT AND MECHANICAL SER
• [A] PATENT ABSTRACTS OF JAPAN vol. 012, no. 289 (M - 728) 8 August 1988 (1988-08-08)

Cited by
CN109827172A; CN104588389A; DE102005038958A1; CN113751192A; AU2016280606B2; US11629390B2; US11970754B2

Designated contracting state (EPC)
CH DE DK FR IT LI NL

DOCDB simple family (publication)
EP 1076206 A1 20010214; CN 1185438 C 20050119; CN 1284623 A 20010221; KR 20010021279 A 20010315

DOCDB simple family (application)
EP 00117221 A 20000811; CN 00121280 A 20000814; KR 20000046654 A 20000811