

Title (en)

Process for the preparation of synthesis gas.

Title (de)

Verfahren zur Herstellung von Synthesegas.

Title (fr)

Procédé pour la préparation de gaz de synthèse.

Publication

**EP 0040868 A1 19811202 (EN)**

Application

**EP 81200474 A 19810504**

Priority

NL 8002989 A 19800523

Abstract (en)

Gasifier wherein coal dust is introduced from at least one passage in its sidewall and oxygen-containing blast is introduced essentially perpendicular to the coal flow, preferably from below, so as to form a horizontal flat disc. The contact between the hot slag falling down in the bottom of the reactor and the oxygen causes a carbon-free slag and some preheating of the blast. Since burners are not used in the present gasifier difficulties of flashback and flame impingement are obviated. Moreover, the coal gasification is more efficient, because carbon remained in the slag is completely combusted while falling down through the rising oxygen stream.

IPC 1-7

**C10J 3/54**; C10J 3/56; C10J 3/50

IPC 8 full level

**C10J 3/50** (2006.01); **C10J 3/54** (2006.01); **C10J 3/56** (2006.01)

CPC (source: EP)

**C10J 3/506** (2013.01); **C10J 3/54** (2013.01); **C10J 3/56** (2013.01); **C10J 2300/1846** (2013.01)

Citation (search report)

- US B541376 I5 19760217
- LU 29330 A1
- DE 880623 C 19530622 - SCHMALFELDT HANS
- US 4200495 A 19800429 - LISS BARRY [US], et al

Designated contracting state (EPC)

DE GB NL

DOCDB simple family (publication)

**EP 0040868 A1 19811202**; **EP 0040868 B1 19840801**; AU 541700 B2 19850117; AU 7090381 A 19811126; CA 1173250 A 19840828; DE 3165192 D1 19840906; ZA 813409 B 19820630

DOCDB simple family (application)

**EP 81200474 A 19810504**; AU 7090381 A 19810521; CA 375158 A 19810324; DE 3165192 T 19810504; ZA 813409 A 19810521