

Title (en)  
PROCESS FOR GASIFYING FUEL WITH OXYGEN IN A SHAFT FURNACE

Publication  
**EP 0277935 B1 19911106 (DE)**

Application  
**EP 88890012 A 19880125**

Priority  
AT 17787 A 19870129

Abstract (en)  
[origin: US4776285A] When gasifying fuels with oxygen in a shaft-like furnace adapted to receive solid charging stock and including a primary gas chamber on its lower end to be charged by at least one burner, a fixed bed is formed in the primary gas chamber by the charging stock. The charging stock is gasified by the hot offgases from the burner. The gas forming, upon passage through the fixed bed, is extracted from the furnace as a product gas. In order to keep the product gas free of impurities that constitute a load on the environment and limit its usability, such as tar and other higher hydrocarbons, an oxygen-containing gas is injected into the furnace space filled by the product gas and a slight portion of the product gas is burnt.

IPC 1-7  
**C10J 3/08**; **C10J 3/16**; **C10J 3/20**

IPC 8 full level  
**C10J 3/02** (2006.01); **C10J 3/08** (2006.01); **C10J 3/16** (2006.01); **C10J 3/20** (2006.01)

CPC (source: EP US)  
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**C10J 2200/152** (2013.01 - EP US); **C10J 2200/158** (2013.01 - EP US); **C10J 2300/0959** (2013.01 - EP US); **C10J 2300/0976** (2013.01 - EP US);  
**C10J 2300/1223** (2013.01 - EP US)

Cited by  
EP0567449A1; IT201600100814A1; DE102004016993A1; DE102004016993B4; DE102007006979B4; DE102007006979A1; WO2018066013A1

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