

Title (en)  
CODER FOR GASES PRODUCED BY GASIFICATION

Publication  
**EP 0288686 B1 19901107 (DE)**

Application  
**EP 88103039 A 19880301**

Priority  
DE 3713912 A 19870425

Abstract (en)  
[origin: US4813382A] A cooler for gases generated from coal by gasification under pressure has a pressurized vessel (1) that accommodates an insert (5) with a polygonal cross-section made out of pipes (6) that are welded together gas-tight in conjunction with webs (7). The pipes in the insert are bent vertically in to create a roof (11) and parallel one another sector by sector with webs of uniform width. The pipes that abut at an angle at the edges of the sectors are united in pairs by forged crosstail butts (13). The crosstail butts are aligned along a straight line and completely occupy the spaces between the sectors.

IPC 1-7  
**C10J 3/86**; **F22B 1/18**

IPC 8 full level  
**C10J 3/02** (2006.01); **C10J 3/86** (2006.01); **F22B 1/18** (2006.01)

CPC (source: EP US)  
**C10J 3/86** (2013.01 - EP US); **C10J 2300/1603** (2013.01 - EP US)

Designated contracting state (EPC)  
AT CH DE FR GB IT LI NL SE

DOCDB simple family (publication)  
**US 4813382 A 19890321**; AT E58161 T1 19901115; CN 1014717 B 19911113; CN 88102438 A 19881123; DE 3713912 C1 19880721; DE 3860976 D1 19901213; EP 0288686 A2 19881102; EP 0288686 A3 19890201; EP 0288686 B1 19901107; FI 86883 B 19920715; FI 86883 C 19921026; FI 881599 A0 19880406; FI 881599 A 19881026; JP S63291987 A 19881129; ZA 882053 B 19881130

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**US 18494088 A 19880422**; AT 88103039 T 19880301; CN 88102438 A 19880423; DE 3713912 A 19870425; DE 3860976 T 19880301; EP 88103039 A 19880301; FI 881599 A 19880406; JP 8395088 A 19880405; ZA 882053 A 19880323