

Title (en)  
METHOD AND APPARATUS FOR CARBURIZING STEEL WITH A GAS

Publication  
**EP 0156378 B1 19890802 (DE)**

Application  
**EP 85103680 A 19850327**

Priority  
DE 3411605 A 19840329

Abstract (en)  
[origin: US4591132A] In the gas carburization of steel, a steel part is exposed in a carbon-enriched atmosphere of a furnace to a diffusion process to form a boundary layer with an increased carbon content, determined as a function of the distance from the surface. The values of importance for the diffusion process are determined intermittently and used as control parameters to affect the diffusion process. The flow of carbon diffusing directly through the surface of the steel part serves as the measured value. The supply of the carburizing gas is controlled as a function of this value.

IPC 1-7  
**C23C 8/06**; **C23C 8/22**

IPC 8 full level  
**C21D 1/76** (2006.01); **C23C 8/06** (2006.01); **C23C 8/22** (2006.01)

CPC (source: EP US)  
**C21D 1/76** (2013.01 - EP US); **C23C 8/22** (2013.01 - EP US)

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AT CH FR GB IT LI SE

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**EP 85103680 A 19850327**; AT 85103680 T 19850327; DE 3411605 A 19840329; JP 6219385 A 19850328; US 71480285 A 19850322