

Title (en)  
Process and apparatus for adjusting the carbon monoxide concentration of a furnace atmosphere for carburizing or nitrocarburizing of metallic parts

Title (de)  
Verfahren und Vorrichtung zur Regelung des CO-Gehaltes einer Ofenatmosphäre zum Aufkohlen und Carbonitrieren metallischer Werkstücke

Title (fr)  
Procédé et installation pour le réglage de la concentration en CO de l'atmosphère d'un four pour la cémentation et carbonituration de pièces métalliques

Publication  
**EP 0738785 B1 19990331 (DE)**

Application  
**EP 96101732 A 19960207**

Priority  
DE 19514932 A 19950422

Abstract (en)  
[origin: EP0738785A1] The CO content of the atmosphere of an oven (2) supplied with a mixture of air, hydrocarbon and, if required, NH<sub>3</sub> and used for carburisation or carbonitriding of metal workpieces is regulated by a process in which the CO level is determined and a CO forming material is introduced when a min. CO content, which is freely adjustable, has been reached. Also claimed is an appts. for carrying out this process.

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

IPC 8 full level  
**C23C 8/20** (2006.01); **C23C 8/22** (2006.01); **C23C 8/30** (2006.01)

CPC (source: EP US)  
**C23C 8/22** (2013.01 - EP US)

Cited by  
CZ298996B6; CN1316055C; EP0859068A1; US6106636A

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AT CH DE ES FR GB IT LI

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**EP 0738785 A1 19961023; EP 0738785 B1 19990331**; AT E178366 T1 19990415; CA 2174409 A1 19961023; CA 2174409 C 20090623; CN 1136330 C 20040128; CN 1136597 A 19961127; DE 19514932 A1 19961024; DE 59601530 D1 19990506; ES 2129897 T3 19990616; JP H08296028 A 19961112; US 5741371 A 19980421

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**EP 96101732 A 19960207**; AT 96101732 T 19960207; CA 2174409 A 19960417; CN 96104539 A 19960411; DE 19514932 A 19950422; DE 59601530 T 19960207; ES 96101732 T 19960207; JP 10850096 A 19960404; US 63732896 A 19960422