

Title (en)
METHOD OF HEAT TREATING METALLIC PARTS BY CARBURIZATION

Publication
EP 0096602 B1 19851016 (FR)

Application
EP 83400935 A 19830509

Priority
FR 8209328 A 19820528

Abstract (en)
[origin: US4519853A] The method of carburizing steel workpieces comprises loading workpieces to be carburized in a furnace and maintaining them in a carbon enriching atmosphere comprising carbon monoxide, hydrogen and nitrogen. The treatment comprises a first phase carried out at a temperature from 850 DEG C. to 1050 DEG C. followed by a second phase carried out at a temperature from 700 DEG C. to 950 DEG C. During the first phase an atmosphere is used having a carbon potential from about 1.1% to about 1.6% by weight and during the second phase the amount of nitrogen in the atmosphere is increased from two to thirty times so that the carbon potential for the second phase is at least about 0.5% by weight less than the carbon potential for the first phase.

IPC 1-7
C23C 8/22; **C23C 8/32**

IPC 8 full level
C23C 8/22 (2006.01); **C23C 8/32** (2006.01)

CPC (source: EP US)
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Cited by
FR2712898A1; EP0213011A1; FR2586258A1; US4744839A; FR2607231A1; BE1002059A4

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