

Title (en)
NON POLLUTING PROCESS FOR CARBURIZING STEEL IN A MOLTEN SALT BATH

Publication
EP 0054962 B1 19850424 (DE)

Application
EP 81110690 A 19811222

Priority
DE 3048607 A 19801223

Abstract (en)
[origin: EP0054962A1] 1. Process for carburizing steel in a salt bath, characterised by the following process steps : a) the process container is charged with a first salt which consists of a mixture of an alkali halide and an alkaline earth halide ; b) the first salt is brought to a molten state ; c) an additional salt is added which consists of a mixture of an alkaline earth halide, an alkali ferrocyanide and an alkali cyanate, wherein the alkaline earth halide of the additional salt corresponds chemically to the alkaline earth halide of the first salt ; d) the container charge is heated to its operating temperature ; e) the workpiece to be treated is immersed in the charge in the carburizing bath and is left therein until the desired depth of carburizing is attained ; f) the workpiece is removed from the carburizing bath and, according to the type of material, is quenched in an appropriate quenching medium.

IPC 1-7
C23C 8/46

IPC 8 full level
C23C 8/46 (2006.01); **C23C 8/56** (2006.01)

CPC (source: EP)
C23C 8/46 (2013.01); **C23C 8/56** (2013.01)

Cited by
US6165597A; US6093303A; EP2055801A1; DE102006026883B3; DE102006026883B8; US7909943B2; US6461448B1; US6547888B1; US8083866B2

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EP 0054962 A1 19820630; EP 0054962 B1 19850424; AT E12951 T1 19850515; CH 647002 A5 19841228; DE 3048607 A1 19820701; DE 3048607 C2 19830707; DE 3170212 D1 19850530

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