

Title (en)

PROCESS FOR CARBURIZING FERROUS METALS

Publication

**EP 0063655 B1 19860618 (EN)**

Application

**EP 81301834 A 19810427**

Priority

EP 81301834 A 19810427

Abstract (en)

[origin: EP0063655A1] A process for carburizing steel in a furnace, using an atmosphere derived initially from decomposition of an oxygenated hydrocarbon containing up to three carbon atoms having a carbon to oxygen ratio of from 1 to 2 such as alcohols, aldehydes, ethers, esters and mixtures thereof injected into the furnace until the initial rapid stage of carburization is completed; then blending nitrogen into the oxygenated hydrocarbon atmosphere throughout the remainder of the process so as to minimize energy usage; and continually adjusting the carbon potential by addition of a hydrocarbon enriching or carburizing agent to maintain carbon potential of the furnace atmosphere within the desired limits during the entire carburizing cycle.

IPC 1-7

**C23C 8/20**

IPC 8 full level

**C23C 8/22** (2006.01)

CPC (source: EP)

**C23C 8/22** (2013.01)

Cited by

CN112899611A; EP0781858A1; DE4340060C1; DE3631389A1

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DOCDB simple family (publication)

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