

Title (en)

A non-cyanide salt bath and process for carburization of ferrous metals and alloys.

Title (de)

Cyanidfreies Salzbad und Verfahren zur Aufkohlung von eisenhaltigen Metallen und Legierungen.

Title (fr)

Bain de sel sans cyanure et procédé de carburation de métaux et alliages ferreux.

Publication

EP 0147011 A2 19850703 (EN)

Application

EP 84306336 A 19840917

Priority

US 56628883 A 19831228

Abstract (en)

A non-cyanide molten salt bath composition for the carburization of objects made of ferrous metals or alloys at a temperature in the range of 900-1050 DEG C comprises: (a) 85-99% of an alkali metal chloride or a mixture of alkali metal chlorides; (b) 0.25-8% of an activator, which is an oxygen containing compound barium and/or strontium compound and (c) sufficient amount of finely divided graphite to provide a continuous cover on the surface of the molten salt mixture. The ferrous metal or alloy part is immersed in the molten mixture at a temperature in the range of 900 DEG C to 1050 DEG C.

IPC 1-7

C23C 8/46

IPC 8 full level

C23C 8/46 (2006.01)

CPC (source: EP)

C23C 8/46 (2013.01)

Cited by

US6165597A; US6093303A; US6547888B1; US6461448B1

Designated contracting state (EPC)

BE DE FR GB IT LU NL SE

DOCDB simple family (publication)

EP 0147011 A2 19850703; EP 0147011 A3 19860326; CA 1244748 A 19881115; ES 539095 A0 19860401; ES 8606522 A1 19860401

DOCDB simple family (application)

EP 84306336 A 19840917; CA 463590 A 19840919; ES 539095 A 19841227