

Title (en)
COATED METAL SUBSTRATE AND METHOD OF COATING A METAL SUBSTRATE

Publication
EP 0074211 B1 19871104 (EN)

Application
EP 82304451 A 19820824

Priority
GB 8126928 A 19810905

Abstract (en)
[origin: EP0074211A1] A non-alloy steel is treated to provide a good keying surface for a solid polymeric or wax coating by heat treatment at 550 to 720 deg C for up to 4 hours in an atmosphere of, eg ammonia and endothermic or exothermic gas, followed by cooling to produce an epsilon iron nitride surface layer. The solid coating adheres tenaciously to the surface layer to give excellent salt spray resistance.

IPC 1-7
C23C 8/32; **C23C 8/80**; **B05D 3/10**

IPC 8 full level
C23C 8/32 (2006.01); **B05D 3/10** (2006.01); **B05D 7/14** (2006.01); **C21D 1/72** (2006.01); **C23C 8/04** (2006.01); **C23C 8/80** (2006.01); **C23C 12/00** (2006.01); **C23C 28/00** (2006.01)

CPC (source: EP)
C23C 8/80 (2013.01); **C23C 28/00** (2013.01)

Citation (examination)
• JP S55129176 A 19801006 - HONDA MOTOR CO LTD
• Dawes C. et al., Low pressure oxy-nitro-carburising at 570°C, Metallurgia and metal forming, February 1975, pages 58-60

Cited by
DE3609477A1; US4756774A; CN107109617A; CN100445032C; US5037491A; EP0122762B1

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DE FR GB IT

DOCDB simple family (publication)
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EP 82304451 A 19820824; AR 29053682 A 19820903; AU 8796882 A 19820901; BR 8205184 A 19820903; DE 3277585 T 19820824; ES 515496 A 19820904; HU 282782 A 19820903; IN 1027CA1982 A 19820904; JP 15284582 A 19820903; NZ 20181182 A 19820903; PL 23813682 A 19820903; SU 3489306 A 19820903; YU 199782 A 19820903; ZA 826202 A 19820825