

Title (en)

ORGANIC COATED STEEL STRIP HAVING IMPROVED BAKE HARDENABILITY AND METHOD FOR MAKING

Publication

**EP 0230320 B1 19910130 (EN)**

Application

**EP 87100847 A 19870122**

Priority

- JP 1322986 A 19860124
- JP 29003586 A 19861205

Abstract (en)

[origin: EP0230320A1] An organic coated steel strip having improved bake hardenability is provided which comprises an extra low carbon-steel substrate having bake hardenability, a zinc alloy layer deposited on the substrate in a weight of 10 to 40 g/m<2>, a chromate layer formed on the zinc alloy layer in a weight of at least 10 mg/m<2> of metallic chromium, and an organic coating, optionally containing silica, attached to the chromate layer. The coated strip is prepared by depositing a zinc alloy on an extra low carbon steel substrate, subjecting the substrate to a chromate treatment in an aqueous chromate solution containing a chromate compound, a reducing agent, and an acid residue, resin or silica, and applying an organic coating on the chromate layer and baking the coating at a temperature of up to 150 DEG C.

IPC 1-7

**B05D 7/14; C23C 28/00**

IPC 8 full level

**C23C 22/74** (2006.01); **C23C 22/28** (2006.01); **C23C 22/78** (2006.01); **C23C 28/00** (2006.01)

CPC (source: EP KR)

**C23C 22/28** (2013.01 - KR); **C23C 22/74** (2013.01 - KR); **C23C 22/78** (2013.01 - EP); **C23C 28/00** (2013.01 - EP)

Cited by

US6107730A; EP1449939A3; EP0308563A1; US5456953A; US2012168317A1; EP0390122A1; US5147729A; DE3836858A1

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