

Title (en)

Steel strip plated with a zinc-based coating layer containing an inorganic dispersoid.

Title (de)

Stahlband mit einem Dispersionsüberzug auf Zinkbasis und anorganischen Teilchen.

Title (fr)

Bande d'acier munie d'un revêtement composite à base de zinc et de particules minérales.

Publication

**EP 0174019 A1 19860312 (EN)**

Application

**EP 85111166 A 19850904**

Priority

JP 18530084 A 19840906

Abstract (en)

A zinc-plated steel strip having enhanced corrosion resistance, workability, and weldability comprising a steel strip substrate, at least one surface coating layer formed on at least a portion of the substrate surface, and, optionally, at least an intermediate coating layer formed between the substrate and the surface coating layer and consisting of zinc or a zinc alloy, the surface coating layer consisting essentially of a zinc or zinc alloy matrix and fine dispersoid particles dispersed in the matrix and consisting an oxide, carbide, nitride, boride, phosphide, or sulfide of Al, Fe, Ti, Mo, Cu, Zn, Ni, Co, La, Ce, or Si.

IPC 1-7

**C25D 15/02**

IPC 8 full level

**B32B 15/01** (2006.01); **C23C 2/26** (2006.01); **C25D 15/02** (2006.01)

CPC (source: EP US)

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Citation (search report)

- [X] METAL FINISHING ABSTRACTS, vol. 18, no. 5, September/October 1976, page 254, Hampton Hill, GB; & JP-A-51 005 242 (NIPPON STEEL CORP.) 16-01-1976
- [X] METAL FINISHING ABSTRACTS, vol. 22, no. 4, July/August 1980, page 263, Hampton Hill, GB; & JP-A-54 146 228 (NIPPON STEEL CORP.) 15-11-1979
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- [X] METAL FINISHING ABSTRACTS, vol. 22, no. 6, November/December 1980, page 292, Hampton Hill, GB; O.G. POPOV et al.: "Production of two-layer zinc-chromium coatings on steel and investigation of their protective power", & R.ZH. KORR. I ZASHCH. OT. KORR. 1980, 4K336

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