

Title (en)  
COMPOSITE STRUCTURE TYPE HIGH TENSILE STRENGTH STEEL PLATE, PLATED PLATE OF COMPOSITE STRUCTURE TYPE HIGH TENSILE STRENGTH STEEL AND METHOD FOR THEIR PRODUCTION

Title (de)  
KOMPOSITSTRUKTUR-STAHPLATTE MIT HOHER ZUGFESTIGKEIT, BESCHICHTETE KOMPOSITSTRUKTUR-STAHPLATTE MIT HOHER ZUGFESTIGKEIT UND DEREN HERSTELLUNGSVERFAHREN

Title (fr)  
TOLE D'ACIER LAMINEE A FROID PRESENTANT UNE RESISTANCE ELEVEE A LA TRACTION DU TYPE STRUCTURE COMPOSITE

Publication  
**EP 1338667 A4 20050817 (EN)**

Application  
**EP 01998666 A 20011127**

Priority

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- JP 2000361273 A 20001128
- JP 2000361274 A 20001128
- JP 2001312687 A 20011010
- JP 2001312688 A 20011010

Abstract (en)  
[origin: US2003129444A1] The invention proposes a high-strength dual-phase cold rolled steel sheet having an excellent deep drawability, wherein the steel sheet has a composition comprising C: 0.01-0.08 mass %, Si: not more than 2.0 mass %, Mn: not more than 3.0 mass %, P: not more than 0.10 mass %, S: not more than 0.02 mass %, Al: 0.005-0.20 mass %, N: not more than 0.02 mass % and V: 0.01-0.5 mass %, provided that V and C satisfy a relationship of  $0.5xC/12 \leq V/51 \leq 3xC/12$ , and the remainder being Fe and inevitable impurities, and has a microstructure consisting of a ferrite phase as a primary phase and a secondary phase including martensite phase at an area ratio of not less than 1% to a whole of the microstructure and a high-strength dual-phase galvanized steel sheet comprising a galvanized coating on the above steel sheet as well as a method of producing the same.

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IPC 8 full level  
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CPC (source: EP KR US)  
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Citation (search report)

- [A] EP 0969112 A1 20000105 - NIPPON STEEL CORP [JP]
- [X] PATENT ABSTRACTS OF JAPAN vol. 1999, no. 12 29 October 1999 (1999-10-29)
- [X] PATENT ABSTRACTS OF JAPAN vol. 2000, no. 14 5 March 2001 (2001-03-05)
- [A] PATENT ABSTRACTS OF JAPAN vol. 2000, no. 07 29 September 2000 (2000-09-29)
- [A] PATENT ABSTRACTS OF JAPAN vol. 011, no. 096 (C - 412) 26 March 1987 (1987-03-26)
- [A] PATENT ABSTRACTS OF JAPAN vol. 011, no. 273 (C - 445) 4 September 1987 (1987-09-04)
- See references of WO 0244434A1

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**US 18181002 A 20020723**; AU 2411802 A 20011127; CA 2398126 A 20011127; CN 01807327 A 20011127; DE 60143907 T 20011127; EP 01998666 A 20011127; JP 0110340 W 20011127; KR 20027009698 A 20020727; TW 90129328 A 20011127