Title (en)

BAKE-HARDENABLE COLD ROLLED STEEL SHEET WITH SUPERIOR STRENGTH AND AGING RESISTANCE METHOD FOR MANUFACTURING THE COLD ROLLED STEEL SHEET

Title (de)

DURCH BAKE-HARDENING HÄRTBARES KALTGEWALZTES STAHLBLECH MIT ÜBERLEGENER FESTIGKEIT UND ALTERUNGSBESTÄNDIGKEIT UND VERFAHREN ZUR HERSTELLUNG DES KALTGEWALZTEN STAHLBLECHS

Title (fr)

FEUILLE D'ACIER LAMINEE A FROID, DURCISSABLE A LA CUISSON DOTEE D'UNE RESISTANCE SUPERIEURE ET D'UNE RESISTANCE AU VIEILLISSEMENT, ET PROCEDE DE FABRICATION DE LA FEUILLE D'ACIER LAMINEE A FROID

Publication

EP 1937853 B1 20131225 (EN)

Application

EP 06798860 A 20060922

Priority

- KR 2006003777 W 20060922
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Abstract (en)

[origin: WO2007035059A1] A bake-hardenable cold rolled steel sheet with high strength and superior aging resistance used for outer panels of an automobile body, a galvannealed steel sheet using the cold-rolled steel sheet, and a method for manufacturing the cold-rolled steel sheet are disclosed. The steel sheet comprises, by weight%, C: 0.0016 ~ 0.0025%, Si: 0.02% or less, Mn: 0.2 ~ 1.2%, P: 0.05 ~ 0.11%, S: 0.01% or less, Sol. Al: 0.08 ~ 0.12%, N: 0.0025% or less, Ti: 0 ~ 0.003%, Nb: 0.003 ~ 0.011%, Mo: 0.01 ~ 0.1%, B: 0.0005 ~ 0.0015%, the balance of Fe and other unavoidable impurities. The steel sheet has superior bake hardenability, aging resistance at room temperature, and secondary work embrittlement resistance.

IPC 8 full level

C22C 38/04 (2006.01); **C21D 8/02** (2006.01); **C21D 9/46** (2006.01); **C21D 9/56** (2006.01); **C22C 38/06** (2006.01); **C22C 38/12** (2006.01)

CPC (source: EP KR US)

C21D 8/02 (2013.01 - KR); **C21D 8/0236** (2013.01 - EP US); **C21D 9/46** (2013.01 - EP US); **C21D 9/56** (2013.01 - EP US); **C22C 38/04** (2013.01 - EP KR US); **C22C 38/06** (2013.01 - EP US); **C22C 38/12** (2013.01 - EP US)

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