

Title (en)  
DR STEEL SHEET AND PROCESS FOR MANUFACTURING THE SAME

Title (de)  
DR-STAHBLECH UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)  
TÔLE D'ACIER POUR EMBOUTISSAGE ET PROCÉDÉ DE FABRICATION DE CELLE-CI

Publication  
**EP 2050834 A4 20100929 (EN)**

Application  
**EP 07792242 A 20070809**

Priority  
• JP 2007065590 W 20070809  
• JP 2006219066 A 20060811

Abstract (en)  
[origin: EP2050834A1] This DR steel sheet includes the following steel components: C: 0.02 to 0.06 mass%, Si: equal to or less than 0.03 mass %, Mn: 0.05 to 0.5 mass%, P: equal to or less than 0.02 mass%, S: equal to or less than 0.02 mass%, Al: 0.02 to 0.10 mass%, and N: 0.008 to 0.015 mass%. The amount of solute N (N<sub>total-NasAlN</sub>) in the steel sheet containing a residual iron and inevitable impurities, is equal to or more than 0.006%; and the total stretchability in a rolling direction after aging is equal to or more than 10%, total stretchability in a sheet width direction after aging is equal to or more than 5%, and an average Lankford value after aging is equal to or less than 1.0.

IPC 8 full level  
**C22C 38/00** (2006.01); **B21B 1/22** (2006.01); **B21B 1/28** (2006.01); **B21B 3/00** (2006.01); **C21D 9/46** (2006.01); **C22C 38/06** (2006.01)

CPC (source: EP KR US)  
**C21D 8/0226** (2013.01 - KR); **C21D 8/0236** (2013.01 - KR); **C21D 9/46** (2013.01 - EP KR US); **C22C 38/001** (2013.01 - EP KR US); **C22C 38/04** (2013.01 - EP KR US); **C22C 38/06** (2013.01 - EP KR US)

Citation (search report)  
• [X] WO 2006027854 A1 20060316 - NIPPON STEEL CORP [JP], et al  
• [A] JP H07310142 A 19951128 - NIPPON KOKAN KK  
• See references of WO 2008018531A1

Cited by  
EP3476965A4; EP2650396A4; EP2671962A4; EP3138935A4; AU2015254790B2; US10415111B2; US11519059B2; US9506131B2; EP2253729B1; EP2253729B2

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**EP 07792242 A 20070809**; CN 200780019822 A 20070809; JP 2007065590 W 20070809; JP 2008528868 A 20070809; KR 20087030194 A 20081211; TW 96128989 A 20070807; US 22750507 A 20070809