

Title (en)

STEEL SHEET FOR EXTREMELY THIN CONTAINER AND METHOD FOR PRODUCTION THEREOF

Title (de)

STAHLBLECH FÜR EXTREM DÜNNEN BEHÄLTER UND ZUGEHÖRIGES HERSTELLUNGSVERFAHREN

Title (fr)

FEUILLE D'ACIER POUR RECIPIENT EXTREMEMENT MINCE ET PROCEDE DE PRODUCTION CORRESPONDANT

Publication

EP 1806420 A4 20080423 (EN)

Application

EP 04773152 A 20040909

Priority

JP 2004013493 W 20040909

Abstract (en)

[origin: EP1806420A1] This steel sheet for an ultrathin container contains, in terms of mass %, C of 0.0800% or less, N of 0.600% or less, Si of 2.0% or less, Mn of 2.0% or less, P of 0.10% or less, S of 0.05% or less, and Al of 2.0% or less. The steel sheet has a. region in which nitrides of 1 μm or less and 0.02 μm or more in diameter exist in a surface layer within 1/8 thickness of the steel sheet at the number density of 0.2 piece/μm³ or more, and satisfies the formula (A) (the number density at the 1/8 sheet thickness position of the steel sheet) > (the number density at the 1/4 sheet thickness position of the steel sheet) ... (A). Alternatively, in the steel sheet, nitrides of 1 μm or less and 0.02 μm or more in diameter satisfy the formula (B) (the number density at the 1/20 sheet thickness position of the steel sheet) / (the number density at the 1/4 sheet thickness position of the steel sheet) > 1.5 ... (B).

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [X] JP 2004218061 A 20040805 - NIPPON STEEL CORP
- [E] WO 2005056841 A1 20050623 - NIPPON STEEL CORP [JP], et al
- [E] WO 2005068667 A1 20050728 - NIPPON STEEL CORP [JP], et al
- [A] JP H073429 A 19950106 - NIPPON STEEL CORP
- [A] JP H11310829 A 19991109 - NIPPON STEEL CORP
- [A] JP 2001107189 A 20010417 - NIPPON STEEL CORP
- See references of WO 2006027854A1

Cited by

DE102015122453B4; DE102015122453A1; US2012067469A1; US9689052B2; US11578379B2

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